

|                     |                                                        |                |
|---------------------|--------------------------------------------------------|----------------|
| 6400                | <b>Subcontractor (ONLY) RAMS<br/>Approval Document</b> | <b>RENAKER</b> |
| iginator P. Hayward |                                                        |                |
| Division 01         |                                                        |                |

SUBCONTRACT RISK ASSESSMENT METHOD STATEMENT APPROVAL

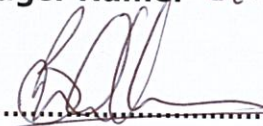
|                                                         |                                   |                   |  |
|---------------------------------------------------------|-----------------------------------|-------------------|--|
| Project Name / Address:                                 | One Port Street, Manchester       |                   |  |
| Activity Title & Reference:                             | Installation of Aluminium Windows |                   |  |
| Location: (Block / Level / Area)                        | Low rise podium block             |                   |  |
| Project Manager:                                        | Ben Cullen                        |                   |  |
| Frame Manager:<br><small>(If Applicable)</small>        |                                   |                   |  |
| Construction Manager:<br><small>(If Applicable)</small> | Tom Darlington                    |                   |  |
| Subcontractor:<br><small>(If Applicable)</small>        | GFS                               | SUB RAMS Reg No:  |  |
| Subcontract Manager:<br><small>(If Applicable)</small>  | Peter Hayward                     |                   |  |
| RAMS Writer Name:                                       | Peter Hayward                     | Tel: 07792 041256 |  |

| Reviewed By:  | Date:    | Comments:                       | Returned To: | Date: |
|---------------|----------|---------------------------------|--------------|-------|
| Colin Stewart | 28/06/24 | No comments.                    |              |       |
| Ben Cullen    | 01/07/24 | Attached as previous Rami's Rev |              |       |

Having cross referenced the check sheet overleaf I am reasonably satisfied, to the best of my knowledge; the proposals in the above Risk Assessment Method Statement (RAMS) are adequate to commence activities.

APPROVED FOR USE: .....

Project Manager Name: BEN Cullen

Signature:  .....

Date: 1/7/24

|            |            |                                                        |                |
|------------|------------|--------------------------------------------------------|----------------|
| Reference  | SMS 12.2.A | <b>Subcontractor (ONLY) RAMS<br/>Approval Document</b> | <b>RENAKER</b> |
| Originator | M Stubbs   |                                                        |                |
| Revision   | 04         |                                                        |                |

| <b>SUBCONTRACTOR (Only) RAMS APPROVAL CHECK SHEET</b> |                                                      | <b>Yes</b> | <b>No</b> | <b>N/A</b> |
|-------------------------------------------------------|------------------------------------------------------|------------|-----------|------------|
| <b>0 - Document Details:</b>                          | Project Name / Address:                              | ✓          |           |            |
|                                                       | Title; Register No; Revision:                        | ✓          |           |            |
|                                                       | RAMS Writer:                                         | ✓          |           |            |
|                                                       | Table of Contents:                                   |            |           | ✓          |
|                                                       | Project Name / Address:                              | ✓          |           |            |
| <b>1 - Scope of Assessment:</b>                       | Exact Activity Location:                             | ✓          |           |            |
|                                                       | Start / Completion Dates:                            | ✓          |           |            |
|                                                       | Hours / Night Work:                                  | ✓          |           |            |
| <b>2 – CDM Appointments:</b>                          | Further Subcontractors + Staff & Supervision levels: | ✓          |           |            |
|                                                       | Labour Levels:                                       | ✓          |           |            |
| <b>3 – Environmental:</b>                             | Material Requirements:                               | ✓          |           |            |
|                                                       | Environmental Noise / Dust / / Lighting / Vibration: | ✓          |           |            |
|                                                       | Waste / CoSHH Controls:                              | ✓          |           |            |
| <b>4 – Traffic Management:</b>                        | Activity Access Route:                               | ✓          |           |            |
|                                                       | Interfaces with Others:                              |            |           | ✓          |
| <b>5 – Fire &amp; Emergency:</b>                      | Fire / Hot Works:                                    |            |           | ✓          |
|                                                       | Emergency Procedures:                                | ✓          |           |            |
| <b>6 – Lifting &amp; Plant</b>                        | Lifting Procedures:                                  | ✓          |           |            |
|                                                       | Plant Requirements:                                  | ✓          |           |            |
|                                                       | Electrical Requirements:                             |            |           | ✓          |
| <b>7 – Temporary Works &amp; Work at Height:</b>      | Temporary Works Requirements:                        | ✓          |           |            |
|                                                       | Access to Height Requirements:                       | ✓          |           |            |
|                                                       | Work at Height Equipment:                            | ✓          |           |            |
|                                                       | Work at Height Rescue:                               | ✓          |           |            |
| <b>8 – Inspection</b>                                 | Monitoring:                                          | ✓          |           |            |
|                                                       | House Keeping:                                       | ✓          |           |            |
| <b>9 – Competency</b>                                 | Competency Requirements:                             | ✓          |           |            |
|                                                       | Further Training / TBTs:                             | ✓          |           |            |
| <b>10 – Welfare and Occupational Health:</b>          | CoSHH assessments / MSDS for chemicals being used    | ✓          |           |            |
|                                                       | CoSHH Controls:                                      | ✓          |           |            |
|                                                       | Personal Respiratory Controls:                       |            |           | ✓          |
|                                                       | Personal Noise Controls:                             |            |           | ✓          |
|                                                       | Personal Vibration Controls:                         |            |           | ✓          |
|                                                       | Manual Handling Controls:                            | ✓          |           |            |
|                                                       | Personal Protective Equipment:                       | ✓          |           |            |
|                                                       | Welfare Arrangements:                                | ✓          |           |            |
| <b>11 – Incidents</b>                                 | First Aid Requirements:                              | ✓          |           |            |
|                                                       | Emergency Contacts:                                  | ✓          |           |            |
| <b>12 – Risk Assessment Method Statement (RAMS)</b>   | Public Interface:                                    |            |           | ✓          |
|                                                       | Security arrangements:                               |            |           | ✓          |
|                                                       | Elements (Time of Year, rain, snow, wind, low light) |            |           | ✓          |
|                                                       | Permits Requirements:                                | ✓          |           |            |
|                                                       | <b>Hazard Identification &amp; Control Measures:</b> | ✓          |           |            |
|                                                       | <b>Sequence &amp; Methodology (ALL Activities):</b>  | ✓          |           |            |



|            |            |                                                        |                |
|------------|------------|--------------------------------------------------------|----------------|
| Reference  | 6400       | <b>Subcontractor (ONLY) RAMS<br/>Approval Document</b> | <b>RENAKER</b> |
| Originator | P. Hayward |                                                        |                |
| Revision   | 01         |                                                        |                |

## SUBCONTRACT RISK ASSESSMENT METHOD STATEMENT APPROVAL

|                                          |                                   |                   |  |
|------------------------------------------|-----------------------------------|-------------------|--|
| Project Name / Address:                  | One Port Street, Manchester       |                   |  |
| Activity Title & Reference:              | Installation of Aluminium Windows |                   |  |
| Location: (Block / Level / Area)         | Low rise podium block             |                   |  |
| Project Manager:                         | Ben Cullen                        |                   |  |
| Frame Manager:<br>(If Applicable)        |                                   |                   |  |
| Construction Manager:<br>(If Applicable) | Tom Darlington                    |                   |  |
| Subcontractor:<br>(If Applicable)        | GFS                               | SUB RAMS Reg No:  |  |
| Subcontract Manager:<br>(If Applicable)  | Peter Hayward                     |                   |  |
| RAMS Writer Name:                        | Peter Hayward                     | Tel: 07792 041256 |  |

| Reviewed By:  | Date:    | Comments:    | Returned To: | Date: |
|---------------|----------|--------------|--------------|-------|
| Colin Stewart | 28/06/24 | No comments. |              |       |

BC

- Setting out to be agreed Prior to work starting.
- Attached, 80kg window has are we lifting?
- IPAF TRAINING TO BE CARRIED OUT BY BFT. CS to Book in.
- COSHH ITEMS for Monoblocks.

CS

1/7/24.

Having cross referenced the check sheet overleaf I am reasonably satisfied, to the best of my knowledge; the proposals in the above Risk Assessment Method Statement (RAMS) are adequate to commence activities.

**APPROVED FOR USE:** .....

**Project Manager Name:**

**Signature:** .....

**Date:**



|            |            |                                                        |                |
|------------|------------|--------------------------------------------------------|----------------|
| Reference  | SMS 12.2.A | <b>Subcontractor (ONLY) RAMS<br/>Approval Document</b> | <b>RENAKER</b> |
| Originator | M Stubbs   |                                                        |                |
| Revision   | 04         |                                                        |                |

| <b>SUBCONTRACTOR (Only) RAMS APPROVAL CHECK SHEET</b> |                                                      | <b>Yes</b> | <b>No</b> | <b>N/A</b> |
|-------------------------------------------------------|------------------------------------------------------|------------|-----------|------------|
| <b>0 - Document Details:</b>                          | Project Name / Address:                              | ✓          |           |            |
|                                                       | Title; Register No; Revision:                        | ✓          |           |            |
|                                                       | RAMS Writer:                                         | ✓          |           |            |
|                                                       | Table of Contents:                                   |            |           | ✓          |
|                                                       | Project Name / Address:                              | ✓          |           |            |
| <b>1 - Scope of Assessment:</b>                       | Exact Activity Location:                             | ✓          |           |            |
|                                                       | Start / Completion Dates:                            | ✓          |           |            |
|                                                       | Hours / Night Work:                                  | ✓          |           |            |
| <b>2 – CDM Appointments:</b>                          | Further Subcontractors + Staff & Supervision levels: | ✓          |           |            |
|                                                       | Labour Levels:                                       | ✓          |           |            |
| <b>3 – Environmental:</b>                             | Material Requirements:                               | ✓          |           |            |
|                                                       | Environmental Noise / Dust / / Lighting / Vibration: | ✓          |           |            |
|                                                       | Waste / CoSHH Controls:                              | ✓          |           |            |
| <b>4 – Traffic Management:</b>                        | Activity Access Route:                               | ✓          |           |            |
|                                                       | Interfaces with Others:                              |            |           | ✓          |
| <b>5 – Fire &amp; Emergency:</b>                      | Fire / Hot Works:                                    |            |           | ✓          |
|                                                       | Emergency Procedures:                                | ✓          |           |            |
| <b>6 – Lifting &amp; Plant</b>                        | Lifting Procedures:                                  | ✓          |           |            |
|                                                       | Plant Requirements:                                  | ✓          |           |            |
|                                                       | Electrical Requirements:                             |            |           | ✓          |
| <b>7 – Temporary Works &amp; Work at Height:</b>      | Temporary Works Requirements:                        | ✓          |           |            |
|                                                       | Access to Height Requirements:                       | ✓          |           |            |
|                                                       | Work at Height Equipment:                            | ✓          |           |            |
|                                                       | Work at Height Rescue:                               | ✓          |           |            |
| <b>8 – Inspection</b>                                 | Monitoring:                                          | ✓          |           |            |
|                                                       | House Keeping:                                       | ✓          |           |            |
| <b>9 – Competency</b>                                 | Competency Requirements:                             | ✓          |           |            |
|                                                       | Further Training / TBTs:                             | ✓          |           |            |
| <b>10 – Welfare and Occupational Health:</b>          | CoSHH assessments / MSDS for chemicals being used    | ✓          |           |            |
|                                                       | CoSHH Controls:                                      | ✓          |           |            |
|                                                       | Personal Respiratory Controls:                       |            |           | ✓          |
|                                                       | Personal Noise Controls:                             |            |           | ✓          |
|                                                       | Personal Vibration Controls:                         |            |           | ✓          |
|                                                       | Manual Handling Controls:                            | ✓          |           |            |
|                                                       | Personal Protective Equipment:                       | ✓          |           |            |
|                                                       | Welfare Arrangements:                                | ✓          |           |            |
| <b>11 – Incidents</b>                                 | First Aid Requirements:                              | ✓          |           |            |
|                                                       | Emergency Contacts:                                  | ✓          |           |            |
| <b>12 – Risk Assessment Method Statement (RAMS)</b>   | Public Interface:                                    |            |           | ✓          |
|                                                       | Security arrangements:                               |            |           | ✓          |
|                                                       | Elements (Time of Year, rain, snow, wind, low light) |            |           | ✓          |
|                                                       | Permits Requirements:                                | ✓          |           |            |
|                                                       | <b>Hazard Identification &amp; Control Measures:</b> | ✓          |           |            |
|                                                       | <b>Sequence &amp; Methodology (ALL Activities):</b>  | ✓          |           |            |



|                      |                                                   |                      |               |
|----------------------|---------------------------------------------------|----------------------|---------------|
| <b>Title</b>         | <b>METHOD STATEMENT</b><br>Renekar<br>Port Street |                      |               |
| <b>Contract Ref.</b> | 6400                                              | <b>Document Ref.</b> | Rev C         |
| <b>Date.</b>         | 01/07/2024                                        | <b>Author.</b>       | Peter Hayward |

|                                       |                                                                                                        |                          |            |
|---------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------|------------|
| <b>Location of Work</b>               | One Port Street – Low rise podium block                                                                |                          |            |
| <b>Description of the Works</b>       | Design, supply and install aluminum windows, doors and curtain wall                                    |                          |            |
| <b>Start Date</b>                     | 01/07/2024                                                                                             | <b>Proposed End Date</b> | 31/08/2025 |
| <b>Nominated Manager</b>              | Peter Hayward                                                                                          |                          |            |
| <b>No of Work Force Trade / Title</b> | Maximum 10 No operatives                                                                               |                          |            |
| <b>Distribution M. S. Briefing</b>    | To Renekar management and all GFS Operatives<br>To all Operatives before the commencement of any works |                          |            |

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1.</b> | <p><b><u>Safety</u></b></p> <p>This method statement is to be read in conjunction with COSHH RA, Site RA, and Manual Handling Risk Assessment which recognises the risks associated with this activity and highlights the measures to be undertaken to ensure a safe system of work is employed. All operatives involved will be briefed on this method statement and the associated risk assessments.</p> <p>Any breach of Site rules by any GFS employee or sub contractor working on behalf of GFS must be reported to the GFS Management team at the earliest opportunity.</p> <p><i><u>REMEMBER EACH INDIVIDUAL HAS A LEGAL RESPONSIBILITY FOR HEALTH AND SAFETY</u></i></p> |
| <b>2.</b> | <p><b>Hazards</b></p> <ul style="list-style-type: none"> <li>• See Project Specific Risk Assessment attached.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>3.</b> | <p><b>Risk assessments</b></p> <ul style="list-style-type: none"> <li>• See Project Specific Risk Assessment attached.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>4.</b> | <p><b>Materials</b></p> <ul style="list-style-type: none"> <li>• Aluminium window frames.</li> <li>• Double glazed units to all the above. (not more than 80 kg)</li> <li>• EPDM &amp; paste adhesive.</li> <li>• All required brackets, spigots &amp; fixings as detailed in the GFS construction drawings.</li> </ul>                                                                                                                                                                                                                                                                                                                                                           |
| <b>5.</b> | <p><b>Training Requirements</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <ul style="list-style-type: none"> <li>• Only suitably trained &amp; competent personnel to be allowed on site.</li> <li>• All personnel to have a current up to date CSCS card.</li> <li>• All personnel will have read and understood the Method Statement and Risk Assessments prior to commencing work on the project.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 6. | <b>Plant and Equipment</b> <ul style="list-style-type: none"> <li>• MEWP's</li> <li>• General Hand Tools.</li> <li>• Battery Power Tools.</li> <li>• Mast Climbers</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 7. | <b>Sequence of Work</b> <ul style="list-style-type: none"> <li>• Works will be carried out in accordance with the agreed Programme.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 8. | <b>Method of Work</b> <p><b>All operatives to report to the site office prior to commencing any works for introductions and site induction</b></p> <p><u>Transport and Unloading</u></p> <ul style="list-style-type: none"> <li>• All Aluminium will be transported via a GFS vehicles or via a GFS approved Haulage Company (7.5 tonne flatbed). Glass will be delivered direct from the supplier on an Articulated Lorry.</li> <li>• Once delivered to the agreed unloading area all materials will be conveyed to the hoist area using fork lift truck via on site tele-handler by RBL.</li> <li>• <b>Aluminium</b> will be man handled from the 'A' frames and put onto trollies they will then go into the hoist to the relevant floor and dispersed to the designated area. W01 frames 22kg Loggia frames 30kg</li> <li>• <b>Glass</b> will be delivered to site on 'A' frames that are suitable for the hoist, from the hoist they will be transported to the relevant areas using an electric pallet truck by GFS.</li> <li>• Materials to be stored safely in work area until required.</li> </ul> <p><u>Installation of Aluminium Windows</u></p> <ul style="list-style-type: none"> <li>• All Installation works to be carried out by GFS employees or their nominated sub-contractors.</li> <li>• Operatives to check the size of the windows against the prepared openings prior to starting any works.</li> <li>• Use electric pallet trucks to move glass units into the relevant rooms and store safely.</li> <li>• Use trollies to move the new frames to the work area and store safely.</li> <li>• Fit EPDM to the perimeter of the frame.</li> <li>• Fit associated flashings to the window as per construction drawing.</li> <li>• Before removing the K-Guard panels from the slab edge GFS operatives are to establish an internal exclusion zone using K-Guard panels &amp; feet supplied by RBL.</li> <li>• Operatives that are installing the windows to ensure that all tools are</li> </ul> |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p>tethered prior to removing the 'K' Guard edge protection.</p> <ul style="list-style-type: none"> <li>• The scaffold handrails to remain in position at all times.</li> <li>• Scissorsafe lifeline system to be fitted prior to any works commencing.</li> <li>• Fitters with harness &amp; lanyard connected to the lifeline to remove the 'K' Guard</li> <li>• The window frame to be tethered prior to lifting into position using a tool tether post (Rapid) supplied by Renaker.</li> <li>• Lift the frame into the opening and hold in the correct position with packers as per construction drawing.</li> <li>• Line level and plumb the frame within the opening, set out to Grid as per agreed construction drawings.</li> <li>• Set frame at correct position in and out within the formed reveal.</li> <li>• Secure using a direct fix or strap fixing method, using the appropriate fixing as detailed in the GFS construction drawings.</li> <li>• Remove glazing beads and put in place bridging/glass loading packers.</li> <li>• Lift the glass units into position within the frame and pack accordingly so positioning the fixed lights correctly.</li> <li>• Re fit glazing beads and all necessary wedge gaskets to hold the glazing securely within the frame.</li> <li>• External works to be undertaken by fully competent personnel using a mast-climber or Scissor lift (all Operatives to have IPAF) Initial training will be by BFT and then (IPAF) in 2 weeks.</li> <li>• Fix/paste EPDM to the external boarding ensuring a neat and even application.</li> <li>• Remove glass stickers and clean down units to both sides.</li> <li>• At this point a joint inspection by GFS &amp; Renaker to ensure acceptance of the Product &amp; Installation.</li> <li>• All glass internal &amp; external to be sprayed with protectapeel to protect both surfaces.</li> <li>• Clean the area of works internal &amp; external leaving areas tidy.</li> <li>• Ensure working area is maintained in a clean and safe manner at all times all rubbish to put into the skip on site supplied by Renaker, there will be bins on each floor.</li> <li>•</li> </ul> |
| 9  | <p><b>Personal Protective Equipment</b></p> <p>All operatives involved with this operation will wear as a minimum the following mandatory personal protective equipment.</p> <p><b>Task Specific</b></p> <ul style="list-style-type: none"> <li>• Gloves to EN388</li> <li>• Safety Glasses to EN166 F</li> <li>• <b>Mandatory</b></li> <li>• Hi-Viz Vest Class 2 EN 471</li> <li>• Safety footwear EN20345</li> <li>• Hard Hat to EN 397</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 10 | <p><b>Working at Height</b></p> <ul style="list-style-type: none"> <li>• MEWP's scissor lift operated by suitably trained operatives (IPAF) MEWP to have in date Certificate and be checked daily and prior to use – Machine supplied by Renaker.</li> <li>• Mastclimber operated by suitably trained operatives.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



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|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>11</b> | <b>Lifting Equipment</b> <ul style="list-style-type: none"> <li>• The appropriate Manual Lifting Aids to be used as and when necessary</li> <li>• Glazing for the Loggia windows a winlet robot will be used (by trained personnel).</li> </ul>                                                                                                                                                                                                                                                                                                                                                            |
| <b>12</b> | <b>Permits to Work</b> <ul style="list-style-type: none"> <li>• No permit to work required</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>13</b> | <b>Access and Lighting</b> <ul style="list-style-type: none"> <li>• MEWP's operated by suitably trained operatives (IPAF) with an up to date fit to work certificate.</li> <li>• Mastclimber operated by suitably trained operatives.</li> <li>• All task lighting provided by GFS</li> </ul>                                                                                                                                                                                                                                                                                                              |
| <b>14</b> | <b>Housekeeping</b> <ul style="list-style-type: none"> <li>• All operatives will maintain a clean and safe working area at all times.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>15</b> | <b>Noise and Vibration</b> <ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>16</b> | <b>Traffic Management</b> <ul style="list-style-type: none"> <li>• All traffic movements to conform to the site traffic management plan.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>17</b> | <b>Protection of others</b> <ul style="list-style-type: none"> <li>• Exclusion zones to be implemented in each work area prior to any work commencing and also around the MEWP when being operated.</li> <li>• Any non GFS site operatives needing to access the working areas must advise the GFS Supervisor prior to entering the safe zone.</li> <li>• Co-ordination of exclusion zones for working at height to be agreed with RBL &amp; other trades at the DABs meetings.</li> </ul>                                                                                                                 |
| <b>18</b> | <b>Health and Welfare Arrangements</b> <ul style="list-style-type: none"> <li>• Provided on site by Principal Contractor</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>19</b> | <b>Emergency Arrangements</b> <ul style="list-style-type: none"> <li>• All operatives to be made aware of emergency procedures during site induction prior to commencing on site, MEWP Rescue Plan see attached.</li> <li>• All Operatives working on the Mast Climbers to have familiarisation training to lower the mast climber in the event of loss of power – no lone working on mast climbers.</li> <li>• All personnel will be made aware of the specific company requirements as the information is contained within the method statement and risk assessments relevant to these works.</li> </ul> |

|           |                                                                                                                                                           |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | <ul style="list-style-type: none"> <li>Emergency number and contact - Paul Carmichael 07790 618211<br/>- Peter Hayward 07792 041256</li> </ul>            |
| <b>20</b> | <b>First Aid</b> <ul style="list-style-type: none"> <li>Facilities provided by the Principal Contractor - First aid box in Renaker Site Office</li> </ul> |
| <b>21</b> | <b>C.O.S.H.H.</b> <ul style="list-style-type: none"> <li>COSHH Risk assessment attached to this method statement</li> </ul>                               |

| Comments                                                                                                                                                        |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Ref No                                                                                                                                                          | Information required |
|                                                                                                                                                                 |                      |
|                                                                                                                                                                 |                      |
|                                                                                                                                                                 |                      |
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|                                                                                                                                                                 |                      |
|                                                                                                                                                                 |                      |
|                                                                                                                                                                 |                      |
| <b>Sign Off Record</b>                                                                                                                                          |                      |
| I confirm that this document has provided suitable and sufficient information for works to commence.                                                            |                      |
| Signed .....                                                                                                                                                    | Print Name .....     |
| Position .....                                                                                                                                                  | Dated .....          |
| I confirm that this document has not provided suitable and sufficient information for works to commence please re-submit with additional information requested. |                      |
| Signed .....                                                                                                                                                    | Print Name .....     |
| Position .....                                                                                                                                                  | Dated .....          |





# Glass and Framing Solutions Ltd

## General on Site Risk Assessment

### Reneker

### Port St, Manchester

#### ACTIVITY

Fitting aluminium windows and flashings

#### PERSONS AT RISK

GFS Operatives; Other Contractors; Site Visitors;

Assess the level of Risk for each identified hazard in terms of Likelihood and Severity where Risk=Likelihood X Severity.

(Level 1=Insignificant Risk; Level 2 to 3=Low Risk; Level 4 to 8=Medium Risk; Level 9 to 16=High Risk)

Likelihood Level: 1=Unlikely; 2=Possible; 3=Likely; 4=Highly Likely

Severity Level: 1=Minor Injury; 2=Significant Injury (e.g. attendance at hospital but not detained); 3=Major Injury; 4=Fatality

| Hazard                                                                                      | Likelihood<br>(L) | Severity<br>(S) | Risk<br>Level<br>(LxS) | Control Measures                                                                                                         | Residual Risk<br>(LxS after<br>application of<br>Control Measures) | Responsible<br>Person |
|---------------------------------------------------------------------------------------------|-------------------|-----------------|------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------|
| Contact with moving machinery such as cranes, mobile access equipment, fork lift trucks etc | 2                 | 3               | 6                      | Working areas are exclusion zones with the use of barriers / barrier tape and works are planned and communicated in DABs | 3                                                                  | Installation Manager  |

| Hazard                                                                                                                       | Likelihood (L) | Severity (S) | Risk Level (LxS) | Control Measures                                                                                                                                                                                                                                            | Residual Risk (LxS after application of Control Measures) | Responsible Person   |
|------------------------------------------------------------------------------------------------------------------------------|----------------|--------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------|
| Struck by moving/flying/falling objects such as long materials, glazed units, debris from drilling or cutting activities etc | 2              | 3            | 6                | Working areas are exclusion zones with the use of barriers / barrier tape and works are planned and communicated in DABs                                                                                                                                    | 3                                                         | Installation Manager |
| Lifting and Handling Operations                                                                                              | 3              | 3            | 9                | <b>See detailed Manual Handling Risk Assessment</b>                                                                                                                                                                                                         | 3                                                         | Installation Manager |
| Slips, Trips and Falls (General)                                                                                             | 3              | 3            | 9                | Good Housekeeping, clear signage, trained, competent and experienced personnel, equipped with appropriate PPE (high visibility vest, hard hat, safety footwear, safety goggles, gloves and if necessary, ear protection), appropriate levels of supervision | 3                                                         | Installation Manager |
| Falls from Height                                                                                                            | 4              | 4            | 16               | <b>Appropriate use of MEWP's where working at height is necessary. To be operated by appropriately trained and competent persons (IPAF)</b>                                                                                                                 | 4                                                         | Installation Manager |
| Trapped by something collapsing or overturning                                                                               | 2              | 4            | 8                | Not lifting heavy loads and there is no lone working                                                                                                                                                                                                        | 4                                                         | Installation Manager |
| Exposure to Harmful Substances                                                                                               | 2              | 2            | 4                | <b>See Specific Control of Substances Hazardous to Health Risk Assessment</b>                                                                                                                                                                               | 2                                                         | Installation Manager |
| Exposure to Noise and Vibration                                                                                              | 2              | 2            | 4                | Limited use of hand held tools, selection of low level noise and vibration emitting                                                                                                                                                                         | 2                                                         | Installation Manager |

|                                      |   |   |    |  |                                                                                                                                                                                                                                                                                                                               |   |                      |
|--------------------------------------|---|---|----|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------|
|                                      |   |   |    |  | tools where possible, tools adequately maintained. Trained, competent and experienced personnel, equipped with appropriate PPE (high visibility vest, hard hat, safety footwear, safety goggles, gloves and if necessary, ear protection), appropriate levels of monitoring and supervision. HAVs submitted weekly to Renaker |   |                      |
| Exposure to Fire, Heat and Explosion | 3 | 4 | 12 |  | Site Induction, appropriate Emergency procedures communicated to all site operatives and regularly rehearsed. Clear signage. No smoking rules, safe storage of flammable materials, good housekeeping, adequate storage and safe disposal of combustible waste                                                                | 4 | Installation Manager |
| Exposure to Electricity              | 2 | 4 | 8  |  | Use of battery operated hand tools. All power tools will be PAT tested and subject to pre-use inspection by the user. (PAT testing records must be provided to the Principal Contractor prior to use on site)<br>110v power supply will be used on site. Trained, competent and experienced personnel.                        | 4 | Installation Manager |
| Lacerations from handling glass      | 2 | 3 | 6  |  | Edges of glass are arised. Appropriate glass suction pads used to prevent, as far as reasonably practicable, glass venting. Trained, competent and experienced                                                                                                                                                                | 3 | Installation Manager |



|  |  |  |  |                                                                                                                              |  |  |
|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------|--|--|
|  |  |  |  | personnel, equipped with appropriate PPE<br>(high visibility vest, hard hat, safety<br>footwear, safety goggles and gloves), |  |  |
|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------|--|--|

The highest level of Residual Risk associated with this activity, following application of the identified Control Measures, is 4 which is  
**MEDIUM**

Signed: .....

Position:.....

Name:.....

Date:.....

## RISK ASSESSMENT RECORD

|                                          |                                                                             |  |  |  |  |
|------------------------------------------|-----------------------------------------------------------------------------|--|--|--|--|
| <b>HAZARD/WORK<br/>ACTIVITY ASSESSED</b> | WORKING AT HEIGHT – Fitting aluminium window frames MEWP's & Mast Climbers. |  |  |  |  |
| <b>LOCATION</b>                          | Reneker – Port Street                                                       |  |  |  |  |

**H = HIGH RISK    M = MEDIUM RISK    L = LOW RISK    I = INSIGNIFICANT**  
 (Place a cross X in the appropriate box)

| SIGNIFICANT RISKS               | H | M | L | I | WHO MAY BE HARMED<br><small>(Mark with a cross)</small>                                                                                                                                                                                                        |
|---------------------------------|---|---|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1, Falls of persons             |   |   | X |   | <b>EMPLOYEES</b> <span style="float: right;">X</span><br><br><b>SUBCONTRACTORS</b> <span style="float: right;">X</span><br><br><b>OFFICIAL VISITORS</b> <span style="float: right;">X</span><br><br><b>GENERAL PUBLIC</b> <span style="float: right;">X</span> |
| 2, Falls of materials           |   |   | X |   |                                                                                                                                                                                                                                                                |
| 3, Falls of tools and equipment |   | X |   |   |                                                                                                                                                                                                                                                                |
| 4, Working from a Mast-Climber  |   | X |   |   |                                                                                                                                                                                                                                                                |
| 5, Working from a MEWP          |   |   | X |   |                                                                                                                                                                                                                                                                |
| 6,                              |   |   |   |   |                                                                                                                                                                                                                                                                |
| 7,                              |   |   |   |   |                                                                                                                                                                                                                                                                |
| 8,                              |   |   |   |   |                                                                                                                                                                                                                                                                |
| 9,                              |   |   |   |   |                                                                                                                                                                                                                                                                |
| 10,                             |   |   |   |   |                                                                                                                                                                                                                                                                |

**CONTROL MEASURES**

1, Ensure safe means of access and egress.  
 2, All equipment is provided and maintained to the required legal and other standards.  
 5, MEWP's to be operated by suitably trained and competent operatives (IPAF)  
 6, MEWP's to be checked by operatives before every use.  
 5, Mast-Climbers to be operated by suitably trained and competent operatives  
 6, Mast-Climbers to be checked by operatives before every use.  
 7, Erect barriers around the work area to warn of operatives working at height.  
 9, All equipment used will be checked to ensure it is in good working order and the correct specification.  
 10, Work will be effectively monitored to ensure appropriate precautions are in place at all times.  
 11, Hand tools & material should be secured and prevented from falling to ground, by the use of tool tethers.

**INFORMATION, INSTRUCTION AND TRAINING**

All operatives are suitably trained and experienced in working at height.  
 Any operative operating MEWP's will have IPAF Certification.

**PERSONAL PROTECTIVE EQUIPMENT (To be supplied)**

**BUT REMEMBER PPE IS ALWAYS A LAST RESORT!**

|                                                                                                                                                                 |                                                                            |                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------|
| <b>PPE:</b><br>SAFETY HELMET: - YES<br>SAFETY BOOTS: - YES<br>Hi-Viz: - YES<br>SAFETY GLASSES/GOGGLES: - As Rqd<br>GLOVES: - As Rqd<br>EAR DEFENDERS: - As Rqd. | <b>OTHER:</b><br>SAFETY HARNESS: - Whilst working from the internal faces. | <b>RESPIRATORY PROTECTION:</b><br>NO |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------|



**Glass and Framing Solutions Ltd**  
**Manual Handling on Site**  
**Risk Assessment**  
**Reneker**  
**Port St - Manchester**

**TASK**

Fitting aluminium windows.

**LOAD**

Aluminium frames, Double glazed units.

**SIZE/WEIGHT**

Not more than 80kg

**PERSONS AT RISK**

GFS Operatives; Other Contractors; Site Visitors.

**MANDATORY PPE**

Hi-Viz Vest Class 2 EN 471, Safety footwear EN20345, Hard Hat to EN 397

**Task Specific**

Gloves to EN388, Safety Glasses to EN166 F

**Assess the level of Risk for each question in terms of Likelihood and Severity where Risk=Likelihood X Severity.**  
**(Level 1=Insignificant Risk; Level 2 to 3=Low Risk; Level 4 to 8=Medium Risk; Level 9 to 16=High Risk)**

**Likelihood Level: 1=Unlikely; 2=Possible; 3=Likely; 4=Highly Likely**

**Severity Level: 1=Minor Injury; 2=Significant Injury (e.g. attendance at hospital but not detained); 3=Major Injury; 4=Fatality**



| Questions to Consider                    | Likelihood (L) | Severity (S) | Risk Level (LxS) | Control Measures                                 | Residual Risk Level (LxS following application of Control Measures) | Responsible Person |
|------------------------------------------|----------------|--------------|------------------|--------------------------------------------------|---------------------------------------------------------------------|--------------------|
| <b>The Task – Does it Involve?</b>       |                |              |                  |                                                  |                                                                     |                    |
| Holding load away from trunk of the body | 1              | 2            | 2                | Experience /training /TILE/use of mechanical aid | 2                                                                   | Supervisor         |
| Twisting and turning                     | 1              | 2            | 2                | Experience /training/ use of mechanical aid      | 2                                                                   | Supervisor         |
| Stooping                                 | 1              | 2            | 2                | Experience /training/ use of mechanical aid      | 2                                                                   | Supervisor         |
| Reaching Upwards                         | 2              | 2            | 4                | Experience /training/ use of mechanical aid      | 2                                                                   | Supervisor         |
| Carrying further than 10 m               | 2              | 2            | 4                | Experience /training/use MH aid                  | 2                                                                   | Supervisor         |
| Strenuous pushing or pulling             | 1              | 2            | 2                | Experience /training/use MH aid                  | 2                                                                   | Supervisor         |
| Unpredictable load movement              | 1              | 2            | 2                | Experience /training/ use of mechanical aid      | 2                                                                   | Supervisor         |
| Repetitive Handling                      | 1              | 1            | 1                | Experience /training/ plenty of                  | 1                                                                   | Supervisor         |
| Long periods of Lifting                  | 1              | 1            | 1                | Experience /training/ use of mechanical aid      | 1                                                                   | Supervisor         |
| Insufficient rest or recovery            | 1              | 2            | 2                | Company rules will not allow this to happen      | 2                                                                   | Supervisor         |
| Work rate imposed by a process           | 1              | 1            | 1                | Experience /training/                            | 1                                                                   | Supervisor         |
| More than one person to do it            | 1              | 1            | 1                | Experience /training/                            | 1                                                                   | Supervisor         |
| <b>The Load – Does it have any</b>       |                |              |                  |                                                  |                                                                     |                    |

| of these characteristics                     |   |   |   |                                                                      |   |  |            |
|----------------------------------------------|---|---|---|----------------------------------------------------------------------|---|--|------------|
| Greater than 25 kilograms                    | 3 | 3 | 9 | Experience/training/individual capability/Team lifting used/MH aids  | 3 |  | Supervisor |
| Bulky or Unwieldy                            | 2 | 2 | 4 | Experience /training/ use of mechanical aids                         | 2 |  | Supervisor |
| Difficult to Grasp                           | 3 | 2 | 6 | Experience /training/MH aids                                         | 2 |  | Supervisor |
| Interferes with vision                       | 1 | 1 | 1 | Experience /training/                                                | 1 |  | Supervisor |
| Unstable/Difficult to Control                | 1 | 1 | 1 | Experience /training/                                                | 1 |  | Supervisor |
| Offset Centre of Gravity                     | 1 | 2 | 2 | Experience /training/                                                | 2 |  | Supervisor |
| Intrinsically Harmful                        | 3 | 3 | 9 | Experience /training/individual capability/Team lifting used/MH aids | 3 |  | Supervisor |
| Contents likely to shift                     | 1 | 1 | 1 | Experience /training/                                                | 1 |  | Supervisor |
| Lack of Rigidity                             | 1 | 1 | 1 | Experience /training/                                                | 1 |  | Supervisor |
| Sharp Edges                                  | 1 | 1 | 1 | Experience /training/                                                | 1 |  | Supervisor |
| Working Environment – Does it have?          |   |   |   | Experience /training/                                                |   |  | Supervisor |
| Restricted Headroom                          | 1 | 2 | 2 | Experience /training/                                                | 2 |  | Supervisor |
| Constricted Working Area                     | 2 | 2 | 4 | Experience /training/                                                | 2 |  | Supervisor |
| Other Obstructions                           | 4 | 2 | 8 | Experience /training/Use of barriers, signage, banks man etc.        | 2 |  | Supervisor |
| Uneven or unstable floor                     | 2 | 2 | 4 | Experience /training/                                                | 2 |  | Supervisor |
| Wet or Slippery Surfaces                     | 1 | 2 | 2 | Experience /training/                                                | 2 |  | Supervisor |
| Involve using steps or ladders               | 3 | 3 | 9 | Experience /training/                                                | 3 |  | Supervisor |
| Extremes of Temperature                      | 1 | 2 | 2 | Experience /training/                                                | 2 |  | Supervisor |
| Strong air movement                          | 2 | 2 | 4 | Experience /training/                                                | 2 |  | Supervisor |
| Poor Lighting                                | 2 | 2 | 4 | Experience /training/                                                | 2 |  | Supervisor |
| Glare or Dazzle                              | 1 | 1 | 1 | Experience /training/                                                | 1 |  | Supervisor |
| Individual Capability –Does the job require? |   |   |   |                                                                      |   |  |            |
| Above Average Strength or                    | 2 | 2 | 4 | Experience /training/                                                | 2 |  | Supervisor |



# COSHH ASSESMENT

## Reneker

Port St, Manchester

### Glass and Framing Solutions Ltd

| What are the Hazards?                                 | Who might be harmed and How?                                                                                                                                                                                                     | What are you already doing?                                                                                                                                                                                                                                                                                                                                         | What further action is necessary?                                                                                                                                                                                                                                                 | Action by who?         | Action by when? | Done |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|------|
| Use of ARBOSIL 1096 Low Modulus Silicone Sealant      | Operatives – contact with eyes may cause temporary discomfort.<br>Skin contact may cause an allergic reaction. Vapours during curing, if inhaled may cause dizziness.<br>Swallowing large amounts may cause digestive discomfort | <ul style="list-style-type: none"><li>• Providing operatives with information and instruction as to safe use</li><li>• Providing appropriate PPE in the form of eye protection.</li><li>• Product only used in well ventilated areas</li><li>• Appropriate First Aid facilities are available</li></ul>                                                             | <ul style="list-style-type: none"><li>• Ongoing supervision and monitoring by team leaders and managers</li><li>• Task specific PPE<br/>Gloves to EN388<br/>Safety Glasses to EN166 F<br/>Hi-Viz Vest Class 2 EN 471<br/>Safety footwear EN20345<br/>Hard Hat to EN 397</li></ul> | Team leaders/ managers | Ongoing         | -    |
| Using Construction Silicone                           | Operatives – Irritating to eyes and skin                                                                                                                                                                                         | <ul style="list-style-type: none"><li>• Providing operatives with information and instruction as to safe use</li><li>• Providing appropriate PPE in the form of impervious gloves, eye protection (tightly sealed safety glasses).</li><li>• Product only used in well ventilated areas</li><li>• Appropriate First Aid facilities are available</li></ul>          | <ul style="list-style-type: none"><li>• Ongoing supervision and monitoring by team leaders and managers</li><li>• Task specific PPE<br/>Gloves to EN388<br/>Safety Glasses to EN166 F<br/>Hi-Viz Vest Class 2 EN 471<br/>Safety footwear EN20345<br/>Hard Hat to EN 397</li></ul> | Team leaders/ managers | Ongoing         | -    |
| Use of Stancem ltd Ready to use Glass Cleaner         | Operatives – Harmful by inhalation, skin contact and ingestion. Possible irreversible effects.<br>Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact.                                      | <ul style="list-style-type: none"><li>• Providing operatives with information and instruction as to safe use</li><li>• Providing appropriate PPE including impervious gloves, face mask and eye protection (tightly sealed safety glasses).</li><li>• Product only used in well ventilated areas</li><li>• Appropriate First Aid facilities are available</li></ul> | <ul style="list-style-type: none"><li>• Ongoing supervision and monitoring by team leaders and managers</li><li>• Task specific PPE<br/>Gloves to EN388<br/>Safety Glasses to EN166 F<br/>Hi-Viz Vest Class 2 EN 471<br/>Safety footwear EN20345<br/>Hard Hat to EN 397</li></ul> | Team leaders/ managers | Ongoing         | -    |
| Use of EPDM paste adhesive solvent free (gun applied) | Operatives – Irritating to eyes and skin                                                                                                                                                                                         | <ul style="list-style-type: none"><li>• Providing operatives with information and instruction as to safe use</li><li>• Providing appropriate PPE in the form of impervious gloves, eye protection (tightly sealed safety glasses).</li><li>• Product only used in well ventilated areas</li><li>• Appropriate First Aid facilities are available</li></ul>          | <ul style="list-style-type: none"><li>• Ongoing supervision and monitoring by team leaders and managers</li><li>• Task specific PPE<br/>Gloves to EN388<br/>Safety Glasses to EN166 F<br/>Hi-Viz Vest Class 2 EN 471<br/>Safety footwear EN20345<br/>Hard Hat to EN 397</li></ul> | Team leaders/ managers | Ongoing         | -    |

**Signed:**.....

**Name:**.....

**Position:**.....

**Date:**.....

•



JUNE 3, 2024

# PORT STREET, MANCHESTER

APPENDIX REV 1

PETER HAYWARD

# Appendix

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### Page 1 & 2

- Section 1 – Appendix

## Document: 5758 – Method Statement – Port St, Manchester

### Page 3

- Section 1 – GFS – Safety Statement
- Section 2 – Hazards (Refer to Project Specific Risk Assessment attached.)
- Section 3 – Risk Assessments ( Refer to Project Specific Risk Assessment attached)
- Section 4 - Materials

### Page 4

- Section 5 – Training
- Section 6 – Plant & Equipment
- Section 7 – Sequence of works
- Section 8 – Method of work

Transport & unloading

Installation of Aluminium windows

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Cont: Installation of Aluminium windows

Installation of Aluminium Curtain Walling

Installation of Aluminium Doors & Frames

- Section 9 - Personal Protective Equipment
- Section 10 – Working at Height
- Section 11 - Lifting Equipment
- Section 12 – Permits to work

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- Section 13 – Access & Lighting
- Section 14 – Housekeeping
- Section 15 – Noise & Vibration
- Section 16 – Traffic Management
- Section 17 – Protection of others

- Section 18 – Health & Welfare Arrangements
- Section 19 – Emergency Arrangements / Nearest Hospital
- Section 20 – First Aid

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- Section 21 – COSHH (refer to Document)

Comments & Both Companies signatures

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Method Statement Acknowledgement

**Document: 5758 – Risk Assessment – Working at Heights – Port St, Manchester**

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Risk Assessment working at Heights

**Document 5758 – General Site Risk Assessment – Port St, Manchester**

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General Site Risk Assessment

**Document 5758 – Manual Handling Risk Assessment – Port St, Manchester**

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Manual Handling Risk Assessment

**Document 5758 – C.O.S.H.H Assessment – Port St, Manchester**

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C.O.S.H.H Assessment



|                                                                                  |                             |                  |
|----------------------------------------------------------------------------------|-----------------------------|------------------|
|  | PLAN                        | FLTD-QUA-PLN-001 |
|                                                                                  | Site Inspection & Test Plan | Rev.00           |

# Project

## FOCCHI Ltd – Curtain Walling, Windows & Doors



### Site ITP

**Principal Contractor:** Renaker

**Company Name:** Focchi Ltd

**Document No:** PS

**Date:** 16/02/2024

| REV | DATA       | Written   | Reviewed by     | DESCRIPTION OF THE REVISION |
|-----|------------|-----------|-----------------|-----------------------------|
| 00  | 16/02/2024 | Luis Melo | Gerhard Zenunaj | First Review                |

|                                                                                  |                             |                  |
|----------------------------------------------------------------------------------|-----------------------------|------------------|
|  | PLAN                        | FLTD-QUA-PLN-001 |
|                                                                                  | Site Inspection & Test Plan | Rev.00           |

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|-----------------------------------------------------------------------------------|-----------------------------|--|------------------|
|  | PLAN                        |  | FLTD-QUA-PLN-001 |
|                                                                                   | Site Inspection & Test Plan |  | Rev.00           |

| Name                 | Role                | Company    | Contact                                              |
|----------------------|---------------------|------------|------------------------------------------------------|
| Carlo Alberto Pasini | Project Manager     | Focchi Ltd | c.pasini@focchi.it                                   |
|                      | Ass Project Manager | Focchi Ltd |                                                      |
| Marcello Ornoffi     | Project Manager     | Focchi SpA | m.ornoffi@focchi.it                                  |
| Karl McCarthy        | Site Manager        | Focchi Ltd | karl@focchiltd.co.uk /<br>karl.mccarthy@skyklass.com |
| Gerhard Zenunaj      | Logistics Manager   | Focchi Ltd | g.zenunaj@focchi.it                                  |
| Luis Melo            | HSQE Manager        | Focchi Ltd | luis@focchiltd.co.uk                                 |

## 01.INTRODUCTION

Focchi Ltd (Focchi) Site Inspection & Test Plan (SITP) as part of the Focchi Integrated Management System (QHSE – ISO 9001, 45001 and 14001) will be implemented on-site to monitor and record all façade works as the installation progresses. This document will provide an audit trail with the Quality Control of all phases of the works, from delivery to façade unit installation.

The SITP will be updated by the Focchi Project/Site Manager, reporting to the Focchi Health, Safety, Quality and Environmental Manager as required. The overall quality of the installation will be assessed daily by the Focchi Site Team, which will give technical support to the installation teams as required.

The responsibility for the implementation of the SITP for the project is with the entire project team. The SITP is continuously checked during the lifespan of the project to ensure that the requirements are being met and any improvement will be discussed between the Focchi Project Manager and the on-site team.



|                                                                                   |                             |  |  |  |  |  |                  |  |
|-----------------------------------------------------------------------------------|-----------------------------|--|--|--|--|--|------------------|--|
|  | PLAN                        |  |  |  |  |  | FLTD-QUA-PLN-001 |  |
|                                                                                   | Site Inspection & Test Plan |  |  |  |  |  | Rev.00           |  |

## 02.ITP

| BC  | Building Control                                             | H                                                      | Hold Point                                                                                                                                                                                                                 | N                 | Notification Point                            | T                                   | Test Required      | A            | Approval Required |     |                             |
|-----|--------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------|-------------------------------------|--------------------|--------------|-------------------|-----|-----------------------------|
| S   | Surveillance                                                 | R                                                      | Random Inspection                                                                                                                                                                                                          | I                 | Information Issue                             | PI                                  | Planned Inspection |              |                   |     |                             |
| No. | Activities                                                   | Reference Docs / Spec Clause                           | Acceptance Criteria                                                                                                                                                                                                        | Test & Inspection |                                               | Verifying Document                  | Sign Off By        | Verification |                   |     | Records / Evidence Location |
|     |                                                              |                                                        |                                                                                                                                                                                                                            | By whom           | Frequency                                     |                                     |                    | SKY          | FOC               | RNK |                             |
| 1.0 | Deliveries                                                   |                                                        |                                                                                                                                                                                                                            |                   |                                               |                                     |                    |              |                   |     |                             |
| 1.1 | Deliveries – On-Site Cladding Panel Unloading Procedures     |                                                        | Adequately Protected against Chipping and Staining<br>Individual Identification Tag / Bar Code<br>All Cladding must be left protected until unpacked for use. All areas are free of obstructions for delivery and storage. | FOC<br>SKY        | Every stillage delivery                       | ITP-001                             | FOC<br>QA          | H            | H                 |     | Cloud                       |
| 2.0 | Pre-Installation                                             |                                                        |                                                                                                                                                                                                                            |                   |                                               |                                     |                    |              |                   |     |                             |
| 2.1 | Calibration Certs for all setting out and checking equipment |                                                        | Ensure all measuring and testing equipment is calibrated and in date.                                                                                                                                                      | SKY               | 1 Week before the First Cladding Installation | Calibration Inspection Record Sheet | FOC<br>QA          | H            | H                 |     | Cloud                       |
| 2.2 | Skilled Personnel                                            | Site inductions, safety-critical and supervisor checks | Ensure all Installing Operatives are Competent and Qualified                                                                                                                                                               | SKY               | 1 Week before the First Cladding Installation | Records Site Induction Records      | FOC<br>QA          | H            | H                 | H   | Cloud                       |

|  | PLAN                        |  |  |  |  |  | FLTD-QUA-PLN-001 |
|-----------------------------------------------------------------------------------|-----------------------------|--|--|--|--|--|------------------|
|                                                                                   | Site Inspection & Test Plan |  |  |  |  |  | Rev.00           |

| <b>BC</b>  | Building Control        | <b>H</b>                     | Hold Point                                                                                                                                                                                                       | <b>N</b>          | Notification Point                     | <b>T</b>                                                              | Test Required      | <b>A</b>     | Approval Required |        |                             |
|------------|-------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------|-----------------------------------------------------------------------|--------------------|--------------|-------------------|--------|-----------------------------|
| <b>S</b>   | Surveillance            | <b>R</b>                     | Random Inspection                                                                                                                                                                                                | <b>I</b>          | Information Issue                      | <b>PI</b>                                                             | Planned Inspection |              |                   |        |                             |
| No.        | Activities              | Reference Docs / Spec Clause | Acceptance Criteria                                                                                                                                                                                              | Test & Inspection |                                        | Verifying Document                                                    | Sign Off By        | Verification |                   |        | Records / Evidence Location |
|            |                         |                              |                                                                                                                                                                                                                  | By whom           | Frequency                              |                                                                       |                    | SKY          | FOC               | RNK    |                             |
| 2.3        | Area Handover           |                              | As-built survey drawings and information showing levels of surface areas and Base Channel. All work areas must be clear of obstructions and surface water. All Pre-Cladding enabling works are within tolerance. | FOC               | Before Any Cladding Installation Works | Area Handover Acceptance Sheet <b>DC-001</b><br>RNK handover document | FOC<br>RNK         |              | H                 | H      | Cloud                       |
| <b>3.0</b> | <b>Installation</b>     |                              |                                                                                                                                                                                                                  |                   |                                        |                                                                       |                    |              |                   |        |                             |
| 3.1        | Benchmark               |                              | Benchmark installation as per the intended design. As per Architect specs.                                                                                                                                       | FOC<br>RNK        | For each installation type             | Benchmark Inspection report <b>DC-010</b>                             | RNK                | H            | H<br>A            | H<br>A |                             |
| 3.2        | Cast-In channels checks | Builders work                | Cast in channels set as per reference tolerances. As built drawing to be available. Pull-out test to be carried out by a third party (CFA Approved). As per Architect specs.                                     | FOC<br>RNK        | Every floor<br>Every elevation         | Cladding installation check sheet <b>ITP-002</b>                      | RNK                |              | H<br>A            | H<br>A | Cloud                       |

|  | PLAN                        |  |  |  |  |  | FLTD-QUA-PLN-001 |
|-----------------------------------------------------------------------------------|-----------------------------|--|--|--|--|--|------------------|
|                                                                                   | Site Inspection & Test Plan |  |  |  |  |  | Rev.00           |

| BC  | Building Control                      | H                                        | Hold Point                                                                                                                                                                  | N                        | Notification Point             | T                                                | Test Required            | A            | Approval Required |       |                             |
|-----|---------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------|--------------------------------------------------|--------------------------|--------------|-------------------|-------|-----------------------------|
| S   | Surveillance                          | R                                        | Random Inspection                                                                                                                                                           | I                        | Information Issue              | PI                                               | Planned Inspection       |              |                   |       |                             |
| No. | Activities                            | Reference Docs / Spec Clause             | Acceptance Criteria                                                                                                                                                         | Test & Inspection        |                                | Verifying Document                               | Sign Off By              | Verification |                   |       | Records / Evidence Location |
|     |                                       |                                          |                                                                                                                                                                             | By whom                  | Frequency                      |                                                  |                          | SKY          | FOC               | RNK   |                             |
| 3.3 | Set up and install cladding brackets. | Installation Drawings                    | Brackets are set as per reference documents.                                                                                                                                | SKY<br>FOC<br>RNK        | Every floor<br>Every Elevation | Cladding installation check sheet <b>ITP-003</b> | FOC                      | 100%         | 10%               | 5%    | Cloud                       |
| 3.4 | Base perimeter profile                | Installation Drawings                    | Base perimeter profile installed as per Installation Drawings and/or Operative Instructions                                                                                 | SKY<br>FOC               | Every floor<br>Every Elevation | Installation check sheet <b>ITP-004</b>          | FOC<br>SKY               | H            | H                 | H     | Cloud                       |
| 3.5 | Saddle gasket Installation            | Site Installation Operatives Instruction | The saddle gasket was installed as per Installation Drawings and/or Operative Instructions                                                                                  | SKY<br>FOC               | Leve 07<br>Every Elevation     | Installation check sheet <b>ITP-005</b>          | FOC<br>SKY               | H            | H                 | H     | Cloud                       |
| 3.6 | Units Installation                    | Installation Drawings                    | Units installed as per Installation Drawings and/or Operative Instructions                                                                                                  | SKY<br>FOC               | Every floor<br>Every Unit      | Cladding installation check sheet <b>ITP-006</b> | FOC                      | H            | H                 | R     | Cloud                       |
| 3.7 | Fire Barrier Installation             | Installation Drawings                    | Fire Barrier installed as per approved document Technical SKYmission from Siderise and training. Installed by approved FIRAS-trained installers.<br>As per Architect specs. | SKY<br>FOC<br>RNK<br>SDR | Every floor<br>Every Elevation | Cladding installation check sheet <b>ITP-007</b> | SKY<br>SDR<br>FOC<br>RNK | 100%         | 100 %             | 100 % | Cloud                       |

|  | PLAN                        |  |  |  |  |  | FLTD-QUA-PLN-001 |
|-----------------------------------------------------------------------------------|-----------------------------|--|--|--|--|--|------------------|
|                                                                                   | Site Inspection & Test Plan |  |  |  |  |  | Rev.00           |

| BC   | Building Control                 | H                            | Hold Point                                                                  | N                 | Notification Point                          | T                                                    | Test Required      | A            | Approval Required |     |                             |
|------|----------------------------------|------------------------------|-----------------------------------------------------------------------------|-------------------|---------------------------------------------|------------------------------------------------------|--------------------|--------------|-------------------|-----|-----------------------------|
| S    | Surveillance                     | R                            | Random Inspection                                                           | I                 | Information Issue                           | PI                                                   | Planned Inspection |              |                   |     |                             |
| No.  | Activities                       | Reference Docs / Spec Clause | Acceptance Criteria                                                         | Test & Inspection |                                             | Verifying Document                                   | Sign Off By        | Verification |                   |     | Records / Evidence Location |
|      |                                  |                              |                                                                             | By whom           | Frequency                                   |                                                      |                    | SKY          | FOC               | RNK |                             |
| 3.8  | Top Closure and Coping           | Installation Drawings        | Coping installed as per Installation Drawings and/or Operative Instructions | SKY<br>FOC<br>RNK | Last floor<br>Every Elevation               | Cladding installation check sheet<br><b>ITP-008</b>  | FOC<br>SKY         | H            | H                 | R   | Cloud                       |
| 3.9  | Stick System Installation check  | Installation Drawings        | Stick installed as per Installation Drawings and/or Operative Instructions  | SKY<br>FOC<br>RNK | Ground floor<br>Every Elevation             | Cladding installation check sheet<br><b>ITP-009</b>  | FOC<br>SKY         | H            | H                 | R   | Cloud                       |
| 3.10 | Stick System Mullions & Transoms | Installation Drawings        | Stick installed as per Installation Drawings and/or Operative Instructions  | SKY<br>FOC<br>RNK | Ground floor<br>Every Elevation             | Cladding installation check sheet<br><b>ITP-009a</b> | FOC<br>SKY         | H            | H                 | R   | Cloud                       |
| 3.11 | Stick System Glass/Panels        | Installation Drawings        | Stick installed as per Installation Drawings and/or Operative Instructions  | SKY<br>FOC<br>RNK | Every floor<br>Every Elevation              | Cladding installation check sheet<br><b>ITP-009b</b> | FOC<br>SKY         | H            | H                 | R   | Cloud                       |
| 3.12 | Stick System Infill Installation | Installation Drawings        | Stick installed as per Installation Drawings and/or Operative Instructions  | SKY<br>FOC<br>RNK | Ground floor<br>South Elevation             | Cladding installation check sheet<br><b>ITP-010</b>  | FOC<br>SKY         | H            | H                 | R   | Cloud                       |
| 3.13 | Door Installation                | Installation Drawings        | Doors installed as per Installation Drawings and/or Operative Instructions. | SKY<br>FOC        | Ground floor,<br>Level 7<br>Every Elevation | Door installation check <b>ITP-011</b>               | FOC<br>SKY         |              | H                 | H   | Cloud                       |

|  | PLAN                        |  |  |  |  |  | FLTD-QUA-PLN-001 |  |
|-----------------------------------------------------------------------------------|-----------------------------|--|--|--|--|--|------------------|--|
|                                                                                   | Site Inspection & Test Plan |  |  |  |  |  | Rev.00           |  |

| BC         | Building Control              | H                                | Hold Point                                                                             | N                 | Notification Point                             | T                                                                      | Test Required      | A            |     | Approval Required |                             |
|------------|-------------------------------|----------------------------------|----------------------------------------------------------------------------------------|-------------------|------------------------------------------------|------------------------------------------------------------------------|--------------------|--------------|-----|-------------------|-----------------------------|
| S          | Surveillance                  | R                                | Random Inspection                                                                      | I                 | Information Issue                              | PI                                                                     | Planned Inspection |              |     |                   |                             |
| No.        | Activities                    | Reference Docs / Spec Clause     | Acceptance Criteria                                                                    | Test & Inspection |                                                | Verifying Document                                                     | Sign Off By        | Verification |     |                   | Records / Evidence Location |
|            |                               |                                  |                                                                                        | By whom           | Frequency                                      |                                                                        |                    | SKY          | FOC | RNK               |                             |
| 3.14       | Balustrade Installation check | Installation Drawings            | Balustrade installed as per Installation Drawings and/or Operative Instructions        | SKY<br>FOC<br>RNK | Every floor<br>Every Elevation                 | Cladding installation check sheet<br><b>ITP-012</b>                    | FOC<br>SKY         | H            | H   | R                 | Cloud                       |
| 3.15       | Rainscreens                   | Installation Drawings            | Rainscreens are installed as per Installation Drawings and/or Operative Instructions   | SKY<br>FOC        | Last floor<br>Every Elevation                  | Cladding installation check sheet <b>ITP-014</b>                       | FOC<br>SKY         | H            | H   | R                 | Cloud                       |
| 3.16       | Protection of Facade works    | As per Architect specs.          | Protection is to be installed as per contract specs.                                   | FOC<br>SKY        | To be agreed with RNK                          | Protection of works <b>ITP-015</b>                                     | FOC<br>RNK         | H            | H   | H                 | Cloud                       |
| 3.17       | Interface with Bricks         | Installation Drawings            | Installed as per Installation Drawings and/or Operative Instructions                   | FOC<br>SKY        | From Ground floor to level 9                   | Installation check sheet <b>ITP-016</b>                                | FOC<br>SKY         | H            | H   | R                 | Cloud                       |
| 3.18       | Roof Cladding                 | Installation Drawings            | Soffits are installed as per Installation Drawings and/or Operative Instructions       | SKY<br>FOC        | Last floor<br>Every Elevation                  | Cladding installation check sheet<br><b>ITP-018</b>                    | FOC<br>SKY         | H            | H   | R                 | Cloud                       |
| <b>4.0</b> | <b>Installation Testing</b>   |                                  |                                                                                        |                   |                                                |                                                                        |                    |              |     |                   |                             |
| 4.1        | Site Hose Test                | Drawings or site hose test plan. | Check Criteria and Values Against Specs on CWCT's standard test methods for systemised | VINCI             | On Completion of External envelopes (benchmark | The report will be issued as test Certification after every visit with | FOC<br>RNK         |              | H   | H<br>A            | Cloud                       |

|                                                                                   |                             |  |  |  |  |  |                  |
|-----------------------------------------------------------------------------------|-----------------------------|--|--|--|--|--|------------------|
|  | PLAN                        |  |  |  |  |  | FLTD-QUA-PLN-001 |
|                                                                                   | Site Inspection & Test Plan |  |  |  |  |  | Rev.00           |

| <b>BC</b>  | Building Control        | <b>H</b>                     | Hold Point                                                                                                                     | <b>N</b>          | Notification Point                                                             | <b>T</b>                                                 | Test Required      | <b>A</b>     | Approval Required |        |                             |
|------------|-------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------|----------------------------------------------------------|--------------------|--------------|-------------------|--------|-----------------------------|
| <b>S</b>   | Surveillance            | <b>R</b>                     | Random Inspection                                                                                                              | <b>I</b>          | Information Issue                                                              | <b>PI</b>                                                | Planned Inspection |              |                   |        |                             |
| No.        | Activities              | Reference Docs / Spec Clause | Acceptance Criteria                                                                                                            | Test & Inspection |                                                                                | Verifying Document                                       | Sign Off By        | Verification |                   |        | Records / Evidence Location |
|            |                         |                              |                                                                                                                                | By whom           | Frequency                                                                      |                                                          |                    | SKY          | FOC               | RNK    |                             |
|            |                         |                              | bld envelopes, chapter 9 (cladding Related TNs) and TN 41 for site Water Testing.<br><br>Location areas to be approved by RNK. |                   | to be preliminary hose tested before installation of a large volume of units). | PASS-FAILURE Criteria.<br>Water test witness inspection. |                    |              |                   |        |                             |
| 4.2        | Sealant Site Test       |                              | As per manufacturer specifications.                                                                                            | FOC               | Where required                                                                 | The report will be issued after testing <b>DC-007</b>    | FOC                |              | H                 | R      | Cloud                       |
| <b>5.0</b> | <b>Handover Process</b> |                              |                                                                                                                                |                   |                                                                                |                                                          |                    |              |                   |        |                             |
| 5.1        | Pre-protection handover |                              | Snag to be recorded pre-protection.                                                                                            | FOC<br>RNK        | To be agreed with RNK                                                          | Pre-protection handover form <b>DC-004</b>               | FOC<br>RNK         |              | H<br>A            | H<br>A | Cloud                       |
| 5.2        | Final handover report   |                              | All façade is installed and snag-free and final clean.                                                                         | FOC<br>RNK        | To be agreed with RNK                                                          | Final Handover Report <b>DC-005</b>                      | FOC<br>RNK         |              | H<br>A            | H<br>A | Cloud                       |
| 5.3        | Glass Replacement       |                              |                                                                                                                                | FOC<br>SKY        | Every floor<br>Every Elevation                                                 | Cladding installation check sheet <b>DC-008</b>          | FOC<br>SKY         | H            | H                 | R      | Cloud                       |
| <b>6.0</b> | <b>Non-Conformance</b>  |                              |                                                                                                                                |                   |                                                                                |                                                          |                    |              |                   |        |                             |

|                                                                                   |                             |  |  |  |  |  |                  |
|-----------------------------------------------------------------------------------|-----------------------------|--|--|--|--|--|------------------|
|  | PLAN                        |  |  |  |  |  | FLTD-QUA-PLN-001 |
|                                                                                   | Site Inspection & Test Plan |  |  |  |  |  | Rev.00           |

| <b>BC</b> | Building Control      | <b>H</b>                     | Hold Point          | <b>N</b>                          | Notification Point   | <b>T</b>                   | Test Required      | <b>A</b>     | Approval Required |     |                             |
|-----------|-----------------------|------------------------------|---------------------|-----------------------------------|----------------------|----------------------------|--------------------|--------------|-------------------|-----|-----------------------------|
| <b>S</b>  | Surveillance          | <b>R</b>                     | Random Inspection   | <b>I</b>                          | Information Issue    | <b>PI</b>                  | Planned Inspection |              |                   |     |                             |
| No.       | Activities            | Reference Docs / Spec Clause | Acceptance Criteria | Test & Inspection                 |                      | Verifying Document         | Sign Off By        | Verification |                   |     | Records / Evidence Location |
|           |                       |                              |                     | By whom                           | Frequency            |                            |                    | SKY          | FOC               | RNK |                             |
| 6.1       | Non-conformity report |                              |                     | Include the Responsible Personnel | As and when required | NCR Document <b>DC-002</b> | FOC                |              | I                 | A   | Cloud                       |
| 6.2       | Site Damage report    |                              |                     | Include the Responsible Personnel | As and when required | SDR Document <b>DC-003</b> | FOC                |              | I                 |     | Cloud                       |

### 03.FOCCHI ISO 9001 CERTIFICATE



# MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:  
CERT-02762-98-ITA-SINCERT-SINCERT-CC1

Valid:  
07 November 2021 – 06 November 2024

Belongs to Central Office Certificate No.:  
CERT-02762-98-ITA-SINCERT

This is to certify that the management system of

**FOCCHI LTD**

Sherlock House, 7 Kenrick Pl, London, W1U 6HE, United Kingdom

has been found to conform to the Quality Management System standard:

**ISO 9001:2015**

This certificate is valid for the following scope:

**Sale and installation management of curtain walls, cladding, aluminium or steel windows and doors and relative metalwork (IAF 17, 28)**

**Evaluated according to the requirements of Technical Regulations RT-05**

**This certificate is meant to refer to the general management aspects of the organization as a whole and may be used by construction companies for qualification purposes according to Art. 84 of the Legislative Decree n. 50/2016 and s.c.i. and ANAC's applicable Guidelines**

Place and date:  
Vimercate, 09 February 2022



ISO 9001:2015  
SGR N° 003 D  
SGR N° 007 M  
SGR N° 004 F

DNV N° 005 P  
PRD N° 003 B  
PRD N° 004 C  
ISO N° 002 G

Member of PRA CA per gli schemi di accreditamento  
SGR, SGR, PRD, PRS, ISO, ISO, LAB e LAB, di PRA N°  
per gli schemi di accreditamento SGR, SGR, ISO, ISO  
e PRD e di PRA ILAC per gli schemi di accreditamento  
LAB, PRD, LAT e ISO

For the issuing office:  
DNV - Business Assurance  
Via Energy Park, 14, - 20871 Vimercate (MB) - Italy

Claudia Baroni  
Management Representative

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.

ACCREDITED UNIT: DNV Business Assurance Italy S.r.l. Via Energy Park, 14 - 20871 Vimercate (MB) - Italy - TEL: +39 68 99 906 - [www.dnv.it](http://www.dnv.it)



|            |            |                                                |         |
|------------|------------|------------------------------------------------|---------|
| Reference  | SMS 12.2.A | Subcontractor (ONLY) RAMS<br>Approval Document | RENAKER |
| Originator | M Stubbs   |                                                |         |
| Revision   | 05         |                                                |         |

## SUBCONTRACT RISK ASSESSMENT METHOD STATEMENT APPROVAL

|                                          |                                |                                      |              |
|------------------------------------------|--------------------------------|--------------------------------------|--------------|
| Project Name / Address:                  | Port St.                       |                                      |              |
| Activity Title & Reference:              | MS-003 SURVEYING + SETTING OUT |                                      |              |
| Location: (Block / Level / Area)         | A/C Level in the Tower.        |                                      |              |
| Project Manager:                         | Ben Cullen                     |                                      |              |
| Frame Manager:<br>(If Applicable)        | N/A                            |                                      |              |
| Construction Manager:<br>(If Applicable) | Nick Santuosa                  |                                      |              |
| Subcontractor:<br>(If Applicable)        | Forcui                         | SUB RAMS Reg No:<br>MS-003<br>Ren 00 |              |
| Subcontract Manager:<br>(If Applicable)  | Carlo PASINI                   |                                      |              |
| RAMS Writer Name:                        | KARL McCauley                  | Tel:                                 | 07751 955246 |

| Reviewed By: | Date:    | Comments:    | Returned To: | Date: |
|--------------|----------|--------------|--------------|-------|
| CP           | 05/03/24 | No Comments. | —            | —     |
|              |          |              |              |       |
|              |          |              |              |       |

Having cross referenced the check sheet overleaf I am reasonably satisfied, to the best of my knowledge; the proposals in the above Risk Assessment Method Statement (RAMS) are adequate to commence activities.

**APPROVED FOR USE:** .....

**Project Manager Name:** Ben Cullen

**Signature:**  .....

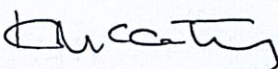
**Date:** 14/03/24



## MS-003 Surveying & Setting Out

### METHOD STATEMENT & RISK ASSESSMENT



|                                                                                                |                                                                                                 |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Karl McCarthy</b><br>Focchi Site Manager                                                    | <b>Moe Shehadeh</b><br>Swansea Surveys Manager / Supervisor                                     |
| Signature:  | Signature: _____                                                                                |
| <b>Carlo Alberto Pacini</b><br>Focchi Project manager                                          | <b>Peter bean</b><br>Focchi health and safety manager                                           |
| Signature:  | Signature:  |

| Project     | Document code | Revision | Date       |
|-------------|---------------|----------|------------|
| Port Street | MS- 003       | 00       | 20/02/2024 |





Sherlock House  
7 Kenrick Place  
London W1U 6HE

Tel: 020 7224 2934  
Fax: 020 7487 5732  
E-mail: info@focchiltd.co.uk

## METHOD STATEMENT & RISK ASSESSMENT

### SAFETY METHOD STATEMENT

|                                                                                  |     |                                                                                                                                                           |                   |                                |    |          |
|----------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------|----|----------|
| PROJECT: <b>Port Street</b>                                                      |     | MAIN CONTRACTOR: <b>Renaker</b>                                                                                                                           |                   |                                |    |          |
| METHOD STATEMENT: <b>MS - 003</b>                                                |     | REVISION: <b>00</b>                                                                                                                                       |                   | PACKAGE No: <b>230010</b>      |    |          |
| WRITTEN BY: <b>Karl McCarthy</b>                                                 |     | TEL: <b>07523 973828</b>                                                                                                                                  |                   | DATE: <b>20-02-2024</b>        |    |          |
| TITLE: <b>MS - 003 Surveying &amp; Setting out</b>                               |     |                                                                                                                                                           |                   |                                |    |          |
| LOCATION OF WORK: <b>Port Street, Manchester.</b>                                |     |                                                                                                                                                           |                   |                                |    |          |
| START DATE: <b>13 - 20.02.2023</b>                                               |     | DURATION: <b>25 weeks</b>                                                                                                                                 |                   | FINISH DATE: <b>11.08.2023</b> |    |          |
| PROGRAMME: <b>Rev 00 – 07.09.2022</b>                                            |     |                                                                                                                                                           |                   |                                |    |          |
| WORKING HOURS: <b>Mon-Fri from 7:30 to 17:30</b>                                 |     |                                                                                                                                                           |                   | NIGHT SHIFT: <b>N/A</b>        |    |          |
| SCOPE OF WORKS: <b>Surveying &amp; Setting out for façade installation works</b> |     |                                                                                                                                                           |                   |                                |    |          |
| SUPERVISOR(S)                                                                    |     | SUPERVISOR(S)                                                                                                                                             |                   |                                |    |          |
| IN CHARGE                                                                        |     | <b>Moe Shehadeh</b>                                                                                                                                       |                   | SUPERVISOR(S) <b>-</b>         |    |          |
| SUBCONTRACTORS TO CARRY OUT THE WORKS AND NUMBER OF OPERATIVES:                  |     |                                                                                                                                                           |                   |                                |    |          |
| Swansea Surveys                                                                  |     | <b>No: 2 - 4</b>                                                                                                                                          |                   |                                |    |          |
|                                                                                  |     |                                                                                                                                                           |                   |                                |    |          |
| MATERIALS TO BE USED:                                                            |     | PLANT & EQUIPMENT TO BE USED:                                                                                                                             |                   |                                |    |          |
| <b>Line marker paint</b>                                                         |     | <b>All equipment is required to have a calibration certificate. Total Station, Targets, Dumpy Level, Optical Plummet, Calibrated tape and 5kg weight.</b> |                   |                                |    |          |
| PERMITS REQUIRED                                                                 |     |                                                                                                                                                           |                   |                                |    |          |
|                                                                                  | YES | NO                                                                                                                                                        |                   | YES                            | NO | ATTACHED |
| ROAD CLOSURE                                                                     |     | X                                                                                                                                                         | COSHH             | X                              |    | X        |
| HOT WORKS                                                                        |     | X                                                                                                                                                         | MANUAL HANDLING   | X                              |    | X        |
| ACCESS TO ROOF/TERRACE                                                           |     | X                                                                                                                                                         | NOISE             |                                | X  |          |
| OTHERS (Specify)                                                                 |     | X                                                                                                                                                         | WORKING AT HEIGHT |                                | X  |          |



## SEQUENCE OF WORK OPERATIONS

### SCOPE OF WORKS

The scope of the works is to Check the Primary Control Stations and Datum's, establish Secondary Control and Datum's and Setting - Out of reference Grid lines or Brackets that will assist the Installation team in executing the required works for the cladding package at Ground Floor to Roof.

### GENERAL NOTE

1. All operatives will access the work areas using the designated safe walkways.
2. All tools/equipment will be tethered suitably with the correct SWL & connection when working at height/Leading edge activities.
3. PUWER registration to be carried out weekly and issued with the weekly safety pack to RENAKER construction.
4. All redundant spray paint material will be removed from site and disposed of accordingly.
5. Task lighting to be provided by FOCCHI.

### BEFORE TASK START

1. All personnel to attend a RENAKER site induction prior to commencement of the works.
2. All operative who are to undertake any work described in this Method Statement will have the content of this document explained to them and will sign to confirm their full understanding of all procedures and risks described and or detailed therein.
3. All Survey equipment will be required to have a calibration certificate, which will be filed by Focchi management and sent to the Main Contractor upon request.
4. Tools, equipment, will be manually carried to the designated working area.
5. Floor slab to be cleared & handed over to FOCCHI by Main Contractor.
6. FOCCHI Surveyor to consult with RENAKER surveyor for Primary Control and datum, deemed ready to commence survey work.
7. Slab edge is to be clear of debris & materials.
8. All tools will be tethered for any work required at the edge of the building.

### SEQUENCE OF SURVEYING WORKS

1. Check Primary Control and issue report of accuracy/discrepancies. Control should be inter-visible and remain accessible throughout the duration of the project.
2. If the Primary Control Station issued by the Main Contractor is in the form of Retros and/or floor Studs, as opposed to Plumb Holes, then it is the Main Contractor's responsibility in ensuring alignment between Primary Control on the Floors above and below.
3. Transfer Primary Control provided by Optical Plummet/laser (to each floor and cross check with The Main Contractor Primary Control.  
Focchi will report any discrepancies to The Main Contractor via email, prior to proceeding. If the discrepancy is disputed, then a joint survey will be required to ascertain the findings.
4. If the Primary Control is within the required tolerances, secondary control will be established at strategic locations (for the survey works) on the respective floors.





Sherlock House  
7 Kenrick Place  
London W1U 6HE  
Tel: 020 7224 2934  
Fax: 020 7487 5732  
E-mail: info@focchiltd.co.uk

## METHOD STATEMENT & RISK ASSESSMENT

5. Check Primary Datum's using a Calibrated Tape, 5kg weight and Dumpy Level and issue report of accuracy/discrepancies. The Primary Datum's on each floor should remain accessible throughout the duration of the project.
6. Establish Secondary Datum with FOCCHI label clearly marked and a value noted accordingly. FOCCHI Installation team are to use The FOCCHI labelled Datum's exclusively.
7. Set-out points at a fixed measurement from the face of the Cladding, Brackets and/or Grid Lines. Points will be permanently marked with line marker paint, pencil lines and permanent marker, as per Setting- Out drawing requirements. These points will be offset from the edge of the slab 500mm (or similar) to ensure all work is carried out inside the edge protection.
8. All redundant COSHH material will be placed into waste bins/bags provided FOCCHI, by Swansea Surveys personnel.
9. All material and equipment will be cleared at the end of the shift and stored or disposed of in the designated waste provisions. COSHH to be disposed of by FOCCHI.

### FIRST AID AND RESCUE

|                         |                   |              |
|-------------------------|-------------------|--------------|
| FIRST AIDER             | Karl McCarthy     | 07751 955246 |
| FIRST AIDER             | Daniel Ciolpan    | 07590 116126 |
| SUPERVISOR SKYCLASS     | Sebastian Drehuta | 07557 041316 |
| CONTACT SWANSEA SURVEYS | Jamal Shehadeh    | 07977 497487 |

|                                               |                                      |
|-----------------------------------------------|--------------------------------------|
| FIRST AID BOX LOCATION (where applicable):    | FOCCHI Room Second Floor Site Office |
| SITE LOCATION:                                | Port Street, Manchester              |
| SPECIFIC RESCUE / SECURITY MEASURES REQUIRED: | NONE                                 |

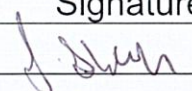
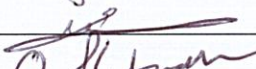
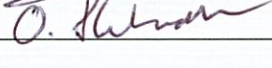
### AMENDMENTS TO METHOD STATEMENT

|     |       |       |
|-----|-------|-------|
| BY: | DATE: | SIGN: |
|     |       |       |
|     |       |       |
|     |       |       |
|     |       |       |
|     |       |       |
|     |       |       |



| RISK ASSESSMENT           |                                              |                         |                               |                                        |                                 |   |
|---------------------------|----------------------------------------------|-------------------------|-------------------------------|----------------------------------------|---------------------------------|---|
| Work Activity:            |                                              | General Surveying Works |                               |                                        |                                 |   |
|                           | Access/Egress                                |                         | Heat                          |                                        | Radiation Exposure              |   |
|                           | Bursting/Explosion/Over Pressurising         |                         | Hot or Cold Surfaces          |                                        | Sharp/Rough Edges               |   |
|                           | Collapse                                     |                         | Manual Handling               |                                        | Slips/Trips/Falls on same level |   |
|                           | Confined Space                               |                         | Moving parts of Machinery     |                                        | Slips/Trips/Falls steps/stairs  |   |
|                           | Drowning                                     |                         | Moving Vehicles               |                                        | Substances/Chemicals            |   |
|                           | Dust/Flying Particles                        |                         | Noise                         |                                        | Toxic Fumes                     |   |
|                           | Electricity                                  |                         | Overturning                   |                                        | Trapping                        |   |
|                           | Falls from Height                            |                         | Oxygen Enrichment             |                                        | Vibration                       |   |
|                           | Falling Objects                              |                         | Oxygen Depletion/Asphyxiation |                                        | Weather                         |   |
|                           | Fire/Flammable Atmosphere                    |                         | Protruding Objects            |                                        | Materials on Floor              |   |
|                           |                                              |                         |                               |                                        |                                 |   |
| Parts of the body at risk |                                              |                         |                               |                                        |                                 |   |
|                           | Head                                         |                         | Back - Upper                  |                                        | Eyes                            |   |
|                           | Hands                                        |                         | Back - Lower                  |                                        | Skin                            |   |
|                           | Feet                                         |                         | Internal Organs               |                                        | Whole Body                      |   |
| WHO/what is at risk       |                                              |                         |                               |                                        |                                 |   |
|                           | Self                                         |                         | Client/Visitors               |                                        | Building                        |   |
|                           | Other FOCCHI Operatives                      |                         | Public                        |                                        | Other                           |   |
|                           | Other Trades                                 |                         | Environment                   |                                        |                                 |   |
| Likelihood                |                                              |                         | Quantifying Risk              |                                        |                                 |   |
| 1                         | Improbable/Very unlikely it will ever happen |                         | 1                             | Minor Injuries/Inconvenience           |                                 |   |
| 2                         | Remote/Unlikely but possible                 |                         |                               | Operative can continue work            |                                 |   |
| 3                         | Occasional/sometimes                         |                         |                               | Short Term local damage                |                                 |   |
| 4                         | Probable/Likely to occur several             |                         | 2                             | Minor Injuries                         |                                 |   |
| 5                         | Frequent/Likely to occur on many             |                         |                               | First Aid Treatment/Stops Work         |                                 |   |
|                           |                                              |                         |                               | Medium Term Local Damage               |                                 |   |
|                           |                                              |                         |                               | Short Term Regional Damage             |                                 |   |
|                           |                                              |                         | 3                             | RIDDOR Lost Time Injury/Illness        |                                 |   |
|                           |                                              |                         |                               | Long Term local or Regional Damage     |                                 |   |
|                           |                                              |                         | 4                             | Major Injury/Illness Long Term Effects |                                 |   |
|                           |                                              |                         |                               | Long Term Widespread Damage            |                                 |   |
|                           |                                              |                         | 5                             | Fatalities                             |                                 |   |
|                           |                                              |                         |                               | Widespread Permanent Damage            |                                 |   |
|                           | Likelihood                                   | Severity Score          |                               |                                        |                                 |   |
|                           |                                              | 1                       | 2                             | 3                                      | 4                               | 5 |
| 5                         |                                              |                         |                               |                                        |                                 |   |
| 4                         |                                              |                         |                               | HIGH                                   |                                 |   |
| 3                         |                                              |                         | MED                           |                                        |                                 |   |
| 2                         |                                              | LOW                     |                               |                                        |                                 |   |
| 1                         |                                              |                         |                               |                                        |                                 |   |



| Degree of Risk Before Assessment                       |                                                                                                                                                                                                                                                                                                                                                                                             | *Physical / *Environmental / *Chemical Risk                                          |          |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------|
| <b>Physical Risk</b>                                   |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |          |
| Work at Heights                                        | Severe to Fatal                                                                                                                                                                                                                                                                                                                                                                             | <b>HIGH</b>                                                                          |          |
| Falling Objects                                        | Severe to Fatal                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |          |
| Trips & Falls                                          | Materials & Equipment in working area                                                                                                                                                                                                                                                                                                                                                       | <b>MEDIUM</b>                                                                        |          |
| Trips & Falls                                          | Exposed openings & Steps/Stairs                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |          |
| <b>Chemical &amp; Environmental Risk</b>               |                                                                                                                                                                                                                                                                                                                                                                                             | <b>LOW</b>                                                                           |          |
| COSHH                                                  | Marker Paint/Skin irritation                                                                                                                                                                                                                                                                                                                                                                |                                                                                      |          |
| <b>Degree of Risk After Assessment</b>                 |                                                                                                                                                                                                                                                                                                                                                                                             | <b>REMEDIALS/ACTIONS/CONTROLS</b>                                                    |          |
| REMEDIALS<br>ACTIONS<br>CONTROLS                       | Tools secured to suitable Lanyards.<br>No works permitted above others.<br>All tools used within exclusion zones must be tethered.<br>Works must be planned & scheduled with the Site Team.<br>No works to be carried out by an open edge.<br>Works only to be carried out with designated Focchi Exclusion Zones.<br>All COSHH waste to be disposed of in the designated COSHH waste bins. | <b>HIGH</b>                                                                          |          |
|                                                        |                                                                                                                                                                                                                                                                                                                                                                                             | <b>MEDIUM</b>                                                                        |          |
| Additional Control Measures                            | PPE.<br>Pre-Start RAMS Briefing.<br>Toolbox Talk.<br>Point of work assessment.<br>Off set survey points internally to avoid edge of building survey works.                                                                                                                                                                                                                                  | <b>LOW</b>                                                                           |          |
| <b>CONFIRMATION FROM OPERATIVES CARRYING OUT WORKS</b> |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |          |
| Name                                                   | Company                                                                                                                                                                                                                                                                                                                                                                                     | Signature                                                                            | Date     |
| S. SHEHADEH                                            | SWANSEA SURVEYS                                                                                                                                                                                                                                                                                                                                                                             |  | 06/03/24 |
| M. Abuammouna                                          | Swansea Surveys                                                                                                                                                                                                                                                                                                                                                                             |  | 06/03/24 |
| O. Shehadeh                                            | Swansea Surveys                                                                                                                                                                                                                                                                                                                                                                             |  | 06/03/24 |
|                                                        |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |          |
|                                                        |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |          |
|                                                        |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |          |
|                                                        |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |          |
|                                                        |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |          |



## COSHH

|                                                                                                                                                                             |                                                                                                                                  |                                                                                                                                               |                                                 |                                                                                     |                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|
|                                                                                            |                                                                                                                                  | <b>COSHH Risk Assessment</b>                                                                                                                  |                                                 |  |                                 |
| Directorate:                                                                                                                                                                |                                                                                                                                  |                                                                                                                                               | Establishment/Section:                          |                                                                                     |                                 |
| Describe the activity or work process.<br><i>(Include how long and how often this is carried out and the quantity of substance used)</i>                                    |                                                                                                                                  | <b>Line marking paint used for identifying completed works, used in short frequent bursts.</b>                                                |                                                 |                                                                                     |                                 |
| Location of process being carried out?                                                                                                                                      |                                                                                                                                  | <b>Renaker, Port Street, Manchester</b>                                                                                                       |                                                 |                                                                                     |                                 |
| Identify the persons at risk:                                                                                                                                               |                                                                                                                                  | Employees<br><i>(including trainees)</i> <input checked="" type="checkbox"/>                                                                  | Contractors <input checked="" type="checkbox"/> | Public<br><i>(including students)</i> <input type="checkbox"/>                      |                                 |
| Name the substance involved in the process and its manufacturer.<br><i>(A copy of a current safety data sheet for this substance should be attached to this assessment)</i> |                                                                                                                                  | <b>Line Marker Spray</b>                                                                                                                      |                                                 |                                                                                     |                                 |
| <b>Classification (state the category of danger)</b>                                                                                                                        |                                                                                                                                  |                                                                                                                                               |                                                 |                                                                                     |                                 |
|  <input type="checkbox"/> Very Toxic                                                     |  <input checked="" type="checkbox"/> Irritant |  <input checked="" type="checkbox"/> Extremely Flammable |                                                 |                                                                                     |                                 |
|  <input type="checkbox"/> Toxic                                                          |  <input type="checkbox"/> Sensitising         |  <input type="checkbox"/> Highly Flammable               |                                                 |                                                                                     |                                 |
|  <input type="checkbox"/> Corrosive                                                      |  <input type="checkbox"/> Biological          |  <input type="checkbox"/> Flammable                      |                                                 |                                                                                     |                                 |
|  <input checked="" type="checkbox"/> Harmful                                             |  <input type="checkbox"/> Oxidising           |  <input type="checkbox"/> Environmental                  |                                                 |                                                                                     |                                 |
| <b>Hazard Type</b>                                                                                                                                                          |                                                                                                                                  |                                                                                                                                               |                                                 |                                                                                     |                                 |
| <input type="checkbox"/> Gas                                                                                                                                                | <input checked="" type="checkbox"/> Vapour                                                                                       | <input checked="" type="checkbox"/> Mist                                                                                                      | <input checked="" type="checkbox"/> Fume        | <input type="checkbox"/> Dust                                                       | <input type="checkbox"/> Liquid |
| <input type="checkbox"/> Solid                                                                                                                                              | <input type="checkbox"/> Other (State)                                                                                           |                                                                                                                                               |                                                 |                                                                                     |                                 |
| <b>Route of Exposure</b>                                                                                                                                                    |                                                                                                                                  |                                                                                                                                               |                                                 |                                                                                     |                                 |
| <input checked="" type="checkbox"/> Inhalation                                                                                                                              | <input checked="" type="checkbox"/> Skin                                                                                         | <input checked="" type="checkbox"/> Eyes                                                                                                      | <input checked="" type="checkbox"/> Ingestion   | <input type="checkbox"/> Other (State)                                              |                                 |



**Workplace Exposure Limits (WELs) please indicate n/a where not applicable**

**Long-term exposure level (8hrTWA):**

Acetone (CAS#67-64-1) NOHSC-TWA: 1185 mg/m<sub>3</sub>  
Ethyl Acetate (CAS#141-78-6) NOHSC-TWA: 720 mg/m<sub>3</sub>  
Dimethyl Ether (CAS#115-10-6) NOHSC-TWA: 760 mg/m<sub>3</sub>

**Short-term exposure level (15 mins):**

Acetone (CAS#67-64-1) NOHSC-STEL: 2375 mg/m<sub>3</sub>  
Ethyl Acetate (CAS#141-78-6) NOHSC-STEL: 1440 mg/m<sub>3</sub>  
Dimethyl Ether (CAS#115-10-6) NOHSC-STEL: 950 mg/m<sub>3</sub>

**State the Risks to Health from Identified Hazards**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H413 May cause long lasting harmful effects to aquatic life.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P260 Do not breathe spray.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash ... thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents / container in accordance with regional regulations.

**Additional information:**

Build-up of explosive mixtures possible without sufficient ventilation.

**Control Measures:** (for example extraction, ventilation, training, supervision). Include special measures for vulnerable groups, such as disabled people and pregnant workers. Take account of those substances that are produced from activities undertaken by another employer's employees.

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages, and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.

**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.

**· Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

**· 7.2 Conditions for safe storage, including any incompatibilities**

**· Storage:**

**· Requirements to be met by storerooms and receptacles:**

Store in a cool location.  
Observe official regulations on storing packaging's with pressurized containers.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:**

Do not seal receptacle gas tight. Store in cool, dry conditions in well-sealed receptacles. Protect from heat and direct sunlight.



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                  |                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Is health surveillance or monitoring required?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                  |                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Yes <input type="checkbox"/>                                                                                                     | No <input checked="" type="checkbox"/> |
| <b>Personal Protective Equipment (state type and standard)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                  |                                        |
|  <input type="checkbox"/><br>Dust mask                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Not necessary if room is well-ventilated.<br>Otherwise, filter class A / P2 or self contained.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  <input type="checkbox"/><br>Visor              |                                        |
|  <input type="checkbox"/><br>Respirator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  <input checked="" type="checkbox"/><br>Goggles | Safety glasses                         |
|  <input checked="" type="checkbox"/><br>Gloves                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>· <b>Protection of hands:</b><br/>Protective gloves<br/>Solvent resistant gloves<br/>In case of contact with spray dust protective gloves made of butyl should be used (min. 0.4 mm thick), e.g.<br/>KCL Camatril, article no. 898 or similar products<br/>The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.<br/>Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation</li> <li>· <b>Material of gloves</b> Butyl rubber, BR</li> <li>· <b>Penetration time of glove material</b><br/>Butyl rubber gloves with a thickness of 0.4 mm are resistant to:<br/>Acetone: 480 min<br/>Ethyl acetate: 170 min</li> </ul> |  <input type="checkbox"/><br>Overalls           |                                        |
|  <input checked="" type="checkbox"/><br>Footwear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  <input type="checkbox"/><br>Other            |                                        |
| <b>First Aid Measures</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                  |                                        |
| <b>4.1 Description of first aid measures</b><br><ul style="list-style-type: none"> <li>· <b>General information:</b><br/>Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.</li> <li>· <b>After inhalation:</b><br/>Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.<br/>In case of unconsciousness place patient stably in side position for transportation.</li> <li>· <b>After skin contact:</b> Immediately wash with water and soap and rinse thoroughly.</li> <li>· <b>After eye contact:</b> Rinse opened eye for several minutes under running water.</li> <li>· <b>After swallowing:</b> Drink plenty of water and provide fresh air. Call for a doctor immediately.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                  |                                        |
| <ul style="list-style-type: none"> <li>· <b>4.2 Most important symptoms and effects, both acute and delayed</b> No further relevant information available.</li> <li>· <b>4.3 Indication of any immediate medical attention and special treatment needed</b> <ul style="list-style-type: none"> <li>• No further relevant information available.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                  |                                        |
| <b>Storage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                  |                                        |
| Site COSHH Storage cage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                  |                                        |





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## METHOD STATEMENT & RISK ASSESSMENT

| Disposal of Substances & Contaminated Containers |                                          |                                          |                                             |                                         |
|--------------------------------------------------|------------------------------------------|------------------------------------------|---------------------------------------------|-----------------------------------------|
| Hazardous Waste                                  | <input checked="" type="checkbox"/> Skip | <input type="checkbox"/> Return to Depot | <input type="checkbox"/> Return to Supplier | <input type="checkbox"/> Other          |
| (If Other Please State): .....                   |                                          |                                          |                                             |                                         |
| Is exposure adequately controlled?               |                                          | Yes <input checked="" type="checkbox"/>  | No                                          | <input type="checkbox"/>                |
| Risk Rating Following Control Measures           |                                          |                                          |                                             |                                         |
| High                                             | <input type="checkbox"/>                 | Medium                                   | <input type="checkbox"/>                    | Low <input checked="" type="checkbox"/> |

|   |                  |
|---|------------------|
| 1 | Additional Notes |
|---|------------------|

|   |                                               |
|---|-----------------------------------------------|
| 2 | Copy of Training Records of Personnel on Site |
|---|-----------------------------------------------|

All operatives training certification will be held on RENAKER online induction and available on request.

|   |                           |
|---|---------------------------|
| 3 | List of Relevant Drawings |
|---|---------------------------|

All relevant drawings held on file in site office.

|   |              |
|---|--------------|
| 4 | Lifting Plan |
|---|--------------|

N/A



|            |            |                                                |         |
|------------|------------|------------------------------------------------|---------|
| Reference  | SMS 12.2.A | Subcontractor (ONLY) RAMS<br>Approval Document | RENAKER |
| Originator | M Stubbs   |                                                |         |
| Revision   | 05         |                                                |         |

### SUBCONTRACT RISK ASSESSMENT METHOD STATEMENT APPROVAL

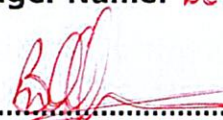
|                                          |                                                                             |                             |  |
|------------------------------------------|-----------------------------------------------------------------------------|-----------------------------|--|
| Project Name / Address:                  | Post St                                                                     |                             |  |
| Activity Title & Reference:              | MS-006 INSTALLATION OF UNITISED FRAMES USING MINI CRANE + LAUNCHING TABLES. |                             |  |
| Location: (Block / Level / Area)         | A/C Lounge.                                                                 |                             |  |
| Project Manager:                         | Ben Cullen                                                                  |                             |  |
| Frame Manager:<br>(If Applicable)        | —                                                                           |                             |  |
| Construction Manager:<br>(If Applicable) | Caird Pinningson.                                                           |                             |  |
| Subcontractor:<br>(If Applicable)        | Focus                                                                       | SUB RAMS Reg No:<br>MS-006. |  |
| Subcontract Manager:<br>(If Applicable)  | Cairo Pasini                                                                |                             |  |
| RAMS Writer Name:                        | Barry Mc CARTHY.                                                            | Tel: 07751 955246           |  |

| Reviewed By: | Date:    | Comments:                                                | Returned To:           | Date:     |
|--------------|----------|----------------------------------------------------------|------------------------|-----------|
| C.P.         | 08/03/24 | No Warm Crochig mentioned for crane or launching tables. | CPASINI<br>R Mc CARTHY | 13/03/24. |
|              |          |                                                          |                        |           |

Having cross referenced the check sheet overleaf I am reasonably satisfied, to the best of my knowledge; the proposals in the above Risk Assessment Method Statement (RAMS) are adequate to commence activities.

**APPROVED FOR USE:** .....

Project Manager Name: Ben Cullen

Signature:  .....

Date: 27/03/24.



**230010 Port Street**  
**MS006 Installation of Unitised Frames**  
**using Mini-Crane & Launching table**  
**(To be read in conjunction with LP 003 rev 00)**  
**METHOD STATEMENT & RISK ASSESSMENT**



|                                                       |                      |                                                           |             |
|-------------------------------------------------------|----------------------|-----------------------------------------------------------|-------------|
| <b>Karl McCarthy</b><br>Focchi Site Manager           |                      | <b>Sebastian Drehuta</b><br>SKYKLASS Manager / Supervisor |             |
| Signature:                                            |                      | Signature:                                                |             |
| <b>Carlo Alberto Pacini</b><br>Focchi Project manager |                      | <b>Peter bean</b><br>Focchi health and safety manager     |             |
| Signature:                                            |                      | Signature:                                                |             |
| <b>Project</b>                                        | <b>Document code</b> | <b>Revision</b>                                           | <b>Date</b> |
| Port Street                                           | MS- 006              | 00                                                        | 27/02/2024  |

MS006 Installation of Unitised Frames Using Mini-Crane & Launch Table





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## METHOD STATEMENT & RISK ASSESSMENT

### SAFETY METHOD STATEMENT

|                                                                                               |                    |                                                                                                                                                                                                                                                                                                        |                                |
|-----------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| PROJECT: <b>Port Street</b>                                                                   |                    | MAIN CONTRACTOR: <b>RENAKER</b>                                                                                                                                                                                                                                                                        |                                |
| METHOD STATEMENT: <b>MS - 006</b>                                                             |                    | REVISION: <b>00</b>                                                                                                                                                                                                                                                                                    | PACKAGE No: <b>230010</b>      |
| WRITTEN BY: <b>Karl McCarthy</b>                                                              |                    | TEL: <b>07751 955246</b>                                                                                                                                                                                                                                                                               | DATE: <b>27-02-2024</b>        |
| TITLE: <b>MS - 006 Installation of unitized frames using Mini-Crane with launching table.</b> |                    |                                                                                                                                                                                                                                                                                                        |                                |
| LOCATION OF WORK: <b>Port Street, Manchester.</b>                                             |                    |                                                                                                                                                                                                                                                                                                        |                                |
| START DATE: <b>18.03.2024</b>                                                                 |                    | DURATION: <b>36 Weeks (approx.)</b>                                                                                                                                                                                                                                                                    | FINISH DATE: <b>19.11.2024</b> |
| PROGRAMME:                                                                                    |                    |                                                                                                                                                                                                                                                                                                        |                                |
| WORKING HOURS: <b>Mon-Fri from 7:30 to 18:00</b>                                              |                    |                                                                                                                                                                                                                                                                                                        | NIGHT SHIFT: <b>N/A</b>        |
| SCOPE OF WORKS: <b>Panel Installation.</b>                                                    |                    |                                                                                                                                                                                                                                                                                                        |                                |
| LIFT SUPERVISOR                                                                               | <b>S. Drehuta</b>  | INSTALLATION SUPERVISOR                                                                                                                                                                                                                                                                                | <b>N. Nastasa</b>              |
| FOCCHI MANAGER/AP                                                                             | <b>K. McCarthy</b> | LOGISTICS SUPERVISOR                                                                                                                                                                                                                                                                                   | <b>C. Dumitrascu</b>           |
| SUBCONTRACTORS TO CARRY OUT THE WORKS AND NUMBER OF OPERATIVES:                               |                    |                                                                                                                                                                                                                                                                                                        |                                |
| Skyklass Limited                                                                              | <b>No: 8 - 10</b>  |                                                                                                                                                                                                                                                                                                        |                                |
| MATERIALS TO BE USED:                                                                         |                    | PLANT & EQUIPMENT TO BE USED:                                                                                                                                                                                                                                                                          |                                |
| <b>Panels, Gaskets, Pressings, 791 Sealant &amp; Cleaning Products.</b>                       |                    | <b>Crowd Control Barriers, harnesses, Guard handrail system, Horizontal safety lines with fall restraint lanyard, Hand Tools, and Torque Wrench. Pallet trucks, Electric Stacker, trolleys, crowd control barriers, Mini Crane Galizia G20, Spider Crane, launching table, Electric pallet trucks.</b> |                                |

| Permit Required |                  |     |    |          | Assessment      |     |    |          |
|-----------------|------------------|-----|----|----------|-----------------|-----|----|----------|
| ITEM            | DESCRIPTION      | YES | NO | ATTACHED |                 | YES | NO | ATTACHED |
| 1               | ROAD CLOSURE     |     | X  |          | COSHH           | X   |    | X        |
| 2               | HOT WORKS        |     | X  |          | MANUAL HANDLING | X   |    | X        |
| 3               | ACCESS TO ROOF   |     | X  |          | NOISE           |     | X  |          |
| 4               | OTHERS (Specify) |     | X  |          |                 |     |    |          |
| 5               |                  |     |    |          |                 |     |    |          |
|                 |                  |     |    |          |                 |     |    |          |



## SEQUENCE OF WORK OPERATIONS

### Pre-start notes:

1. All PUWER & LOLER Equipment and Plant inspections to be carried out daily and documented, issued weekly to RENAKER Construction.
2. All Hard Hats MUST have a chin strap secured always when working at the leading edge.
3. Task specific Glasses and gloves are to be worn when carrying out the task.
4. Only competent Crane, Slinger, Lift supervisor & Appointed operatives are to carry out Lifting operations who must be CPC (not CPCS) or equivalent trained. **See LP03 rev00.**
5. Spill kits are to be available for relevant incidents involving loss of liquids from Plant equipment.
6. All tools are to be tethered, restraint lanyards used always for leading edge/working at height tasks, all tethers must be suitable and checked for weight compliance.
7. FOCCHI QA (ITP) process to be implemented in conjunction with RENAKER Construction.
8. Reference to the setting out of each floor within the comment section of the panel ITP's.
9. All lifting operations to be carried out in accordance with **LP003 rev00.**

### Before task starts:

1. All personnel must attend RENAKER Construction site induction prior to commencement of the works.
2. All operative who are to undertake any work described in this Method Statement & Risk Assessment works will have the content of this document explained to them and will sign to confirm their full understanding of all tasks, procedures and risks described and or detailed herein.
3. All operative's will receive a daily task briefing/safe to start, which outlines their activities for the day and provides additional opportunity for them to raise any concerns with their supervisor.
4. All operatives MUST review and fully understand the Logistic Plan for slab load bearings.
5. Levels once handed over by RENAKER, where Unit Installation will take place will be closed off with no access to anyone. Only Skyclass / Focchi personnel are permitted in the working areas / exclusion zones, subject to (BTS – item 6).
6. A localized exclusion zone will be established always around the working area. This will be made up of crowd control barriers with safety signage attached warning of operations being carried out, which will prevent any non Focchi workers to come into this exclusion zones.
7. **RENAKER management & Visiting H&S Advisors to be allowed into any zones only when agreed with FOCCHI Appointed Person or Lift Supervisor, who will advise when, where and what movements are permitted for the safety of everyone concerned. Please note personnel entering the exclusion zones for observation inspection will not be required to wear Harness & Lanyards.**
8. **if leading edge protection is still in place with open edges, no one apart from FOCCHI personnel will be permitted within the localised exclusion zone.**
9. Unitised Panels will be already in location on the designated slab as per FOCCHI Logistics Plan.
10. The Installation location's at: Above (Mini Crane level), At (Launch Table level) and Below (Safety Drop Zone ground floor & level 4) will be barriered off to form exclusion/drop zones. The dimension of the exclusion zone will be agreed at weekly co-ordination meetings for works being carried out the following week and implemented prior to commencement of works. If the installation takes place above a pedestrian route Focchi will advise RENAKER Construction, who will arrange a temporary safety route to allow entry/exit from the building.
11. Barriers will be implemented with adequate signage around working zones.



12. Ground Floor exclusion zones will be set, but jointly managed and monitored by FOCCHI during the working day. FOCCHI operatives must ensure that exclusion zones are in place and policed at the ground floor & Level 4 before any lifting operations take place.
13. A Scissor Safe Anchor points with Horizontal Safety Line (HSL) working system will be in place within an established localized exclusion zone, before the Guards are removed from the rails by Focchi operatives attached to the Horizontal Lifeline which Conforms to EN365 and EN 795 Class B, with a work restraint lanyard and a full body harness.
14. All operative's must be competent (Training and Experience) for 'working at height' and for using all working at height PPE, Scissor Safe Anchors, Horizontal Safety Line (HSL), Tool Tethers & Tools.
15. Operative Training Matrix is held in the Focchi site office.

## SEQUENCE OF WORK OPERATIONS

1. When working close to a leading edge any items of equipment will be secured to the user with a suitable lanyard/tool tether, no loose materials and or equipment will be stored within the localised exclusion zone.
2. All tools must be tethered with a suitable tether before the edge protection system will be repositioned by FOCCHI operatives.
3. All work activities in these areas will now be done with the operatives wearing a full body harness attached to a fall prevention horizontal safety line system using a work positioner/adjustable lanyard, adjusted accordingly.
4. The installation of units with the mini crane and launching table is to be done from (including) level 5 to the Roof.
5. PPE to be always worn, chin straps must always be fastened whilst working on the leading edge, gloves and glasses are task specific.
6. All units will be already in location on the installation floor as per the FOCCHI schedule.
7. In coordination with **LP-003 rev 00**, Units will be decanted off the stillage via electric stacker with decanting frame.

### Step 1.

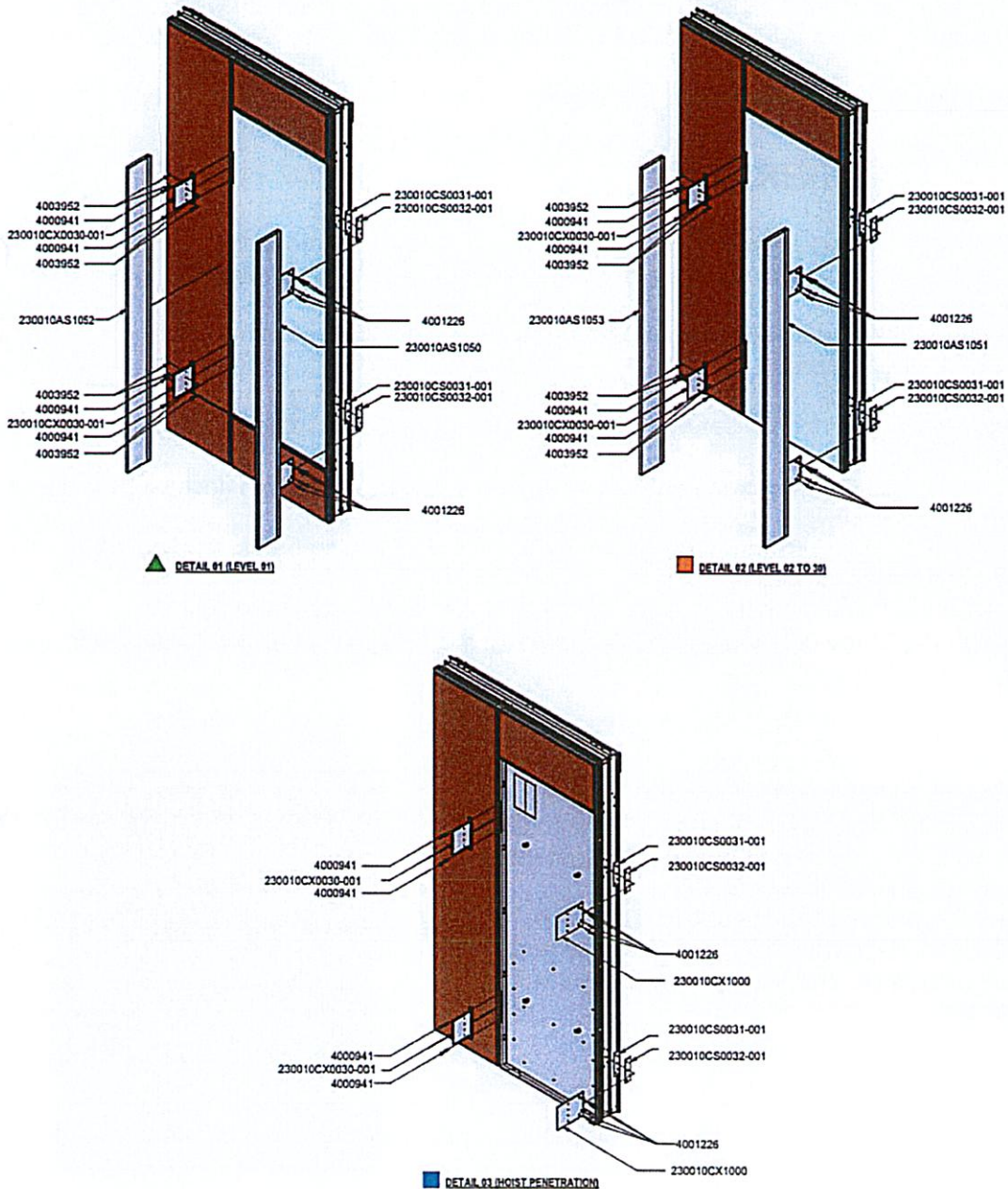
8. Operatives will decant panels from the stillages using the stacker with attached lifting frame and slings in a basket configuration.
9. Retaining transit bolts will be realeased from each panel using a cordless impact wrench (HAV to be recorded).
10. The panel will then be cleaned and checked for damage.
11. Once satisfied the unit will be raised using the stacker and placed on top of the launching table. The Vertical Key Gasket will be installed and greased.





## Step 2.

12. Vertical fins will at this point be attached to the side of the unit, and secured as per the FOCCHI detail.



13. **HOLD POINT** – ITP Checks.



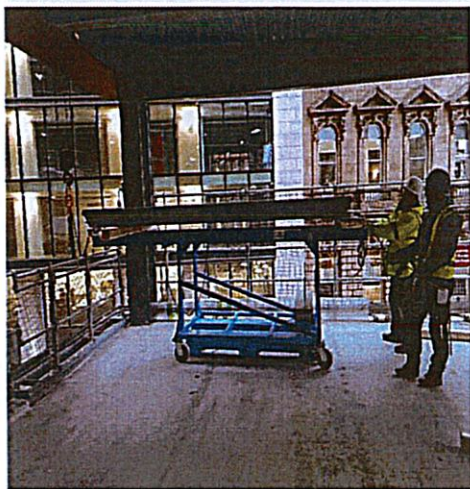
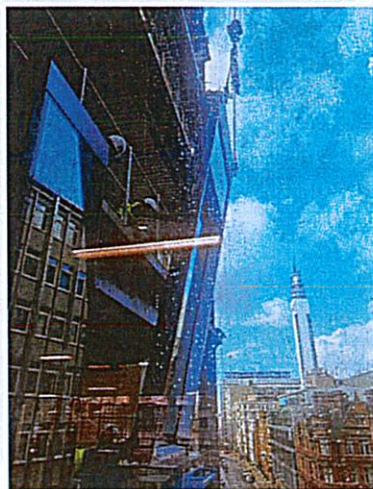
## Step 2.

14. Operatives will bring the launch table, in line to the panel launch position.

NOTE: The electric pallet truck will act as an additional counterweight for the launching table in addition to the table counterweights, to the underside of the forks to ensure that table doesn't flip or tilts when taking the weight of the Frame as being launched.

## Step 3. (Read in conjunction with (LP 003 rev 00))

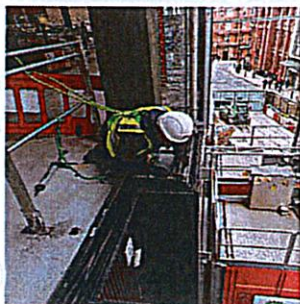
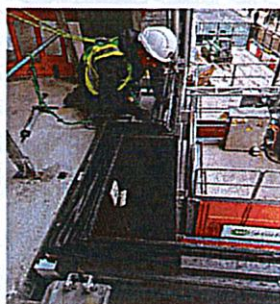
15. The launching table will be pushed to the installation position, the slinger will direct the crane operator to lower the hook.
16. When available the slinger will attach the chains/lifting beam to the hook of the crane, the slinger will then raise the lifting gear.
17. The slinger will now attach the lifting gear to the unit using FOCCHI specialist securing chains, securing the lifting equipment onto the frame, tag lines will be also attached to control the unit.
18. A wind check will be carried out with an anemometer, once satisfied the Slinger will signal the load to be raised while operatives push the trolley table out, once the panel is clear of the launch table the operatives will then assist with controlling the unit with the Tag Lines.
19. Once the panel is completely vertical and clear of the table the panel will be rotated 180 degrees.
20. The slinger will direct the crane operator to lower the panel down and into its final position.
21. Two operatives will be positioned at the top and at the bottom of the unit to guide in the panel into the brackets (Top) and engaged with the panel below (Bottom).
22. Once secure the Slinger will signal the crane operator to lower the Hook to allow the release of the lifting gear.
23. Operatives will Level the units to the correct Datum for each floor as per the FOCCHI drawing using a dumpy or laser level.
24. The Joining keys will then be slid down between the units where applicable as per the FOCCHI dwg's. When installing the joint profile operatives will tether the joint sleeve to the harness and slid it from the top.
25. **HOLD POINT** – Carry out ITP Checks.





#### Step 4.

26. Installation of Saddle Gasket. Once the installation of the panel is complete & levelled, operatives will then install the saddle gasket as per the FOCCHI installation methodology, and split mullion cavity barrier.



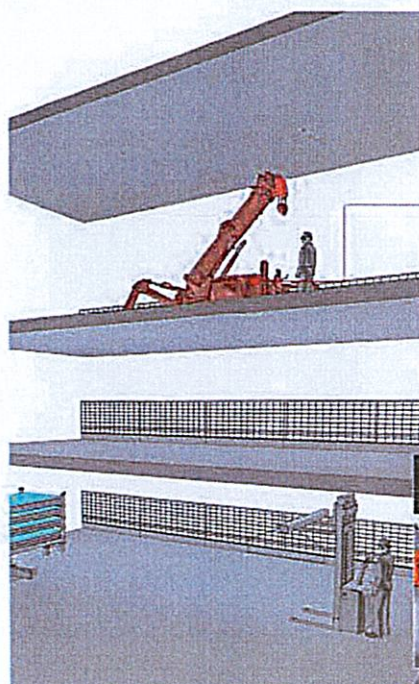
**HOLD POINT** – FOCCHI to carry out ITP Checks.

#### Note:

- Lifting of Panels will be done using certified Bespoke FOCCHI lifting chains connected to the lifting connection brackets.

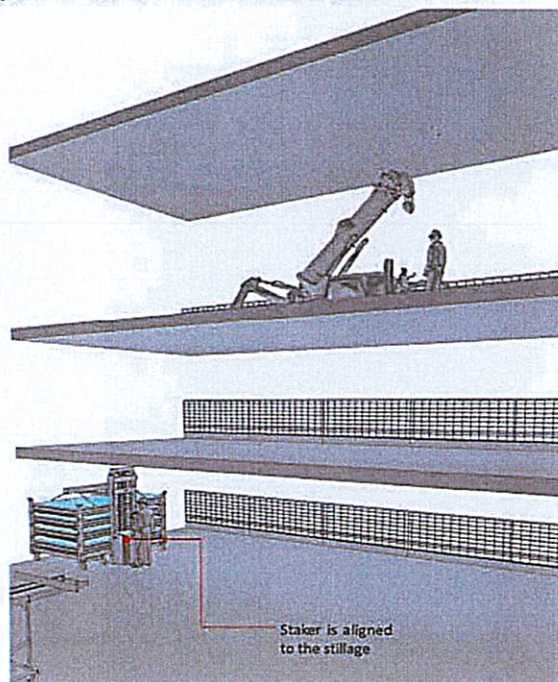
#### INSTALLATION METHODOLOGY (Set Up, Decanting & Loading Sequence)

**1** Materials and equipment are moved to the installing floor by hoist



A minicrane operates two (or more) floor above the launching level and the unit is hooked by the lifting equipment.

**2** The staker is aligned perpendicular to the stillage and webbing sling is attached to the top unit

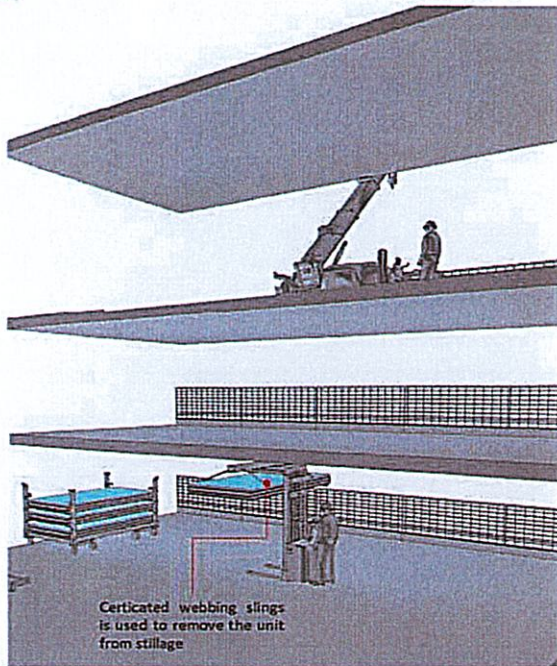


Staker is aligned to the stillage

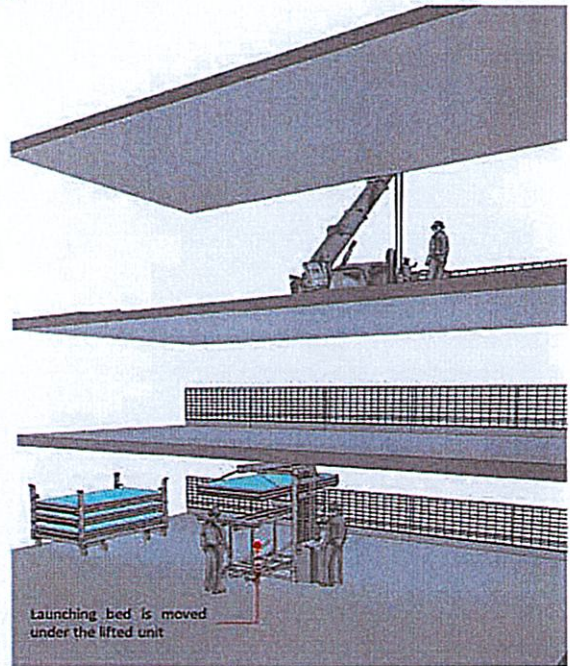


## METHODOLOGY (Set Up, Decanting & Loading Sequence) cont'

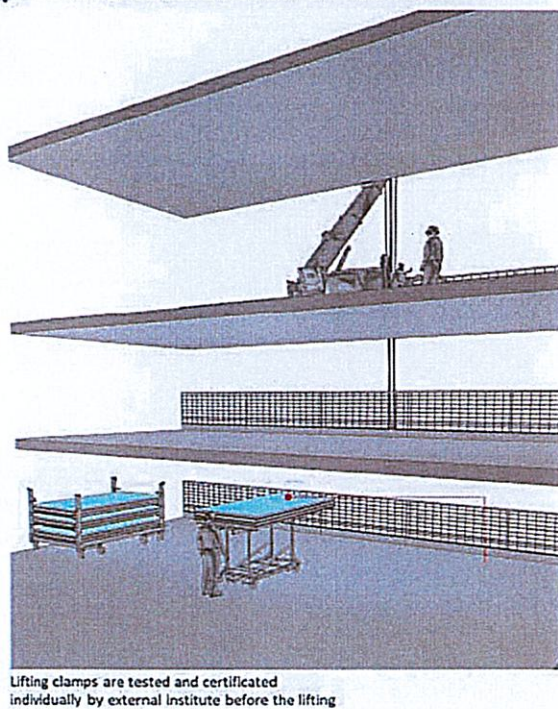
### 3 The unit is removed from the stillage



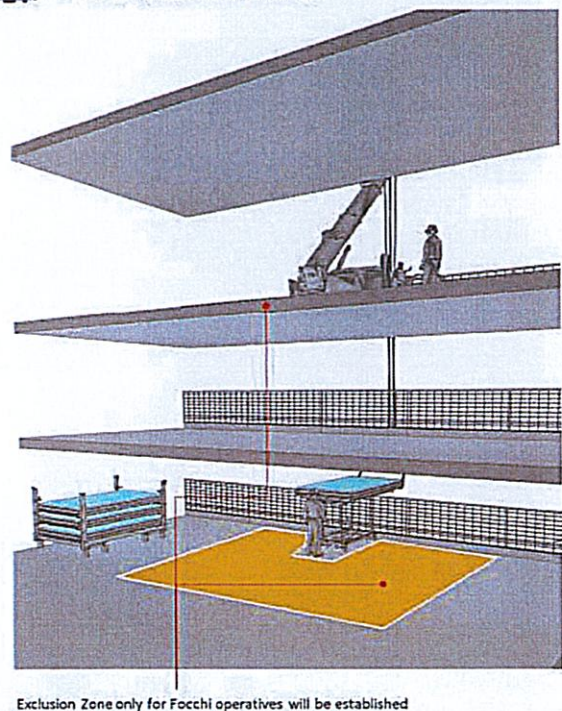
### 4 The unit is landed on launching bed



### 5 The finishing of the unit is applied on the launching bed. The lifting clamps are locked on the male transom



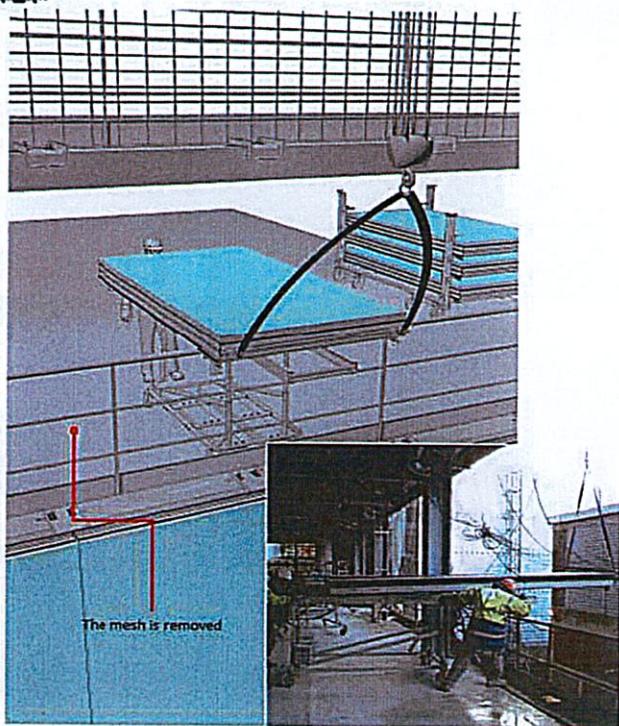
### 6 The launching bed is moved towards the slab edge, then the slinger prepares the lifting



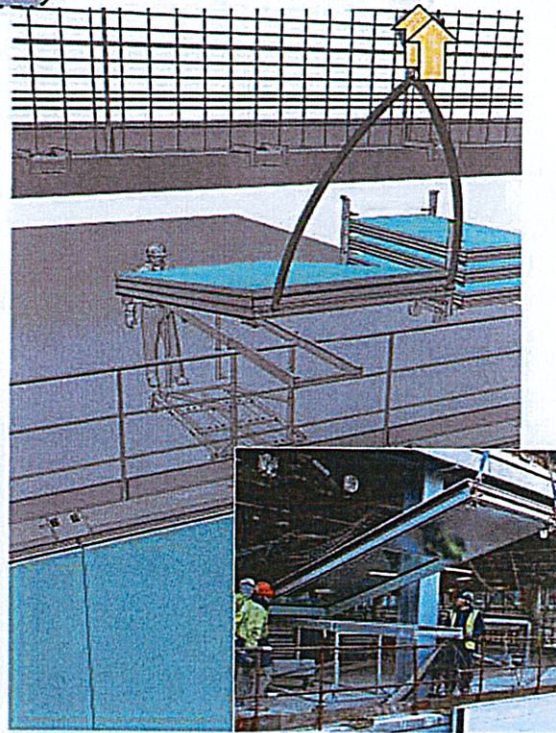


**METHODOLOGY (Set Up, Decanting & Loading Sequence) cont'**

- 1** The unit is rised out by launching bed's beam



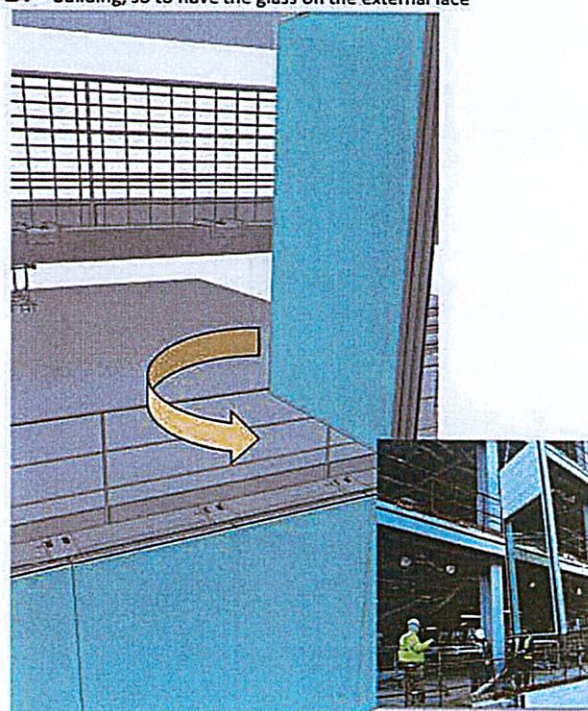
- 2** The unit is lifted up by the minicrane



- 3** The cladding unit is lifted out of the building, and is controlled with tag lines at all times



- 4** The cladding unit is rotated 180 degrees, clear of the building, so to have the glass on the external face





## FIRST AID AND RESCUE

|                                                           |                   |                                          |
|-----------------------------------------------------------|-------------------|------------------------------------------|
| FIRST AIDER                                               | Karl McCarthy     | 07751 955246                             |
| APPOINTED PERSON                                          | Karl McCarthy     | 07751 955246                             |
| LIFT SUPERVISOR                                           | Sebastian Drehuta | 07557 041316                             |
| FIRST AID ROOM LOCATION (where applicable):               |                   | FOCCHI Site Office 2 <sup>nd</sup> Floor |
| SITE LOCATION: <b>Port Street, Manchester.</b>            |                   |                                          |
| SPECIFIC RESCUE / SECURITY MEASURES REQUIRED: <b>NONE</b> |                   |                                          |

## AMENDMENTS TO METHOD STATEMENT

|     |           |       |       |
|-----|-----------|-------|-------|
| BY: | REVISION: | DATE: | SIGN: |
|     |           |       |       |

### CONFIRMATION FROM OPERATIVES CARRYING OUT WORKS

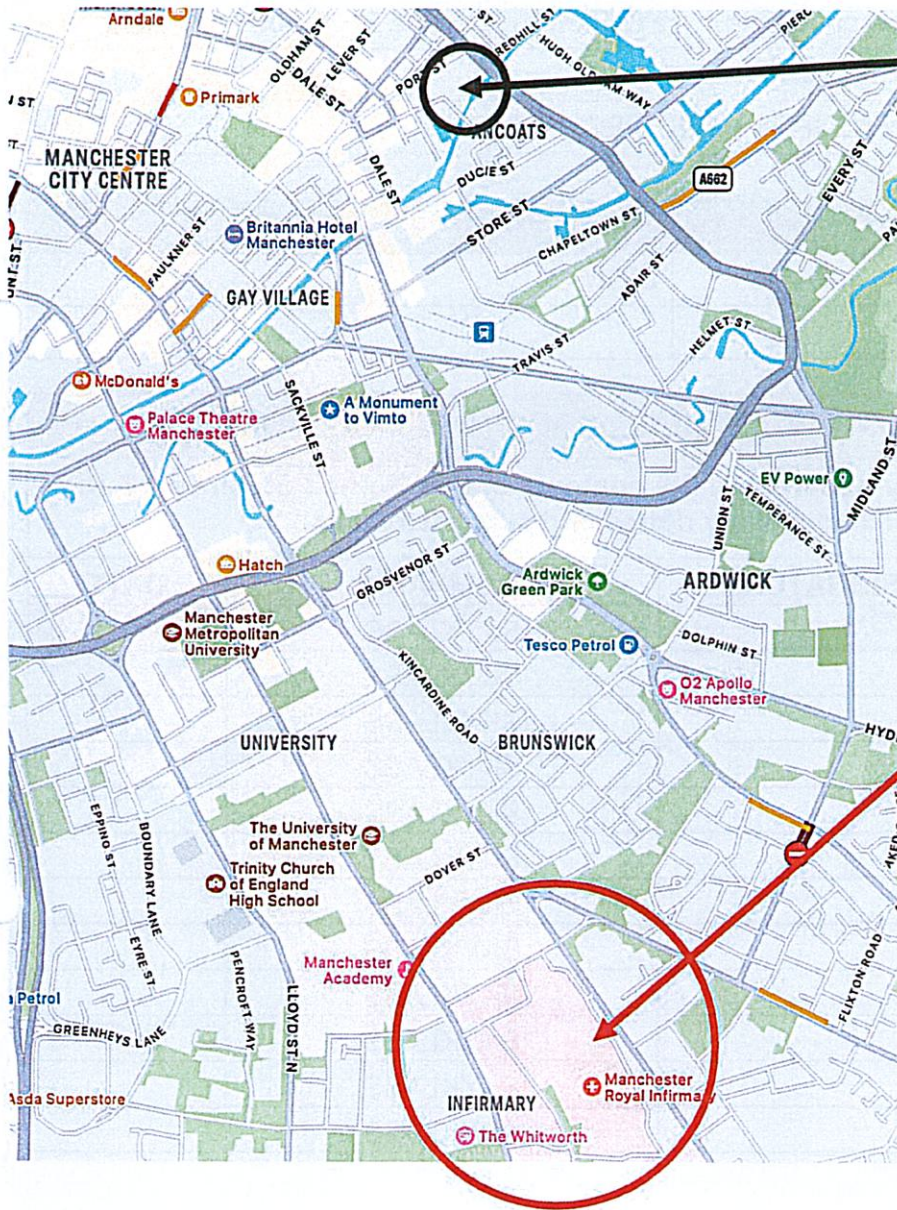
**I confirm that I have read and fully understood the contents of this Method Statement & Risk Assessment and I accept my duties and responsibilities.**

[illegible]



## A & E Department

|          |                                        |            |                    |
|----------|----------------------------------------|------------|--------------------|
| Location | <b>Manchester A &amp; E Department</b> | Contact No | Tel: 1061 276 4147 |
| Address  | , Oxford Road, Manchester. M13 9WL     |            |                    |



One Port Street - RENAKER

Manchester Royal Infirmary

## ADDITIONAL NOTE

**No works to be carried out over Other Trades/Operatives, stop works immediately and speak to your manager!**



## RESCUE PLAN

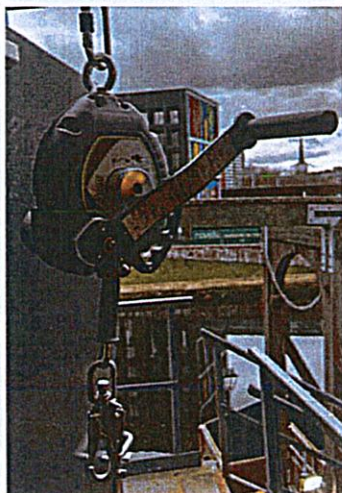
### Option 1:

A 5m Rescue ladder will be attached to the HSL System and deployed down to the operative, the operative will then climb back up to safety, assisted by 2no operatives.

### Option 2:

The Kratos Olympe 10m Retractable Fall Arrester with Integrated rescue winch already attached onto the HSL, as this allows for inline alignment for deployment, a Tethered Rope edge protector, will be placed on the leading edge to protect the cable/rope from the slab edge.

when deployed, the fallen operative will grab hold of the line attached to the attachment clip, and pull down the Kratos line with carabiner, he will then attach the carabiner on to his harness, and when satisfied, signal the operatives above to retract the cable using the winch mode, lifting him to safety.



**Unconscious operatives:** An ambulance will be called 999 or 112 immediately, the operative will be pulled to safety, the first Aider will assess then place the unconscious operative into the recovery position awaiting the emergency services to attend site. A FOCCHI operative will be waiting by the site entrance to escort the emergency team up to where the operative is positioned. The Emergency team will then advise the course of action required.

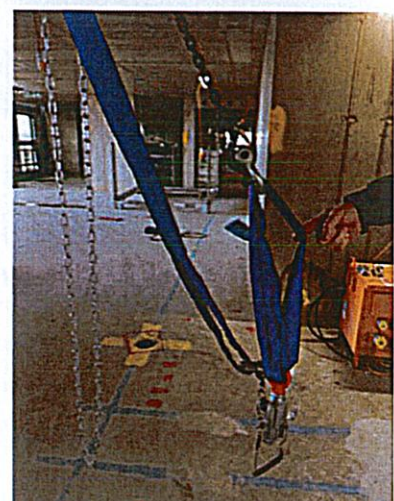


## INSTALLATION SEQUENCE FOR TOWER CRANE LOCATION TIES

(TC) Tower Crane (CO) Crane Operator (SS) Slinger Signaller (LS) Lift supervisor

1. The Lifting accessories will be fitted as per LP03, Diagram below (for visual reference only).
2. Pre-Installation QA Inspections will be carried out.
3. Exclusion Zones of barriers will be erected around crane level, launch table level, tie level & Ground Floor drop zone.
4. All lifting operations will be managed by the (LS) as per the lift plan.
5. Elements will be installed using a mini crane.
6. The (SS), positioned by the panel, will advise the (CO) to lower the hook block, the (SS) will attach the lifting accessories as per the lift plan.
7. Once satisfied, the (SS) will advise the (CO) to raise the load until clear of the launch table, at that point the unit will be rotated 180 Degrees.
8. The (SS) will signal the (CO) to lower the unit, so that the top of the unit is just below the underside of the tower crane tie, tight up against the side.
9. The rigging procedure will then be followed as per the lift plan to enable the unit to be installed.
10. Only when the unit has been secured to the brackets, the lifting accessories will be released.
11. This rigging procedure will be repeated applicable only to (TC) tie positions.

**RIGGING CONFIGURATION – (Refer to LP03 Lift sequence.)**





|                                       |                         |     |
|---------------------------------------|-------------------------|-----|
| <b>MANUAL HANDLING<br/>ASSESSMENT</b> | Project Name:           | Nr. |
|                                       | Port Street, Manchester | 1   |

|                              |                                |
|------------------------------|--------------------------------|
| <b>DESCRIPTION OF WORKS:</b> | Lightweight items (max. 40 kg) |
|------------------------------|--------------------------------|

### SECTION 1

|                                                                                                                                                                                                                      |          |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|
| Is there any significant risk of injury?<br>(If the answer is no, the assessment need go no further.)                                                                                                                | YES<br>X | NO      |
| Can the operation be avoided / mechanized / automated and is it reasonably practicable to do so?<br>(If the answer is yes, proceed with work and check result is satisfactory. If the answer is no, go to section 2) | YES      | NO<br>X |

### SECTION 2

| The tasks – do they involve:              | YES | NO | Working Environment – are there:                                                            | YES | NO |
|-------------------------------------------|-----|----|---------------------------------------------------------------------------------------------|-----|----|
| Holding the load away from chest?         | X   |    | Constraints on posture?                                                                     |     | X  |
| Twisting                                  |     | X  | Poor flooring?                                                                              |     | X  |
| Stooping?                                 | X   |    | Variations in levels?                                                                       |     | X  |
| Reaching upwards?                         |     | X  | Hot / Cold / Humid conditions?                                                              |     | X  |
| Large vertical movements?                 |     | X  | Strong air movements?                                                                       |     | X  |
| Long carrying distances?                  |     | X  | Inclement weather conditions?                                                               |     | X  |
| Strenuous movement of loads?              |     | X  | Poor lighting conditions?                                                                   |     | X  |
| Unpredictable movement of loads?          |     | X  |                                                                                             |     |    |
| Repetitive handling?                      | X   |    | <b>Individual Capability – Does the job:</b>                                                | YES | NO |
| Insufficient rest or recovery?            |     | X  | Require unusual capability?                                                                 |     | X  |
| A work rate imposed by a process?         |     | X  | Hazard those with a health problem?                                                         |     | X  |
|                                           |     |    | Hazard those who are pregnant?                                                              |     | X  |
| <b>The loads – are they:</b>              | YES | NO | Call for special training?                                                                  |     | X  |
| Heavy?                                    | X   |    |                                                                                             |     |    |
| Bulky / Unwieldy?                         |     | X  | <b>Individual Capability – Does the job:</b>                                                | YES | NO |
| Difficult to grasp?                       |     | X  | Is movement or posture restricted or hindered by clothing or personal protective equipment? |     | X  |
| Unstable / unpredictable?                 |     | X  |                                                                                             |     |    |
| Intrinsically harmful (e.g., sharp / hot) |     | X  |                                                                                             |     |    |

### SECTION 3 – OVERALL ASSESSMENT OF RISK

|                                                                                                |     |        |      |
|------------------------------------------------------------------------------------------------|-----|--------|------|
| What is your overall assessment of the risk of injury?                                         |     |        |      |
| INSIGNIFICANT                                                                                  | LOW | MEDIUM | HIGH |
| (If "Insignificant" the assessment need go no further. If Low / Medium / High go to section 4) |     |        |      |

### SECTION 4 – REMEDIAL ACTION

|                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All operatives involved in this operation have been fully trained in manual handling and kinetic lifting. They also have been fully briefed in the safe system of work for this operation. 2 no operatives to lift individual pieces are required. Operatives to only lift what they feel comfortable lifting. All lifting activities to be monitored. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                                   |                         |     |
|-----------------------------------|-------------------------|-----|
| <b>MANUAL HANDLING ASSESSMENT</b> | Project Name:           | Nr. |
|                                   | Port Street, Manchester | 2   |

|                              |                                |
|------------------------------|--------------------------------|
| <b>DESCRIPTION OF WORKS:</b> | Lightweight items (max. 25 kg) |
|------------------------------|--------------------------------|

### SECTION 1

|                                                                                                                                                                                                                      |     |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| Is there any significant risk of injury?<br>(If the answer is no, the assessment need go no further.                                                                                                                 | YES | NO |
|                                                                                                                                                                                                                      | X   |    |
| Can the operation be avoided / mechanized / automated and is it reasonably practicable to do so?<br>(If the answer is yes, proceed with work and check result is satisfactory. If the answer is no, go to section 2) | YES | NO |
|                                                                                                                                                                                                                      |     | X  |

### SECTION 2

| The tasks – do they involve:              | YES | NO | Working Environment – are there:                                                            | YES | NO |
|-------------------------------------------|-----|----|---------------------------------------------------------------------------------------------|-----|----|
| Holding the load away from chest?         | X   |    | Constraints on posture?                                                                     |     | X  |
| Twisting                                  |     | X  | Poor flooring?                                                                              |     | X  |
| Stooping?                                 | X   |    | Variations in levels?                                                                       |     | X  |
| Reaching upwards?                         |     | X  | Hot / Cold / Humid conditions?                                                              |     | X  |
| Large vertical movements?                 |     | X  | Strong air movements?                                                                       |     | X  |
| Long carrying distances?                  |     | X  | Inclement weather conditions?                                                               |     | X  |
| Strenuous movement of loads?              |     | X  | Poor lighting conditions?                                                                   |     | X  |
| Unpredictable movement of loads?          |     | X  |                                                                                             |     |    |
| Repetitive handling?                      | X   |    | Individual Capability – Does the job:                                                       | YES | NO |
| Insufficient rest or recovery?            |     | X  | Require unusual capability?                                                                 |     | X  |
| A work rate imposed by a process?         |     | X  | Hazard those with a health problem?                                                         |     | X  |
|                                           |     |    | Hazard those who are pregnant?                                                              |     | X  |
| The loads – are they:                     | YES | NO | Call for special training?                                                                  |     | X  |
| Heavy?                                    | X   |    |                                                                                             |     |    |
| Bulky / Unwieldy?                         |     | X  | Individual Capability – Does the job:                                                       | YES | NO |
| Difficult to grasp?                       |     | X  | Is movement or posture restricted or hindered by clothing or personal protective equipment? |     | X  |
| Unstable / unpredictable?                 |     | X  |                                                                                             |     |    |
| Intrinsically harmful (e.g., sharp / hot) |     | X  |                                                                                             |     |    |

### SECTION 3 – OVERALL ASSESSMENT OF RISK

|                                                                                                |     |        |      |
|------------------------------------------------------------------------------------------------|-----|--------|------|
| What is your overall assessment of the risk of injury?                                         |     |        |      |
| INSIGNIFICANT                                                                                  | LOW | MEDIUM | HIGH |
| (If "Insignificant" the assessment need go no further. If Low / Medium / High go to section 4) |     |        |      |

### SECTION 4 – REMEDIAL ACTION

|                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All operatives involved in this operation have been fully trained in manual handling and kinetic lifting. They also have been fully briefed in the safe system of work for this operation. 1 no operatives to lift individual pieces are required. Operatives to only lift what they feel comfortable lifting. All lifting activities to be monitored. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|





Sherlock House  
7 Kenrick Place  
London W1U 6HE  
Tel: 020 7224 2934  
Fax: 020 7487 5732  
E-mail: info@focchiltd.co.uk

## METHOD STATEMENT & RISK ASSESSMENT

### Risk Assessment - Awareness of Lifting and Plant Operations

| Location/Site: |                             | Port Street, Manchester  |   |   |   |   |                 |   |   |   |   | Date:                       |                          | 27.02.2024 |   |   |   |  |
|----------------|-----------------------------|--------------------------|---|---|---|---|-----------------|---|---|---|---|-----------------------------|--------------------------|------------|---|---|---|--|
| HAZARD         |                             | INITIAL ASSESSMENT       |   |   |   |   |                 |   |   |   |   |                             |                          |            |   |   |   |  |
|                |                             | PROBABILITY OF OCCURANCE |   |   |   |   | HAZARD SEVERITY |   |   |   |   | CUMULATIVE SCORE<br>HS x PO | PROBABILITY OF OCCURANCE |            |   |   |   |  |
|                |                             | 5                        | 4 | 3 | 2 | 1 | 6               | 5 | 4 | 3 | 2 |                             | 1                        | 5          | 4 | 3 | 2 |  |
| 1              | Struck by loads or plant    |                          |   | ✓ |   |   |                 | ✓ |   |   |   |                             |                          | 24         |   |   |   |  |
| 2              | Struck by falling materials |                          |   |   |   | ✓ |                 | ✓ |   |   |   |                             |                          | 12         |   |   |   |  |

**HAZARD RATING** - Hazard is potential to cause harm & Risk is probability of harm occurring.

**PROBABILITY OF OCCURANCE:** 5 = inevitable 4 = very likely 3 = likely 2 = unlikely 1 = very unlikely

**HAZARD SEVERITY:** 6 = Multiple 5 = fatal 4 = major 3 = minor. 2 = slight 1 = no injury

#### CUMULATIVE SCORE EXPLANATIONS

**INTOLERABLE** - Work prohibited - An activity that is likely to lead to major or fatal injury / serious health problems (20-30)

**SUBSTANTIAL** - Halt work until risk has been reduced - An activity that could lead to time of work through serious injury/significant material damage (15-20)

**MODERATE** - Make efforts to reduce the risk - an activity resulting in an injury/ some material damage (10-15)

**TOLERABLE** - Control and monitor - An activity resulting in the risk of a minor injury (5-10)

**ACCEPTABLE** - No action required - No risk of injury (0-5)

|                         |                            |
|-------------------------|----------------------------|
| Typical Equipment Used: | Can Task Be Eliminated?    |
| N/A                     |                            |
| Typical Materials Used: | COSHH Assessments Required |
| N/A                     |                            |





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## METHOD STATEMENT & RISK ASSESSMENT

### PPE Requirements

|                                                                                     |                                                      |   |                                                                                     |                                                  |               |                                                                                       |                 |
|-------------------------------------------------------------------------------------|------------------------------------------------------|---|-------------------------------------------------------------------------------------|--------------------------------------------------|---------------|---------------------------------------------------------------------------------------|-----------------|
|    | Safety Helmet EN 397                                 | ✓ |    | Eye Protection (spectacles)<br>EN166 1F          | ✓             |    | Hi-Vis<br>EN 4' |
|                                                                                     | Colour/s                                             |   |                                                                                     |                                                  |               |                                                                                       |                 |
|    | Safety Boots – Toecap & Midsole Protection<br>EN 345 | ✓ |    | High Impact Eye Protection (goggles)<br>EN166 1B |               |    | Hi-Vis<br>EN 4' |
|    | Hearing Protection - Ear Plugs<br>EN 352-2           |   |    | Face Shield<br>EN 166 1B                         |               |    | Hi-Vis<br>EN 4' |
|    | Hearing Protection - Ear Muffs<br>EN 352-1           |   |    | Welding Mask<br>EN175/EN379                      |               |    | Hi-Vis<br>EN 4' |
|    | Protective Gloves (General)<br>EN 388                | ✓ |    | Dust Mask FFP1                                   |               |    | Task<br>Speci   |
|    | Protective Gloves (Chemical Resistant)<br>EN 374-2/3 |   |    | Face Mask FFP2                                   |               |                                                                                       | Le<br>EN 3:     |
|    | Guantlets (Chemical Resistant)<br>EN 374-2/3         |   |    | Face Mask FFP3                                   |               |                                                                                       | Rope<br>EN 3:   |
|   | Welding Guantlets (Heat Resistant)<br>EN 511         |   |   | Close Fit Filtered Face Mask EN 140              |               |   | Fixed<br>EN 3:  |
|                                                                                     |                                                      |   |                                                                                     | State Filter/s                                   | Face Fit Test | Yes                                                                                   | No              |
|  | Pierce Resistant Gloves<br>EN 407                    |   |  | Full Face Filtered Mask EN 136                   |               |  | Energy<br>(Lany |
|                                                                                     |                                                      |   |                                                                                     | State Filter/s                                   | Face Fit Test | Yes                                                                                   | No              |
|                                                                                     |                                                      |   |  | Self-Contained Breathing Apparatus EN 137 & 138  |               |  | Safety<br>EN 3: |





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## METHOD STATEMENT & RISK ASSESSMENT

| CONTROL MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |               |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------|-----------------------------|
| <b>Actions Required to Reduce or Eliminate Risk</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |               |                             |
| <p>Operatives will only use designated safe pedestrian routes.</p> <p>All operatives will undergo a daily "Safe Start" briefing before commencing works.</p> <p>All operatives will reference site notice boards to identify any restrictions that may apply to the area they intend to access.</p> <p>Exclusion zones and works by others will be respected and not breached.</p> <p>Operatives will be observant of plant / equipment movement.</p> <p>Operatives will be observant and keep clear of plant operations.</p> |  |               |                             |
| <b>Additional / Extraordinary Measures Required:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |               | <b>Action By:</b>           |
| None generally but review for specific situations on individual sites.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |               | -                           |
| <b>Monitoring Results</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |               |                             |
| <p>Due to the nature of the residual risks, Focchi Supervisors are required to manage these works to ensure controls remain effective. Any changes identified as part of this process are to be notified to the Focchi Site Manager for review and re-issue of this Risk Assessment should be stopped whilst this review is carried out.</p>                                                                                                                                                                                  |  |               |                             |
| <b>Assessment Conducted By:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Karl McCarthy | <b>Controls Checked by:</b> |



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## METHOD STATEMENT & RISK ASSESSMENT

### Risk Assessment – Working at height

| Location/Site: |                         | Port Street, Manchester   |   |   |   |   |   |                 |   |   |   | Date: |                             | 27.02.2024 |                           |   |   |   |
|----------------|-------------------------|---------------------------|---|---|---|---|---|-----------------|---|---|---|-------|-----------------------------|------------|---------------------------|---|---|---|
| HAZARD         |                         | INITIAL ASSESSMENT        |   |   |   |   |   |                 |   |   |   |       |                             |            |                           |   |   |   |
|                |                         | PROBABILITY OF OCCURRENCE |   |   |   |   |   | HAZARD SEVERITY |   |   |   |       | CUMULATIVE SCORE<br>HS x PO |            | PROBABILITY OF OCCURRENCE |   |   |   |
|                |                         | 5                         | 4 | 3 | 2 | 1 | 6 | 5               | 4 | 3 | 2 | 1     |                             |            | 5                         | 4 | 3 | 2 |
| 1              | Fall of person          |                           |   | ✓ |   |   | ✓ |                 |   |   |   |       |                             | 18         |                           |   |   |   |
| 2              | Fall of Tools/Materials |                           |   | ✓ |   |   |   | ✓               |   |   |   |       |                             | 15         |                           |   |   |   |

**HAZARD RATING** - Hazard is potential to cause harm & Risk is probability of harm occurring.

**PROBABILITY OF OCCURANCE:** 5 = inevitable 4 = very likely 3 = likely 2 = unlikely 1 = very unlikely

**HAZARD SEVERITY:** 6 = Multiple 5 = fatal 4 = major 3 = minor. 2 = slight 1 = no injury

#### CUMULATIVE SCORE EXPLANATIONS

**INTOLERABLE** - Work prohibited - An activity that is likely to lead to major or fatal injury / serious health problems (20-30)

**SUBSTANTIAL** - Halt work until risk has been reduced - An activity that could lead to time of work through serious injury/significant material damage (15-20)

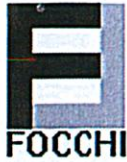
**MODERATE** - Make efforts to reduce the risk - an activity resulting in an injury/ some material damage (10-15)

**TOLERABLE** - Control and monitor - An activity resulting in the risk of a minor injury (5-10)

**ACCEPTABLE** - No action required – No risk of injury (0-5)

|                         |                            |
|-------------------------|----------------------------|
| Typical Equipment Used: | Can Task Be Eliminated?    |
| N/A                     |                            |
| Typical Materials Used: | COSHH Assessments Required |
| N/A                     |                            |





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## METHOD STATEMENT & RISK ASSESSMENT

| PPE Requirements                                                                    |                                                                    |   |                                                                                     |                                                 |               |                                                                                       |              |  |  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|-------------------------------------------------|---------------|---------------------------------------------------------------------------------------|--------------|--|--|
|    | Safety Helmet EN 397 -with chin strap if working near leading edge | ✓ |    | Eye Protection (spectacles) EN166 1F            | ✓             |    | Hi-Vis EN 4' |  |  |
|                                                                                     | Colour/s                                                           |   |                                                                                     |                                                 |               |                                                                                       |              |  |  |
|    | Safety Boots – Toecap & Midsole Protection EN 345                  | ✓ |    | High Impact Eye Protection (goggles) EN166 1B   |               |    | Hi-Vis EN 4' |  |  |
|    | Hearing Protection - Ear Plugs EN 352-2                            |   |    | Face Shield EN 166 1B                           |               |    | Hi-Vis EN 4' |  |  |
|    | Hearing Protection - Ear Muffs EN 352-1                            |   |    | Welding Mask EN175/EN379                        |               |    | Hi-Vis EN 4' |  |  |
|    | Protective Gloves (General) EN 388                                 | ✓ |    | Dust Mask FFP1                                  |               |    | Task Spec    |  |  |
|    | Protective Gloves (Chemical Resistant) EN 374-2/3                  |   |    | Face Mask FFP2                                  |               |                                                                                       | Lead EN 3:   |  |  |
|   | Guantlets (Chemical Resistant) EN 374-2/3                          |   |   | Face Mask FFP3                                  |               |                                                                                       | Rope EN 3:   |  |  |
|  | Welding Guantlets (Heat Resistant) EN 511                          |   |  | Close Fit Filtered Face Mask EN 140             |               |  | Fixed EN 3:  |  |  |
|                                                                                     |                                                                    |   |                                                                                     | State Filter/s                                  | Face Fit Test | Yes                                                                                   | No           |  |  |
|  | Pierce Resistant Gloves EN 407                                     |   |  | Full Face Filtered Mask EN 136                  |               |  | Energy (Lany |  |  |
|                                                                                     |                                                                    |   |                                                                                     | State Filter/s                                  | Face Fit Test | Yes                                                                                   | No           |  |  |
|                                                                                     |                                                                    |   |  | Self-Contained Breathing Apparatus EN 137 & 138 |               |  | Safety EN 3: |  |  |

## CONTROL MEASURES

Actions Required to Reduce or Eliminate Risk



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## METHOD STATEMENT & RISK ASSESSMENT

Operatives and contractors will only use designated safe pedestrian routes.  
All operatives will undergo a daily "Safe Start" briefing before commencing works.  
Only competent operatives will operate the equipment and carry out the work at height.  
All operative will have WAH(Working at Height Training), HSL(Horizontal Safety Line), Leading Edge, Use of Full body Harness Training.  
Any small hand-held equipment will be attached to the user with a suitable tether.  
Chin straps will be used if working close to leading edge.  
Operatives will only use designated access scaffolds / staircases for accessing works at height.  
Materials on open edges will be tethered always.  
Suitable tethers with a SWL for the load must be used.

| Additional / Extraordinary Measures Required:                          | Action By: |
|------------------------------------------------------------------------|------------|
| None generally but review for specific situations on individual sites. | -          |

### Monitoring Results

Due to the nature of the residual risks, Focchi Supervisors are required to manage these works to ensure controls remain effective. Any part of this process are to be notified to the Focchi Site Manager for review and re-issue of this Risk Assessment immediately they are carried out.

|                          |               |                      |  |
|--------------------------|---------------|----------------------|--|
| Assessment Conducted By: | Karl McCarthy | Controls Checked by: |  |
|--------------------------|---------------|----------------------|--|





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# METHOD STATEMENT & RISK ASSESSMENT

## Risk Assessment - Setup & Use of Exclusion Zones

|                |                         |       |            |
|----------------|-------------------------|-------|------------|
| Location/Site: | Port Street, Manchester | Date: | 27.02.2024 |
|----------------|-------------------------|-------|------------|

| HAZARD |                                                            | INITIAL ASSESSMENT       |   |   |   |   |   |                 |   |   |   |   | PO                          |                          |   |   |   |   |     |
|--------|------------------------------------------------------------|--------------------------|---|---|---|---|---|-----------------|---|---|---|---|-----------------------------|--------------------------|---|---|---|---|-----|
|        |                                                            | PROBABILITY OF OCCURANCE |   |   |   |   |   | HAZARD SEVERITY |   |   |   |   | CUMULATIVE SCORE<br>HS x PO | PROBABILITY OF OCCURANCE |   |   |   |   | HAZ |
|        |                                                            | 5                        | 4 | 3 | 2 | 1 | 6 | 5               | 4 | 3 | 2 | 1 |                             | 5                        | 4 | 3 | 2 | 1 | 6   |
| 1      | Incorrect setup or defective unstable equipment (barriers) |                          | ✓ |   |   |   |   |                 |   | ✓ |   |   | 12                          |                          |   |   | ✓ |   |     |
| 2      | Operatives in the area (below)                             |                          | ✓ |   |   |   |   | ✓               |   |   |   |   | 20                          |                          |   |   |   | ✓ |     |
| 3      | Collapse (could result in injury of operatives)            |                          | ✓ |   |   |   |   |                 |   | ✓ |   |   | 12                          |                          |   |   |   | ✓ |     |
| 4      | Manual Handling whilst removing/transporting               |                          | ✓ |   |   |   |   |                 | ✓ |   |   |   | 16                          |                          |   |   | ✓ |   |     |
| 5      | Trip & Fall                                                |                          | ✓ |   |   |   |   |                 | ✓ |   |   |   | 16                          |                          |   |   | ✓ |   |     |
| 6      | Ground Condition if surface not suitable or rough surface. |                          |   | ✓ |   |   |   |                 |   | ✓ |   |   | 9                           |                          |   |   |   | ✓ |     |
| 7      | Access & Egress – Fire Exits                               |                          | ✓ |   |   |   | ✓ |                 |   |   |   |   | 24                          |                          |   |   |   | ✓ | ✓   |

HAZARD RATING - Hazard is potential to cause harm & Risk is probability of harm occurring.

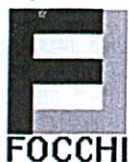
PROBABILITY OF OCCURANCE: 5 = inevitable 4 = very likely 3 = likely 2 = unlikely 1 = very unlikely

HAZARD SEVERITY: 6 = Multiple 5 = fatal 4 = major 3 = minor. 2 = slight 1 = no injury

### CUMULATIVE SCORE EXPLANATIONS

**INTOLERABLE** - Work prohibited - An activity that is likely to lead to major or fatal injury / serious health problems (20-30)

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## METHOD STATEMENT & RISK ASSESSMENT

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <b>SUBSTANTIAL</b> - Halt work until risk has been reduced - An activity that could lead to time of work through serious injury/significant material damage (15-20)<br><b>MODERATE</b> - Make efforts to reduce the risk - an activity resulting in an injury/ some material damage (10-15)<br><b>TOLERABLE</b> - Control and monitor - An activity resulting in the risk of a minor injury (5-10)<br><b>ACCEPTABLE</b> - No action required – No risk of injury (0-5) | Gen  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Tote |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Peo  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Haz  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Frec |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Exp  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Dura |

| Typical Equipment Used: | Can Task Be Eliminated |
|-------------------------|------------------------|
| Portable grab barriers  |                        |
| Typical Materials Used: | COSHH Assessments R    |
|                         |                        |





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## METHOD STATEMENT & RISK ASSESSMENT

| PPE Requirements                                                                    |                                                      |  |   |                                                                                     |                                                  |  |               |     |                                                                                       |            |
|-------------------------------------------------------------------------------------|------------------------------------------------------|--|---|-------------------------------------------------------------------------------------|--------------------------------------------------|--|---------------|-----|---------------------------------------------------------------------------------------|------------|
|    | Safety Helmet EN 397                                 |  | ✓ |    | Eye Protection (spectacles)<br>EN166 1F          |  |               | ✓   |    | Hi-<br>EN  |
|                                                                                     | Colour/s                                             |  |   |                                                                                     |                                                  |  |               |     |                                                                                       |            |
|    | Safety Boots – Toecap & Midsole Protection<br>EN 345 |  | ✓ |    | High Impact Eye Protection (goggles)<br>EN166 1B |  |               |     |    | Hi-<br>EN  |
|    | Hearing Protection - Ear Plugs<br>EN 352-2           |  |   |    | Face Shield<br>EN 166 1B                         |  |               |     |    | Hi-<br>EN  |
|    | Hearing Protection - Ear Muffs<br>EN 352-1           |  |   |    | Welding Mask<br>EN175/EN379                      |  |               |     |    | Hi-<br>EN  |
|    | Protective Gloves (General)<br>EN 388                |  | ✓ |    | Dust Mask FFP1                                   |  |               |     |    | Tas<br>Spi |
|    | Protective Gloves (Chemical Resistant)<br>EN 374-2/3 |  |   |    | Face Mask FFP2                                   |  |               |     |                                                                                       | Lea<br>EN  |
|   | Guantlets (Chemical Resistant)<br>EN 374-2/3         |  |   |   | Face Mask FFP3                                   |  |               |     |                                                                                       | Ro<br>EN   |
|  | Welding Guantlets (Heat Resistant)<br>EN 511         |  |   |  | Close Fit Filtered Face Mask EN 140              |  |               |     |  | Fix<br>EN  |
|                                                                                     |                                                      |  |   | State Filter/s                                                                      | TBC                                              |  | Face Fit Test | Yes | No                                                                                    |            |
|  | Pierce Resistant Gloves<br>EN 407                    |  |   |  | Full Face Filtered Mask EN 136                   |  |               |     |  | En<br>(La  |
|                                                                                     |                                                      |  |   | State Filter/s                                                                      |                                                  |  | Face Fit Test | Yes | No                                                                                    |            |
|                                                                                     |                                                      |  |   |  | Self-Contained Breathing Apparatus EN 137 & 138  |  |               |     |  | Sal<br>EN  |



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## METHOD STATEMENT & RISK ASSESSMENT

### CONTROL MEASURES

#### Actions Required to Reduce or Eliminate Risk

1. Installation of the exclusion zone(s) barriers to be established by detailed marked up agreed locations in accordance with Associated respectively.
2. These will be policed, monitored, and maintained by Focchi Supervisor or appointed competent person.
3. Operators installing material/units above to ensure that the exclusion zones are properly erected with adequate signage of works.
4. Installation of exclusion zones to be completed in agreed sequence and direction with all other trades, working adjacent.
5. Operational work areas must be kept clear, as materials necessary to erect these exclusion zone(s) are walked through.
6. Access & Egress or Fire Exits to remain clear or diverted if coordinated on site with logistic and project team.
7. Maintenance & Monitoring regime to be established and recorded daily and as necessary.
8. Zone of operation to be isolated and cordoned off.
9. Operatives to always wear mandatory PPE whilst on site.
10. Defective barriers (unstable or broken) should not be used or form part of any exclusion zones.
11. Routine Inspections will be carried out by Focchi Supervisors to ensure that the barriers are suitable and in good condition. They will be removed from site to prevent further usage.

#### Additional / Extraordinary Measures Required:

#### Action By:

None generally but individual sites to review for specific situations

-

#### Monitoring Results

Due to the nature of the residual risks, Focchi Supervisors are required to manage these works to ensure controls remain effective. Any changes identified as part of this process are to be notified to the Focchi Site Manager for review and re-issue of this Risk Assessment should be stopped whilst this review is carried out.

#### Assessment Conducted By:

Karl McCarthy

#### Controls Checked by:





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# METHOD STATEMENT & RISK ASSESSMENT

## Risk Assessment - Use of Electrically Operated Power Tools

| Location/Site: |                                                                                                                               | Port Street, Manchester   |   |   |   |   |                 |   |   |   |   | Date:                       | 27.02.2024                |   |   |   |   |
|----------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------|---|---|---|---|-----------------|---|---|---|---|-----------------------------|---------------------------|---|---|---|---|
| HAZARD         |                                                                                                                               | INITIAL ASSESSMENT        |   |   |   |   |                 |   |   |   |   |                             |                           |   |   |   |   |
|                |                                                                                                                               | PROBABILITY OF OCCURRENCE |   |   |   |   | HAZARD SEVERITY |   |   |   |   | CUMULATIVE SCORE<br>HS x PO | PROBABILITY OF OCCURRENCE |   |   |   |   |
|                |                                                                                                                               | 5                         | 4 | 3 | 2 | 1 | 6               | 5 | 4 | 3 | 2 |                             | 1                         | 5 | 4 | 3 | 2 |
| 1              | Incorrect or improper use                                                                                                     | ✓                         |   |   |   |   |                 | ✓ |   |   |   |                             | 25                        |   |   |   | ✓ |
| 2              | Electric shock because of use of poorly maintained tools.                                                                     | ✓                         |   |   |   |   |                 | ✓ |   |   |   |                             | 25                        |   |   |   | ✓ |
| 3              | Electric shock because of poorly maintained leads and fittings                                                                | ✓                         |   |   |   |   |                 | ✓ |   |   |   |                             | 25                        |   |   |   |   |
| 4              | Trip hazard because of trailing cables                                                                                        |                           | ✓ |   |   |   |                 |   | ✓ |   |   |                             | 16                        |   |   |   | ✓ |
| 5              | Hand Arm Vibration (HAV) – Due to prolonged use of tools<br>Vibration White finger (VWF)<br>Work Related Upper Limb Disorders |                           |   |   |   | ✓ |                 |   |   |   | ✓ |                             | 6                         |   |   |   |   |
| 6              | Eye injuries due to dust particles when drilling into concrete                                                                |                           | ✓ |   |   |   |                 |   | ✓ |   |   |                             | 16                        |   |   |   |   |
| 7              | Respiratory problems due to inhalation of silica dust particles when drilling                                                 |                           |   | ✓ |   |   |                 |   | ✓ |   |   |                             | 12                        |   |   |   |   |
| 8              | Operators of the equipment Electric shock, burns, minor injuries because of falls                                             |                           | ✓ |   |   |   |                 |   | ✓ |   |   |                             | 16                        |   |   |   |   |
| 9              | Other operatives & visitors Electric shock, burns, minor injuries                                                             |                           | ✓ |   |   |   |                 |   | ✓ |   |   |                             | 16                        |   |   |   |   |
| 10             | Parts and Materials (swarf etc.) being ejected from machine when in use                                                       |                           | ✓ |   |   |   |                 |   | ✓ |   |   |                             | 16                        |   |   |   | ✓ |
| 11             | Sparks flying from machine when in use                                                                                        | ✓                         |   |   |   |   |                 |   | ✓ |   |   |                             | 20                        |   | ✓ |   |   |



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## METHOD STATEMENT & RISK ASSESSMENT

**HAZARD RATING** - Hazard is potential to cause harm & Risk is probability of harm occurring.

**PROBABILITY OF OCCURANCE:** 5 = inevitable 4 = very likely 3 = likely 2 = unlikely 1 = very unlikely

**HAZARD SEVERITY:** 6 = Multiple 5 = fatal 4 = major 3 = minor. 2 = slight 1 = no injury

### CUMULATIVE SCORE EXPLANATIONS

**INTOLERABLE** - Work prohibited - An activity that is likely to lead to major or fatal injury / serious health problems (20-30)

**SUBSTANTIAL** - Halt work until risk has been reduced - An activity that could lead to time of work through serious injury/significant material damage (15-20)

**MODERATE** - Make efforts to reduce the risk - an activity resulting in an injury/ some material damage (10-15)

**TOLERABLE** - Control and monitor - An activity resulting in the risk of a minor injury (5-10)

**ACCEPTABLE** - No action required - No risk of injury (0-5)

|                                    |                                |
|------------------------------------|--------------------------------|
| <b>Typical Equipment Used:</b>     | <b>Can Task Be Eliminated?</b> |
| Drills, Angle Grinders, Bench Saws |                                |
| <b>Typical Materials Used:</b>     | <b>COSHH Assessment</b>        |
|                                    |                                |





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## METHOD STATEMENT & RISK ASSESSMENT

| PPE Requirements                                                                    |                                                   |   |                                                                                     |                                                 |               |                                                                                     |                                                   |   |                                                                                     |
|-------------------------------------------------------------------------------------|---------------------------------------------------|---|-------------------------------------------------------------------------------------|-------------------------------------------------|---------------|-------------------------------------------------------------------------------------|---------------------------------------------------|---|-------------------------------------------------------------------------------------|
|    | Safety Helmet EN 397                              | ✓ |    | Eye Protection (spectacles) EN166 1F            | ✓             |    | Safety Boots – Toecap & Midsole Protection EN 345 | ✓ |    |
|                                                                                     | Colour/s                                          |   |                                                                                     |                                                 |               |                                                                                     |                                                   |   |                                                                                     |
|    | Safety Boots – Toecap & Midsole Protection EN 345 | ✓ |    | High Impact Eye Protection (goggles) EN166 1B   | ✓             |    | Hearing Protection - Ear Plugs EN 352-2           |   |    |
|    | Hearing Protection - Ear Plugs EN 352-2           |   |    | Face Shield EN 166 1B                           |               |    | Hearing Protection - Ear Muffs EN 352-1           |   |    |
|    | Hearing Protection - Ear Muffs EN 352-1           |   |    | Welding Mask EN175/EN379                        |               |   | Protective Gloves (General) EN 388                | ✓ |   |
|  | Protective Gloves (General) EN 388                | ✓ |  | Dust Mask FFP1                                  |               |  | Protective Gloves (Chemical Resistant) EN 374-2/3 |   |  |
|  | Protective Gloves (Chemical Resistant) EN 374-2/3 |   |  | Face Mask FFP2                                  |               |  | Guantlets (Chemical Resistant) EN 374-2/3         |   |  |
|  | Guantlets (Chemical Resistant) EN 374-2/3         |   |  | Face Mask FFP3                                  |               |  | Welding Guantlets (Heat Resistant) EN 511         |   |  |
|  | Welding Guantlets (Heat Resistant) EN 511         |   |  | Close Fit Filtered Face Mask EN 140             |               |  | Pierce Resistant Gloves EN 407                    |   |  |
|                                                                                     |                                                   |   |                                                                                     | State Filter/s                                  | Face Fit Test | Yes                                                                                 | No                                                |   |                                                                                     |
|  | Pierce Resistant Gloves EN 407                    |   |  | Full Face Filtered Mask EN 136                  |               |  | Self-Contained Breathing Apparatus EN 137 & 138   |   |  |
|                                                                                     |                                                   |   |                                                                                     | State Filter/s                                  | Face Fit Test | Yes                                                                                 | No                                                |   |                                                                                     |
|                                                                                     |                                                   |   |  | Self-Contained Breathing Apparatus EN 137 & 138 |               |                                                                                     |                                                   |   |                                                                                     |



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## METHOD STATEMENT & RISK ASSESSMENT

### CONTROL MEASURES

#### Actions Required to Reduce or Eliminate Risk

- Suitable PPE to be worn when drilling including dust mask, ear protection, eye protection.
- Exposure times to possible VWF and WURLDs to be reduced by rotating operation of tools.
- Make sure that employee using power tool have had adequate training and have received all necessary information in conjunction with the use of the tool.
- All equipment is tested, inspected at regular intervals and a register is kept of all appliances and test dates. (See PAT Test register)
- Prior to use, electrical equipment including leads is checked for visible damage and removed if found to be defective.
- Maximum exposure limits information to be supplied to site and be subject to toolbox talks. This gives the HSE A (08) EAV & EL
- Only 110v power tools are used on site and colour coding is in place.
- Use battery powered equipment wherever possible.
- Cables are suspended where possible and protected from trapping.
- Electrical equipment complies with relevant standards.
- Check prior to commencement of work that all safety devices are in place and that equipment is in good order.
- Check that equipment has been properly maintained, serviced and from a reputable source,
- Equipment that is damaged is repaired before use and tested.
- Electrical equipment is not lifted by its cable, and operatives are instructed not to do so.
- Check that area that power tool to be used is safe and that people cannot accidentally meet it.
- Dust suppression to be used where appropriate.
- Operatives to wear FP3 respiratory masks, with Face Fit certification in place, when drilling into masonry.
- Does tool cause sparking or fumes that operator or third party can encounter. If so, then control measures must be brought into place.
- Only trained and competent persons may use and check electrical appliances.
- Supplies to electrical appliances are checked and RCD protection is used.

**NOTE:** Where 415v is utilized for specific activities and equipment (e.g., welding) specific risk assessment applies

#### Additional / Extraordinary Measures Required:

#### Action By:

None generally but review for specific situations on individual sites.

-

#### Monitoring Results

Due to the nature of the residual risks, Focchi Supervisors are required to manage these works to ensure controls remain effective. Any changes identified as part of this process are to be notified to the Focchi Site Manager for review and re-issue of this Risk Assessment should be stopped whilst this review is carried out.

#### Assessment Conducted By:

Karl McCarthy

#### Controls Checked by:





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## METHOD STATEMENT & RISK ASSESSMENT

### Risk Assessment - Use of Harnesses/Fall Restraint/HSL

|                |                                                                 |                           |   |   |   |   |                 |   |   |   |   |       |                           |            |  |  |                             |
|----------------|-----------------------------------------------------------------|---------------------------|---|---|---|---|-----------------|---|---|---|---|-------|---------------------------|------------|--|--|-----------------------------|
| Location/Site: |                                                                 | Port Street, Manchester   |   |   |   |   |                 |   |   |   |   | Date: |                           | 27.02.2024 |  |  |                             |
| HAZARD         |                                                                 | INITIAL ASSESSMENT        |   |   |   |   |                 |   |   |   |   |       | PROBABILITY OF OCCURRENCE |            |  |  |                             |
|                |                                                                 | PROBABILITY OF OCCURRENCE |   |   |   |   | HAZARD SEVERITY |   |   |   |   |       |                           |            |  |  | CUMULATIVE SCORE<br>HS x PO |
|                |                                                                 | 5                         | 4 | 3 | 2 | 1 | 6               | 5 | 4 | 3 | 2 | 1     |                           |            |  |  |                             |
| 1              | Person falling from height                                      |                           |   | ✓ |   |   |                 | ✓ |   |   |   |       | 15                        |            |  |  | ✓                           |
| 2              | Damage to surrounding structures                                |                           | ✓ |   |   |   |                 |   | ✓ |   |   |       | 16                        |            |  |  | ✓                           |
| 3              | To others working within the vicinity<br>Injury (minor / fatal) |                           |   | ✓ |   |   |                 |   | ✓ |   |   |       | 12                        |            |  |  | ✓                           |
| 4              | To members of the public                                        |                           | ✓ |   |   |   |                 |   | ✓ |   |   |       | 16                        |            |  |  | ✓                           |
| 5              | To other operatives in area                                     |                           | ✓ |   |   |   |                 |   | ✓ |   |   |       | 12                        |            |  |  |                             |
|                |                                                                 |                           |   |   |   |   |                 |   |   |   |   |       |                           |            |  |  |                             |

**HAZARD RATING** - Hazard is potential to cause harm & Risk is probability of harm occurring.

**PROBABILITY OF OCCURRENCE:** 5 = inevitable 4 = very likely 3 = likely 2 = unlikely 1 = very unlikely

**HAZARD SEVERITY:** 6 = Multiple 5 = fatal 4 = major 3 = minor. 2 = slight 1 = no injury

#### CUMULATIVE SCORE EXPLANATIONS

**INTOLERABLE** - Work prohibited - An activity that is likely to lead to major or fatal injury / serious health problems (20-30)

**SUBSTANTIAL** - Halt work until risk has been reduced - An activity that could lead to time of work through serious injury/significant material damage (15-20)



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## METHOD STATEMENT & RISK ASSESSMENT

**MODERATE** - Make efforts to reduce the risk - an activity resulting in an injury/ some material damage (10-15)

**TOLERABLE** - Control and monitor - An activity resulting in the risk of a minor injury (5-10)

**ACCEPTABLE** - No action required – No risk of injury (0-5)

| Typical Equipment Used: | Can Task Be Elimi |
|-------------------------|-------------------|
| Personnel harness       |                   |
| Typical Materials Used: | COSHH Assessr     |
|                         |                   |





| PPE Requirements                                                                    |                                                      |  |                |                                                                                     |                                                  |               |     |    |  |
|-------------------------------------------------------------------------------------|------------------------------------------------------|--|----------------|-------------------------------------------------------------------------------------|--------------------------------------------------|---------------|-----|----|--|
|    | Safety Helmet EN 397                                 |  | ✓              |    | Eye Protection (spectacles)<br>EN166 1F          |               |     | ✓  |  |
|                                                                                     | Colour/s                                             |  |                |                                                                                     |                                                  |               |     |    |  |
|    | Safety Boots – Toecap & Midsole Protection<br>EN 345 |  | ✓              |    | High Impact Eye Protection (goggles)<br>EN166 1B |               |     |    |  |
|    | Hearing Protection - Ear Plugs<br>EN 352-2           |  |                |    | Face Shield<br>EN 166 1B                         |               |     |    |  |
|    | Hearing Protection - Ear Muffs<br>EN 352-1           |  |                |    | Welding Mask<br>EN175/EN379                      |               |     |    |  |
|    | Protective Gloves (General)<br>EN 388                |  | ✓              |    | Dust Mask FFP1                                   |               |     |    |  |
|    | Protective Gloves (Chemical Resistant)<br>EN 374-2/3 |  |                |    | Face Mask FFP2                                   |               |     |    |  |
|    | Gloves (Chemical Resistant)<br>EN 374-2/3            |  |                |    | Face Mask FFP3                                   |               |     |    |  |
|  | Welding Gloves (Heat Resistant)<br>EN 511            |  |                |  | Close Fit Filtered Face Mask EN 140              |               |     |    |  |
|                                                                                     |                                                      |  | State Filter/s |                                                                                     |                                                  | Face Fit Test | Yes | No |  |
|  | Pierce Resistant Gloves<br>EN 407                    |  |                |  | Full Face Filtered Mask EN 136                   |               |     |    |  |
|                                                                                     |                                                      |  | State Filter/s |                                                                                     |                                                  | Face Fit Test | Yes | No |  |
|  | Task Specific Protective clothing                    |  |                |  | Self-Contained Breathing Apparatus EN 137 & 138  |               |     |    |  |
|                                                                                     | Specify                                              |  |                |                                                                                     |                                                  |               |     |    |  |



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## METHOD STATEMENT & RISK ASSESSMENT

### CONTROL MEASURES

#### Actions Required to Reduce or Eliminate Risk

- Harnesses to be provided if the operative is required to work from a MEWP Boom Lift or Horizontal
- The harness and restraint system should be designed such that the operative cannot fall out of
- Harnesses should only be worn by trained operatives and used in strict accordance with the ma
- Harnesses will be allocated to an operative, who will sign for it, and should be sized to fit. The c  
upkeep and will be trained in the inspecting harness daily. Safety harnesses & equipment is to k  
restraint system specifically designed and provided for the purpose.
- Anchorage points will be used within the platform as specified by the manufacturers operating n  
exceeded.
- Only restraint lanyards/work positioners are to be used with the HSL systems.
- Area will be checked by authorized personnel only before anyone enters the work areas.
- Operating area to be cordoned off, only authorized Focchi operatives in the works area.
- Working safe is carried out and method statement adhered to.
- Records are kept of training, certification, maintenance, and inspections by competent persons.
- All harness & lanyards will be given a weekly inspection at the weekly toolbox talks.
- This assessment does not cover abseiling, which will be subject to a specific risk assessment b

#### Additional / Extraordinary Measures Required:

#### Action By:

#### Monitoring Results

Due to the nature of the residual risks, Focchi Supervisors are required to manage these works to ensi  
shortfall or changes required, which are identified as part of this process are to be notified to the Focch  
this Risk Assessment immediately they are discovered. Work should be stopped whilst this review is c

#### Assessment Conducted By:

Karl McCarthy

#### Controls Checked by:







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## METHOD STATEMENT & RISK ASSESSMENT

**HAZARD RATING** - Hazard is potential to cause harm & Risk is probability of harm occurring.

**PROBABILITY OF OCCURANCE** 5 - Inevitable 4 - Very likely 3 - Likely 2 - Unlikely 1 - Very unlikely  
**HAZARD SEVERITY** 6 - Multiple 5 - Fatal 4 - Major 3 - Minor 2 - Slight 1 - Negligible

### CUMULATIVE SCORE EXPLANATIONS

**INTOLERABLE** - Work prohibited - An activity that is likely to lead to major or fatal injury / serious health problems (20-30)

**SUBSTANTIAL** - Halt work until risk has been reduced - An activity that could lead to time of work through serious injury/significant material damage (15-20)

**MODERATE** - Make efforts to reduce the risk - an activity resulting in an injury/ some material damage (10-15)

**TOLERABLE** - Control and monitor - An activity resulting in the risk of a minor injury (5-10)

**ACCEPTABLE** - No action required - No risk of injury (0-5)

|                                       |                    |
|---------------------------------------|--------------------|
| <b>Typical Equipment Used:</b>        | <b>Can Task Be</b> |
| Mobile Cranes, Mini-Cranes, Glass Boy |                    |
| <b>Typical Materials Used:</b>        | <b>COSHH Ass</b>   |
|                                       |                    |





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## METHOD STATEMENT & RISK ASSESSMENT

| PPE Requirements                                                                   |                                                      |   |                                                                                    |                                                  |  |                  |     |  |  |
|------------------------------------------------------------------------------------|------------------------------------------------------|---|------------------------------------------------------------------------------------|--------------------------------------------------|--|------------------|-----|--|--|
|   | Safety Helmet EN 397                                 | ✓ |   | Eye Protection (spectacles)<br>EN166 1F          |  |                  |     |  |  |
|                                                                                    | Colour/s <b>White/Black/Orange</b>                   |   |                                                                                    |                                                  |  |                  |     |  |  |
|   | Safety Boots – Toecap & Midsole Protection<br>EN 345 | ✓ |   | High Impact Eye Protection (goggles)<br>EN166 1B |  |                  |     |  |  |
|   | Hearing Protection - Ear Plugs<br>EN 352-2           |   |   | Face Shield<br>EN 166 1B                         |  |                  |     |  |  |
|   | Hearing Protection - Ear Muffs<br>EN 352-1           |   |   | Welding Mask<br>EN175/EN379                      |  |                  |     |  |  |
|   | Protective Gloves (General)<br>EN 388                | ✓ |   | Dust Mask FFP1                                   |  |                  |     |  |  |
|   | Protective Gloves (Chemical Resistant)<br>EN 374-2/3 |   |   | Face Mask FFP2                                   |  |                  |     |  |  |
|   | Guantlets (Chemical Resistant)<br>EN 374-2/3         |   |   | Face Mask FFP3                                   |  |                  |     |  |  |
|   | Welding Guantlets (Heat Resistant)<br>EN 511         |   |   | Close Fit Filtered Face Mask EN 140              |  |                  |     |  |  |
|                                                                                    |                                                      |   |                                                                                    | State<br>Filter/s                                |  | Face Fit<br>Test | Yes |  |  |
|  | Pierce Resistant Gloves<br>EN 407                    |   |  | Full Face Filtered Mask EN 136                   |  |                  |     |  |  |
|                                                                                    |                                                      |   |                                                                                    | State<br>Filter/s                                |  | Face Fit<br>Test | Yes |  |  |





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## METHOD STATEMENT & RISK ASSESSMENT

### CONTROL MEASURES

#### Actions Required to Reduce or Eliminate Risk

The use of the term crane or mobile crane below is considered to mean any lifting device considered other than Tower Cranes or Manipulators undertaken i.e., able to lift the load, and capable of getting on and off the site and to operate within it.

1. All Lifting operations to be carried out in accordance with **LP003 rev00**.
2. All crane test certificates are up to date (refer to check sheet mobile crane)
3. Crane to be regularly maintained. An automatic safe load indicator is fitted to the crane and is in good working order.
4. Ground to be inspected and ground bearing pressures agreed.
5. The crane is sited in a safe place, i.e., driver has a good clear view, well away from excavations and overhead power lines, underside on a level stable ground.
6. Driver is fully trained and certified to CPCS/nocr HSE approved standard - all certification has been forwarded to Principal Contractor.
7. Sufficient banksmen & Lift supervisor are always provided and are to be fully competent.
8. Only the banksman will control any lifting and co-ordinate with the crane operator.
9. Only a competent person will attach lifting straps to load and check before lifting.
10. Load to be always controlled and adequate clearance is established so that people are not struck or trapped by the load etc. When
11. Installation of materials to be carried out in agreed sequence and direction.
12. All lifting equipment certification to be forwarded to Principal Contractor. All lifting equipment will be checked before each shift and
13. The work will be monitored daily, and any further risks will be identified and re-assessed.
14. The crane and lifting tackle are checked and maintained as recommended by the manufacturer, thorough examination no more than
15. Daily & Weekly inspections of the crane are undertaken and recorded (refer to check sheet mobile crane).
16. All personnel to wear proper & appropriate PPE.
17. The crane is left secured and safe at the end of the working period.
18. Loads are never left suspended while the crane is unattended.
19. In the event the crane breaks down with a suspended load, an engineer will be tasked immediately to attend site to rectify the issue, policed until such time that the operation can continue, or the load be landed.
20. All lifting tasks are properly planned by an appointed person, a lifting plan will be prepared and followed by all operatives.
21. The lifting zone will be fenced off to any other operatives apart from the FOCCHI installation team.
22. A detailed method statement/Lift Plan is to be produced by Focchi prior to works commencing.
23. Safe working load is clearly visible on the crane and adhered to.
24. Allowances are made for adverse weather conditions, e.g., High winds etc. Anemometer to always be available for wind speed check
25. All work areas will have exclusion zones in place and be monitored during operations.
26. The driver/crane operator is aware of the restricted operating space within the site.
27. The crane is not overloaded more than the manufacturers loading table.
28. Any permitted loads are stable on the machine.
29. Lifting operations are carried out smoothly.





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## METHOD STATEMENT & RISK ASSESSMENT

30. Cranes are maintained and serviced in accordance with manufacturer's instructions and examined at practiced intervals.  
31. If Focchi provide the crane they will ensure that the precautions above are carried out and in addition will ensure that:

- Personnel are clear of the crane during work operations and loads are not lifted over other personnel.
- Only fully trained and authorized personnel to maintain company plant.
- Refresher training to be conducted at maximum 5 yearly intervals.
- Thorough Examination Certificate must be current with machine.
- Risk assessment and method statement briefing conducted.
- Rating Chart available, understood and adhered to prior to work operations.

32. Crane operating warning signage clearly displayed.  
33. Drivers must be over 21 years old.  
34. Planned maintenance program applies to cranes and associated work equipment.  
35. Operating area proposed is to be checked in advance for suitability / selection.  
36. Vehicles must be checked by drivers before use and secured afterwards.  
37. All plant to be isolated and made safe/secure before any maintenance can commence.  
38. Cranes are not to be left unattended with engines running.

|                                                                                                                                                                                                                                                                                                                                                          |               |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------|
| <b>Additional / Extraordinary Measures Required:</b>                                                                                                                                                                                                                                                                                                     |               | <b>Action By:</b>           |
| None generally but individual sites to review for specific situations                                                                                                                                                                                                                                                                                    |               | -                           |
| <b>Monitoring Results</b>                                                                                                                                                                                                                                                                                                                                |               |                             |
| Due to the nature of the residual risks, Focchi Supervisors are required to manage these works to ensure controls remain effective which are identified as part of this process are to be notified to the AP (Appointed Person) for review and re-issue of this Risk Assessment if discovered. Work should be stopped whilst this review is carried out. |               |                             |
| <b>Assessment Conducted By:</b>                                                                                                                                                                                                                                                                                                                          | Karl McCarthy | <b>Controls Checked by:</b> |



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## METHOD STATEMENT & RISK ASSESSMENT

### Risk Assessment - Use of Lifting Gear and Equipment

|                |                         |       |            |
|----------------|-------------------------|-------|------------|
| Location/Site: | Port Street, Manchester | Date: | 27.02.2024 |
|----------------|-------------------------|-------|------------|

| HAZARD |                                                                                                 | INITIAL ASSESSMENT          |   |   |   |   |                 |   |   |   |   |   | CUMULATIVE<br>SCORE<br>HS x PO | PROBA<br>OCCU |   |
|--------|-------------------------------------------------------------------------------------------------|-----------------------------|---|---|---|---|-----------------|---|---|---|---|---|--------------------------------|---------------|---|
|        |                                                                                                 | PROBABILITY OF<br>OCCURANCE |   |   |   |   | HAZARD SEVERITY |   |   |   |   |   |                                | 5             | 4 |
|        |                                                                                                 | 5                           | 4 | 3 | 2 | 1 | 6               | 5 | 4 | 3 | 2 | 1 |                                |               |   |
| 1      | Materials falling from lifting gear due to incorrect use, or through use of defective equipment |                             | ✓ |   |   |   | ✓               |   |   |   |   |   | 24                             |               |   |
| 2      | General Public Injury (minor to fatal)                                                          |                             | ✓ |   |   |   | ✓               |   |   |   |   |   | 24                             |               |   |
| 3      | Operatives carrying out operation Injury (minor to fatal)                                       |                             | ✓ |   |   |   | ✓               |   |   |   |   |   | 24                             |               |   |
| 4      | Other operatives in area Injury (minor to fatal)                                                |                             | ✓ |   |   |   | ✓               |   |   |   |   |   | 24                             |               |   |
| 5      | Damage to surrounding structures                                                                |                             | ✓ |   |   |   |                 |   | ✓ |   |   |   | 16                             |               |   |

**HAZARD RATING** - Hazard is potential to cause harm & Risk is probability of harm occurring.

**HAZARD RATING** - Hazard is potential to cause harm & Risk is probability of harm occurring.

**PROBABILITY OF OCCURANCE** 5 - Inevitable 4 - Very likely 3 - Likely 2 - Unlikely 1 - Very unlikely

**HAZARD SEVERITY** 6 - Multiple 5 - Fatal 4 - Major 3 - Minor 2 - Slight 1 - Negligible

#### CUMULATIVE SCORE EXPLANATIONS

**INTOLERABLE** - Work prohibited - An activity that is likely to lead to major or fatal injury / serious health problems (20-30)

**SUBSTANTIAL** - Halt work until risk has been reduced - An activity that could lead to time of work through serious injury/ material damage (15-20)





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## METHOD STATEMENT & RISK ASSESSMENT

**MODERATE** - Make efforts to reduce the risk - an activity resulting in an injury/ some material damage (10-15)

**TOLERABLE** - Control and monitor - An activity resulting in the risk of a minor injury (5-10)

**ACCEPTABLE** - No action required – No risk of injury (0-5)

|                                                                                                |                      |
|------------------------------------------------------------------------------------------------|----------------------|
| <b>Typical Equipment Used:</b>                                                                 | <b>Can Task Be I</b> |
| Chain Slings, Webbing Slings, Round Slings, Bow Shackles, Master Link, Lifting Beam, Tag Lines |                      |
| <b>Typical Materials Used:</b>                                                                 | <b>COSHH Asses</b>   |
| Hydraulic oil, Battery checks                                                                  |                      |

| PPE Requirements |                                                      |   |  |                                                  |                   |  |               |     |   |
|------------------|------------------------------------------------------|---|--|--------------------------------------------------|-------------------|--|---------------|-----|---|
|                  | Safety Helmet EN 397                                 | ✓ |  | Eye Protection (spectacles)<br>EN166 1F          |                   |  |               |     |   |
|                  | Colour/s      White/Black/Orange                     |   |  |                                                  |                   |  |               |     |   |
|                  | Safety Boots – Toecap & Midsole Protection<br>EN 345 | ✓ |  | High Impact Eye Protection (goggles)<br>EN166 1B |                   |  |               |     |   |
|                  | Hearing Protection - Ear Plugs<br>EN 352-2           |   |  | Face Shield<br>EN 166 1B                         |                   |  |               |     |   |
|                  | Hearing Protection - Ear Muffs<br>EN 352-1           |   |  | Welding Mask<br>EN175/EN379                      |                   |  |               |     |   |
|                  | Protective Gloves (General)<br>EN 388                | ✓ |  | Dust Mask FFP1                                   |                   |  |               |     |   |
|                  | Protective Gloves (Chemical Resistant)<br>EN 374-2/3 |   |  | Face Mask FFP2                                   |                   |  |               |     |   |
|                  | Guantlets (Chemical Resistant)<br>EN 374-2/3         |   |  | Face Mask FFP3                                   |                   |  |               |     |   |
|                  | Welding Guantlets (Heat Resistant)<br>EN 511         |   |  | Close Fit Filtered Face Mask EN 140              |                   |  |               |     |   |
|                  | Pierce Resistant Gloves<br>EN 407                    | ✓ |  | Full Face Filtered Mask EN 136                   | State<br>Filter/s |  | Face Fit Test | Yes | N |
|                  |                                                      |   |  |                                                  | State<br>Filter/s |  | Face Fit Test | Yes | N |
|                  |                                                      |   |  | Self-Contained Breathing Apparatus EN 137 & 138  |                   |  |               |     |   |





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## METHOD STATEMENT & RISK ASSESSMENT

### CONTROL MEASURES

#### Actions Required to Reduce or Eliminate Risk

1. All lifting gear is maintained properly and checked prior to any lifting operation.
2. All Lifting operations to be carried out in accordance with **LP003 rev00**.
3. Statutory testing and thorough examinations carried out. (See register lifting gear)
4. Lifting gear is checked by a competent person prior to use
5. All operatives using lifting gear are appointed, competent persons.
6. Any defects are reported immediately, and the damaged equipment destroyed or secured & tagged ready for removal from site to be
7. Lifting gear is returned to the relevant storage area after use, put away correctly, any defects are reported, and the equipment isolated
8. The weight, contents and configuration of the load is known prior to the lift, to enable all lifting gear to be checked to identify that it is
9. Lifting gear is securely attached and is of suitable capacity for the load being lifted. The center of gravity shall be considered as well
10. Lifting gear is not knotted or bolted together.
11. All lifting gear should display the safe working load.
12. Correct PPE is worn by operatives.
13. No-one stands under or near the suspended load.
14. Lifting areas are cordoned off to prevent unauthorized access and warning signage posted.
15. Lifting gear is protected by packing on the edges of loads.
16. Loads are not dragged.
17. Hooks are fitted with a suitable device or designed to prevent displacement of the sling or load from the hook and fitted so the device
18. All loads are securely fixed and covered where loose items are being lifted.
19. All lifts are eased just clear of the ground to check the security of the lifting gear before the full lift is performed.

#### Additional / Extraordinary Measures Required:

#### Action By:

None generally but review for specific situations on individual sites.

-

#### Monitoring Results

Due to the nature of the residual risks, Focchi Supervisors are required to manage these works to ensure controls remain effective which are identified as part of this process are to be notified to the Focchi Site Manager for review and re-issue of this Risk Work should be stopped whilst this review is carried out.

#### Assessment Conducted By:

Karl McCarthy

#### Controls Checked by:





Sherlock House  
7 Kenrick Place  
London W1U 6HE  
Tel: 020 7224 2934  
Fax: 020 7487 5732  
E-mail: info@focchiltd.co.uk

## METHOD STATEMENT & RISK ASSESSMENT

### \* Additional notes

|   |                    |
|---|--------------------|
| 1 | Cost of Assessment |
|---|--------------------|

NB: Material data sheets held on file in site office.

|   |                                               |
|---|-----------------------------------------------|
| 2 | Cost of Training Records of Personnel on Site |
|---|-----------------------------------------------|

All operatives training certification will be held on file in Focchi site office and available on request.

|   |                           |
|---|---------------------------|
| 3 | List of Risk and Drawings |
|---|---------------------------|

All relevant drawings held on file in Focchi site office.

|   |              |
|---|--------------|
| 4 | Rolling Plan |
|---|--------------|





|            |            |                                                      |                |
|------------|------------|------------------------------------------------------|----------------|
| Reference  | PRO-QM-03  | <b>Non-conformance reporting<br/>(NCR) Procedure</b> | <b>RENAKER</b> |
| Originator | R Colville |                                                      |                |
| Revision   | 01         |                                                      |                |

## Purpose & scope

Firstly, it is important to realise that reporting a non-conformance is a positive action – it enables the true cause behind the issue to be identified, preventing it from happening again. This principle applies to our supply chain as much as it does to ourselves. Reporting all non-conformances accurately and fully is an essential part of ensuring we continually improve.

A non-conformance is where the product (or work) deviates away from the requirements. This can relate to any aspect of the requirements, including (but not limited to);

- The specified materials
- The measurements the work should be set out to
- The finish
- The agreed construction methodology
- The failure of the materials themselves

As an example, a concrete column could be slightly out of position (but not within tolerances); this would be a non-conformance against the requirements, i.e. the concrete column should have been in a certain place but was not. However, if it was slightly out of position but **within** acceptable and agreed tolerances, then this would **not** be an NCR.

There is also a distinction between a non-conformance and a snag;

- A **snag** is a minor defect which can be easily corrected without the need for redesign, significant cost and/or involvement of the RBL project teams.
- An **NCR** is a more serious issue where consideration will be needed to determine the course of action and if there will (or is very likely to) be a cost to RBL, either directly liable or rechargeable.

|            |            |                                                      |                |
|------------|------------|------------------------------------------------------|----------------|
| Reference  | PRO-QM-03  | <b>Non-conformance reporting<br/>(NCR) Procedure</b> | <b>RENAKER</b> |
| Originator | R Colville |                                                      |                |
| Revision   | 01         |                                                      |                |

## Procedure

There are five main parties involved in the NCR process;

- **Person raising the NCR** This is the NCR owner and is *usually* either an engineer or a construction manager (or any role more senior these). They have overall responsibility for ensuring the NCR is progressed and closed out.
- **Commercial Representative** (who may vary on a project depending on the stage and works involved). This person should be named in the “RBL distribution” field of the NCR and will usually be the commercial staff member looking after the work package involved.
- **Sub-contract representative** (where sub-contracted works are involved, usually their manager who is overseeing the works involved in the NCR). This is added in the form of an email address can be used to send the NCR electronically to the sub-contractor.
- **Project Manager** this is the project manager for the work activity and is automatically determined by the system. Any tasks can also be undertaken by the Senior Project Manager.
- **Quality Manager** this is the Quality Manager for the business

There are two key terms found within the flowcharts which *appear* similar but are distinct;

- **Immediate Action Taken / Correction** – this is the act of resolving the problem itself, e.g. the wrong decking was used on a balcony, then the correction would be to remove the decking and replace with the correct decking. There could be such action taken by both RBL and a sub-contractor, where this is the case, please make this clear in the typed text.
- **Corrective action** – this is the act of resolving the root cause of the problem, taking the same example, this would be identifying **why** the wrong decking was used, then the corrective action would be resolving this so that all future decking is installed correctly.

**Correctly identifying and treating the root cause of an NCR is paramount – if the error is only treated locally, it is likely to recur, either on the project or elsewhere in the business.**

### Important notes relating to the sub-contracted process:

Any approval of either proposed correction or corrective action to the Non-conformance Report by Renaker Build does not alleviate the Sub-Contractor of their responsibilities and obligations for their Works and their Sub-Contract requirements. Similarly, any status given does not constitute an instruction.

In accordance with the above, the following two statements should be considered;

- 1) The correction should be assessed to ensure it meets the necessary outcomes to adhere to our requirements
- 2) The corrective action should be assessed to give us assurance that the sub-contractor has considered the root cause of the problem and has identified a solution to prevent recurrence

The above should be read in conjunction with the flowcharts on the following pages.



|            |            |                                                      |                |
|------------|------------|------------------------------------------------------|----------------|
| Reference  | PRO-QM-03  | <b>Non-conformance reporting<br/>(NCR) Procedure</b> | <b>RENAKER</b> |
| Originator | R Colville |                                                      |                |
| Revision   | 01         |                                                      |                |

## NCR System

The [NCR System](#) has been built within The HIVE. There are confidentiality controls built into this, so users will have access to NCRs commensurate with their job role. Typically users can only see NCRs on their own project and will meet an “Access Denied” page if they try to access the “All NCRs” page.

Once an NCR has been verified, it is no longer available for editing. If there is an error which needs correcting, please contact the Quality Manager.

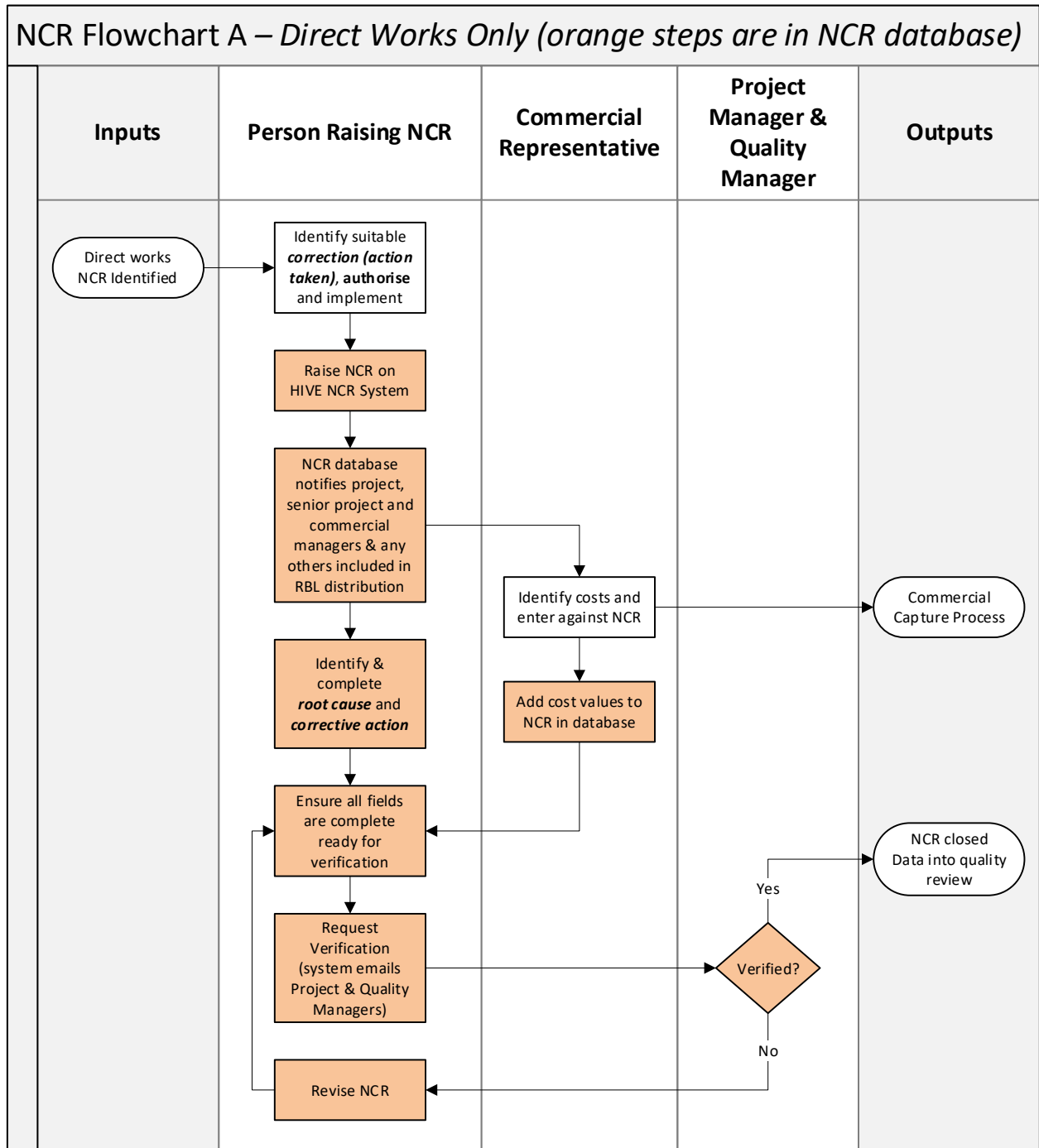
The System has been designed to automatically notify the relevant people, however there are some things which should be noted;

- When adding a [new NCR](#), a number of data fields are mandatory – these are marked with a red asterisk. You *can* complete other fields at this point too, but you must complete the mandatory fields before you will be able to submit the NCR.
- You should add the responsible RBL commercial representative to the “Add other RBL to notification” list so they are notified of the NCR. They can then add in their commercial cost elements to the NCR prior to requesting verification. It is important to record this information so we can analyse the cost trends of NCRs, both recoverable and non-recoverable costs.
- When requesting verification of the NCR (by clicking the ‘Req. Verify’ button), the root cause and corrective action fields, as well as the cost values in the commercial section, must be completed.
- When requesting a response from a sub-contractor, you can either click the “Email NCR to Sub” button (which can be found on the edit form) if there is a valid email address entered in the sub-contractor email field, or alternatively press the “Print for Sub-contractor” button (which can be found on the display form) which will produce a print form with the relevant level of information for the sub-contractor. You should **not** use the “Print Form” button located in the top bar for sub-contractors; this button is for internal use only as the printout will include cost information.

## Flowcharts

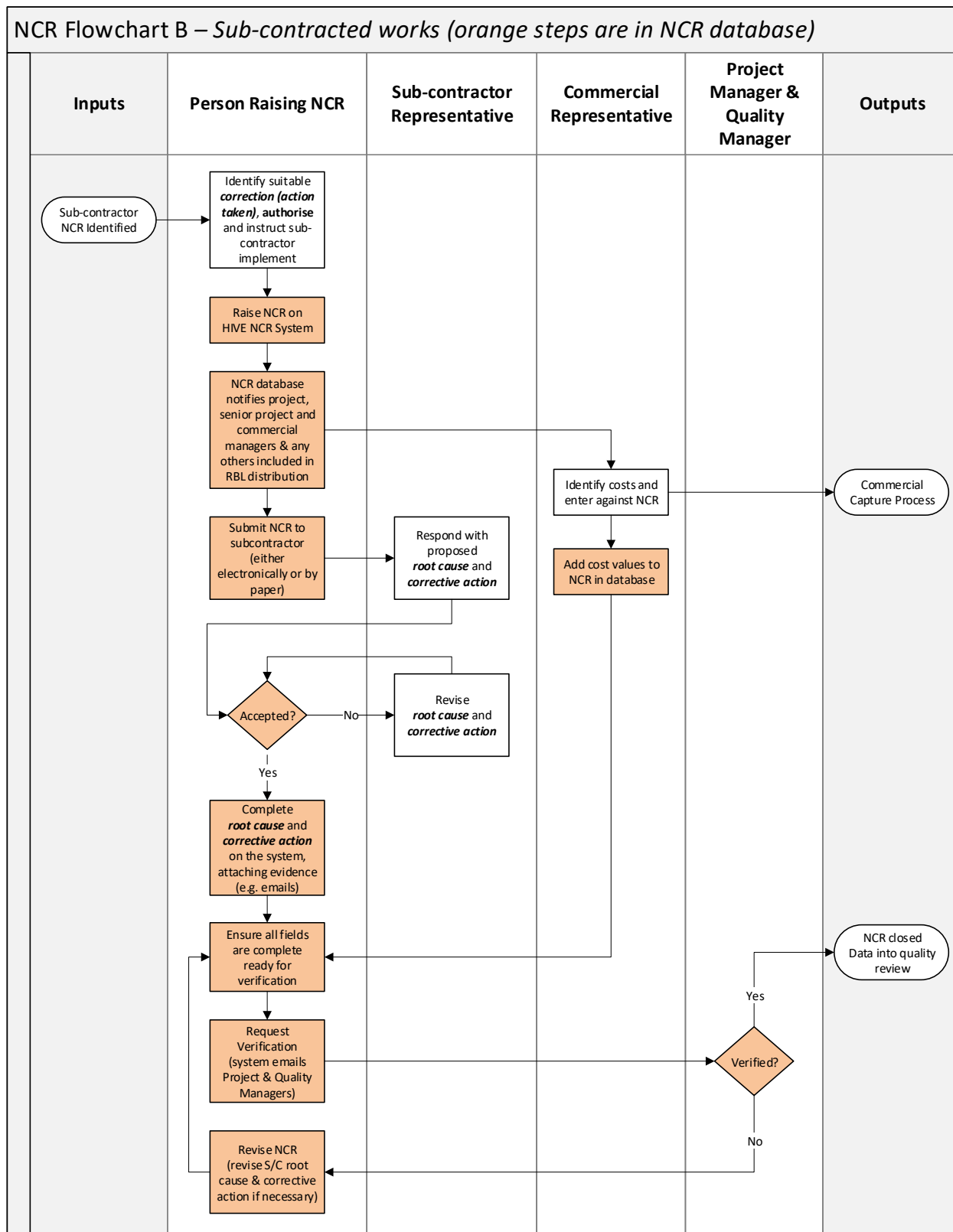
There are two flowcharts within this procedure; Flowchart A covers direct works only, whereas Flowchart B covers sub-contracted activities only. The flowchart should be selected on the basis of which activity the NCR is identified within. The flowcharts have orange shaded boxes where the stage directly involves the NCR database.

|            |            |                                              |         |
|------------|------------|----------------------------------------------|---------|
| Reference  | PRO-QM-03  | Non-conformance reporting<br>(NCR) Procedure | RENAKER |
| Originator | R Colville |                                              |         |
| Revision   | 01         |                                              |         |





|            |            |                                                      |                                                                                     |
|------------|------------|------------------------------------------------------|-------------------------------------------------------------------------------------|
| Reference  | PRO-QM-03  | <b>Non-conformance reporting<br/>(NCR) Procedure</b> |  |
| Originator | R Colville |                                                      |                                                                                     |
| Revision   | 01         |                                                      |                                                                                     |



|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |

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|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |

## 1. Introduction

Snagmaster is a software designed to allow us to create, track and close snags. It provides us with functions to complete QA Sheets (known as checklists on Snagmaster) and electronic forms (such as Clean Up Notices). The system has been designed for the construction industry and is easy to use both on site, via an app, and in the office, via the portal. Snagmaster is designed so that both clients and subcontractors can use it effectively. It is important to note that there are slight visual differences between the apple app and the android app.

### ***How to access the app and portal***

If your device already has Snagmaster downloaded, look for the app icon (right) on either your android or Apple device. If you wish to install the app on either an Android or Apple phone, you can download it for free from the Play Store/App Store.



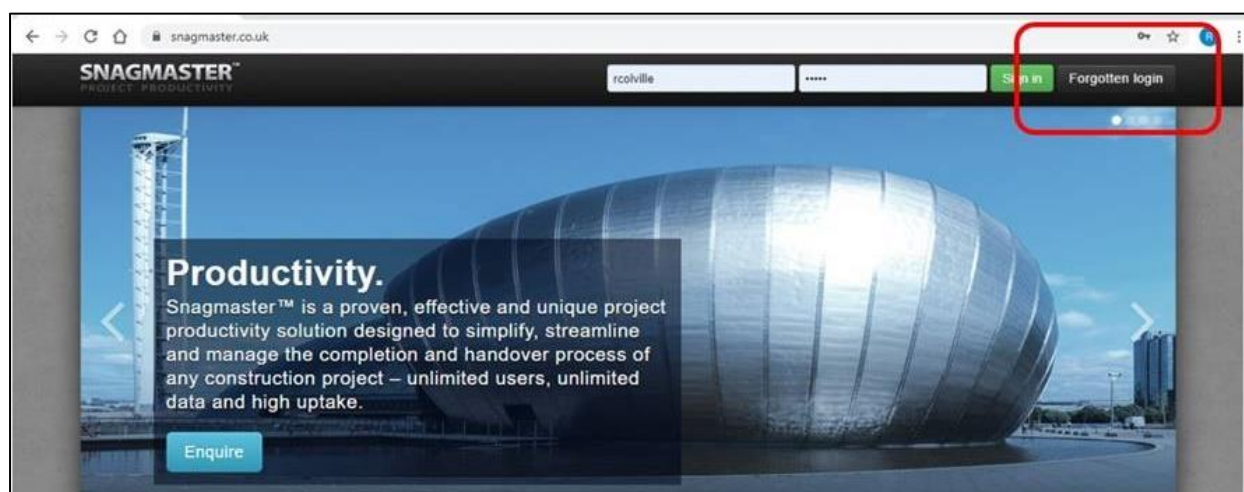
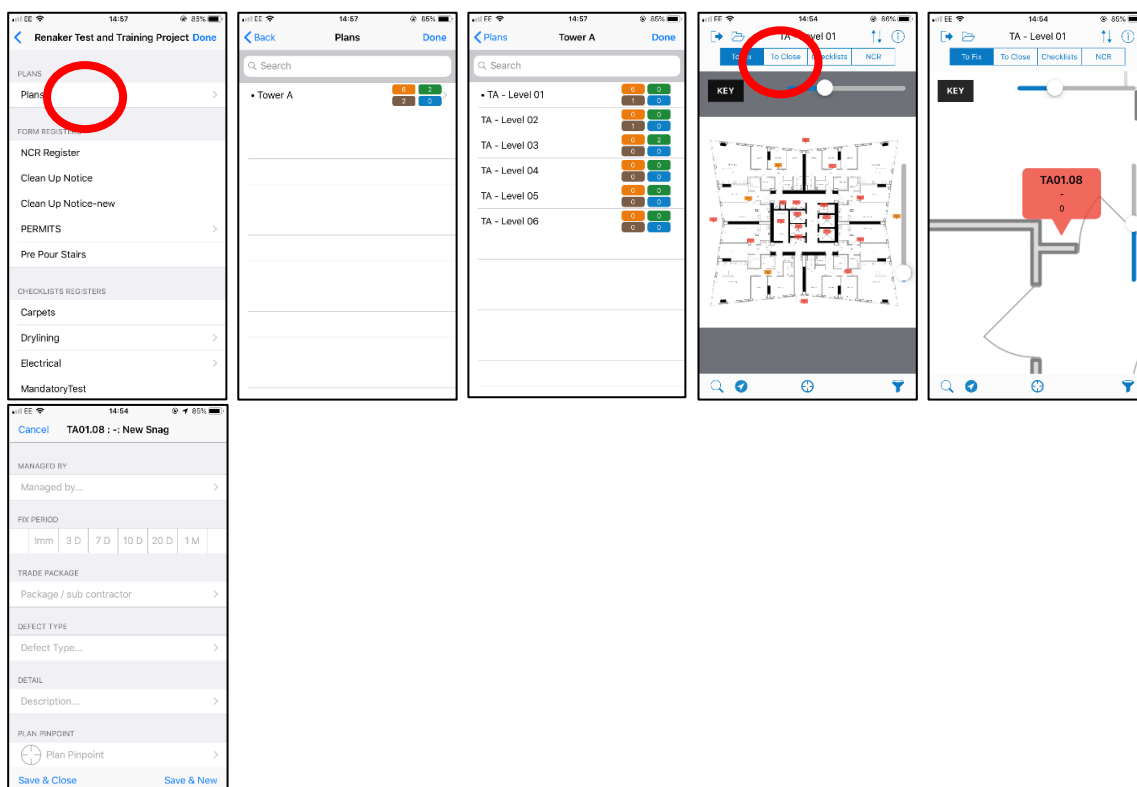
When opening Snagmaster, ensure you select **Plan mode (by clicking on Info then ticking “Set Display to Plan Mode”)**. Sign in using your username and password and “SYNC”; always use a Wi-Fi network as it’s quicker. Always SYNC before and after you go on site to ensure any new snags you identify are loaded into the system, plus any that have been marked ready for sign-off will show. To access the portal, go onto [www.snagmaster.co.uk](http://www.snagmaster.co.uk) and type in your log-in username and password and select the project you are assigned to.

### ***Subcontractor has forgotten password, or main subcontractor email has changed***

Due to GDPR, Snagmaster has removed the ability for the administrator of each project to access the passwords for any subcontractor or Renaker accounts. Instead, Snagmaster have introduced a “Forgotten login” button which takes you to a screen where you can reset your password (it sends you a link by email), however it does require you to have the correct email address for the account. For Renaker accounts this will not be a problem as accounts are per person and our email addresses do not change, but for subcontractors it is possible the account will be now operated by someone different to who it was originally set up for.

If a subcontractor asks for their password, ask them to try the “Forgotten login” in the first instance.

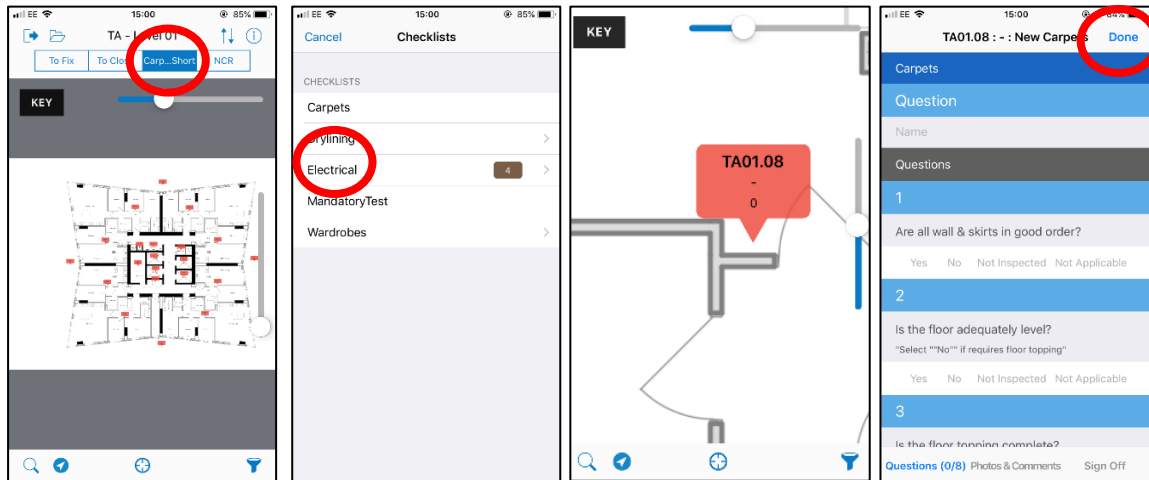
|            |            |                                                                                                                                                                                                                  |                                                                                                                                                                                                     |
|------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference  | GN-QM-01   | <div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> </div> <div> <div></div> <div></div> <div></div> </div> | <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div></div> <div></div> </div> |
| Originator | R Colville |                                                                                                                                                                                                                  |                                                                                                                                                                                                     |
| Revision   | 09         |                                                                                                                                                                                                                  |                                                                                                                                                                                                     |



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|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |

### 3. How to raise a checklist



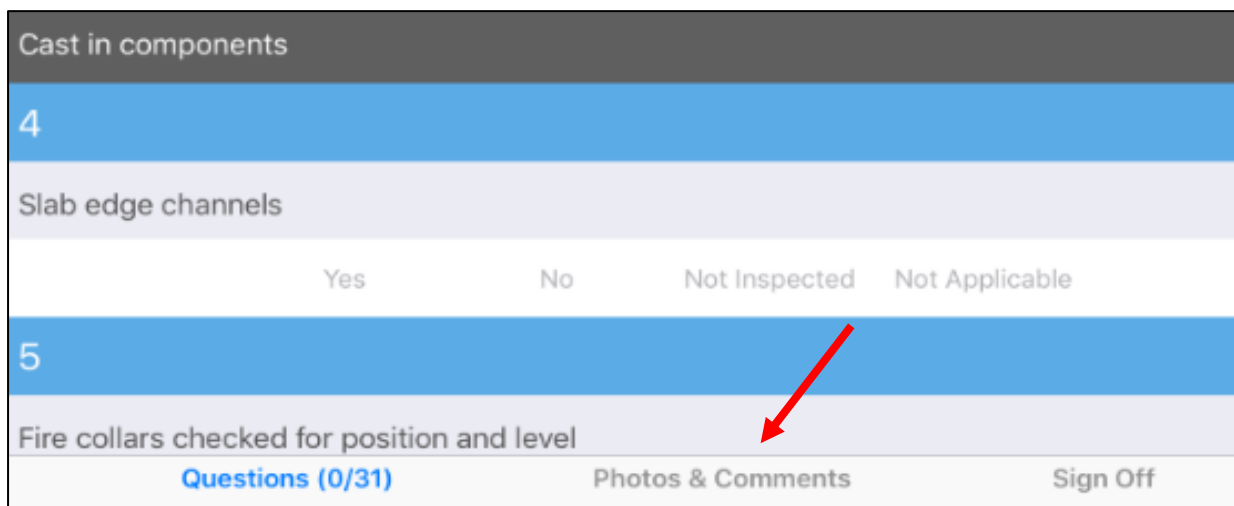
You can save, close and come back to checklists so long as you **sync after raising**. Open checklists show up on location markers as brown, closed as grey.

Even if you have completed the checklist and signed it off, it will not close until you select 'Close checklist' at the bottom of the screen on the signing page.

### 4. How to add a pinpoint to a checklist

For most checklists, it is mandatory for you to pinpoint where you have completed the checklists on a plan. To do this you must:

When you have the checklist open, navigate to the second tab at the bottom of the screen named 'Photos & comments'.

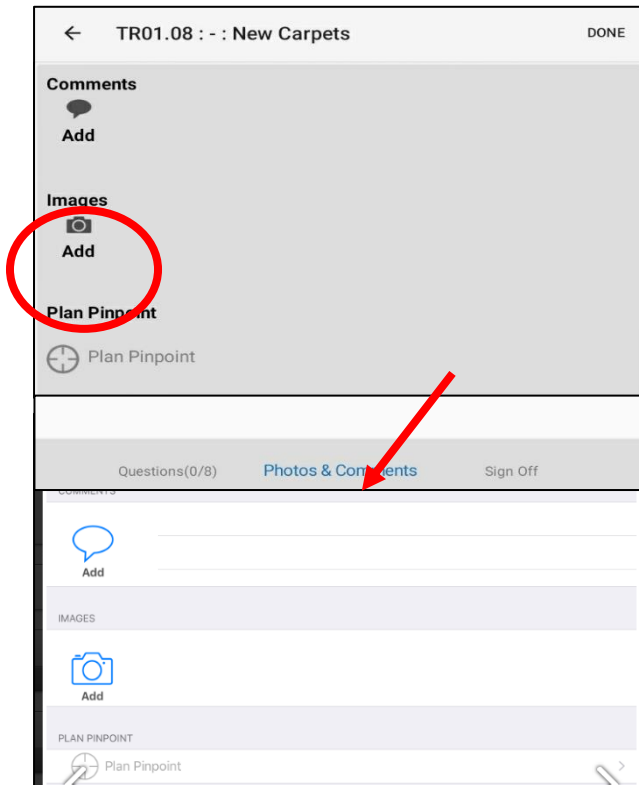


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|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |

Here, if a pinpoint has not been assigned, will be a field name 'Plan Pinpoint' that will be greyed out.

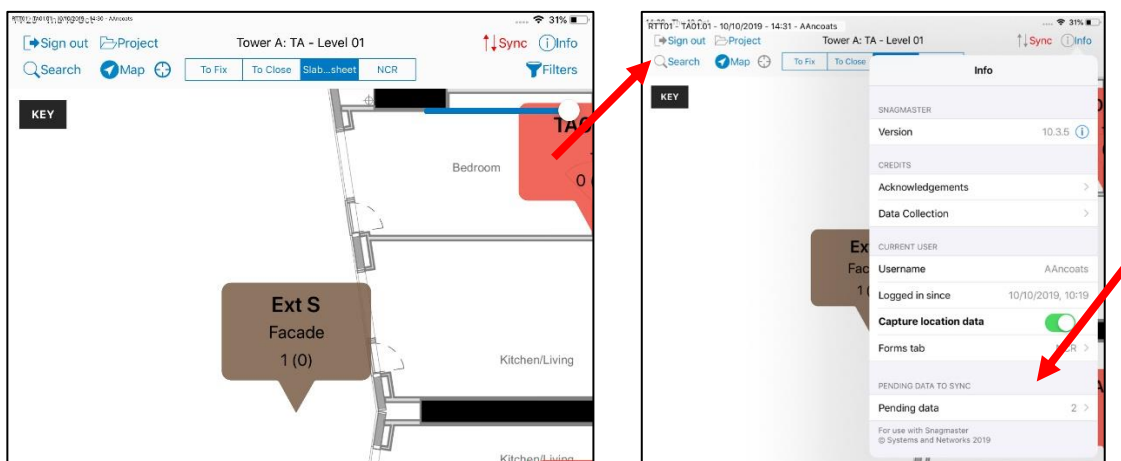


This is how it appears on an android tablet.

Then, a new page will appear containing the zoomed in location of the plan and a blue crosshair located where the location marker was. You can move the crosshair to the exact location of where you completed the checklist by tapping once on the plan. This will be automatically saved, so once you have done this you can just click back and it will take you back to the checklist.

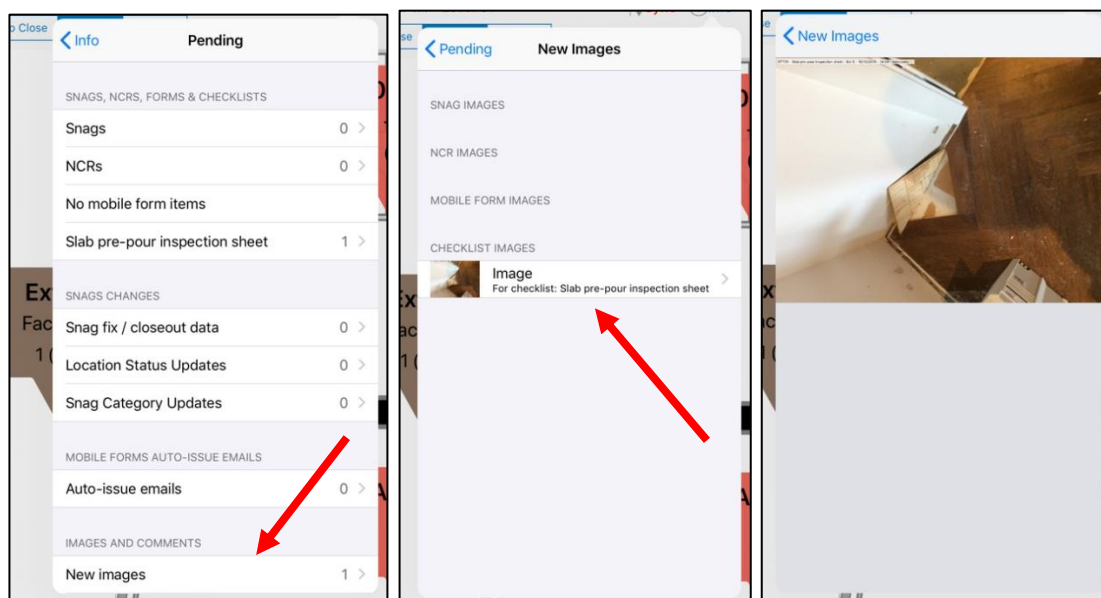
## 5. How to view attached photos on a checklist (and also view photos stored on the device in the app)

### 5.1.1. On apple app (before you have synced)

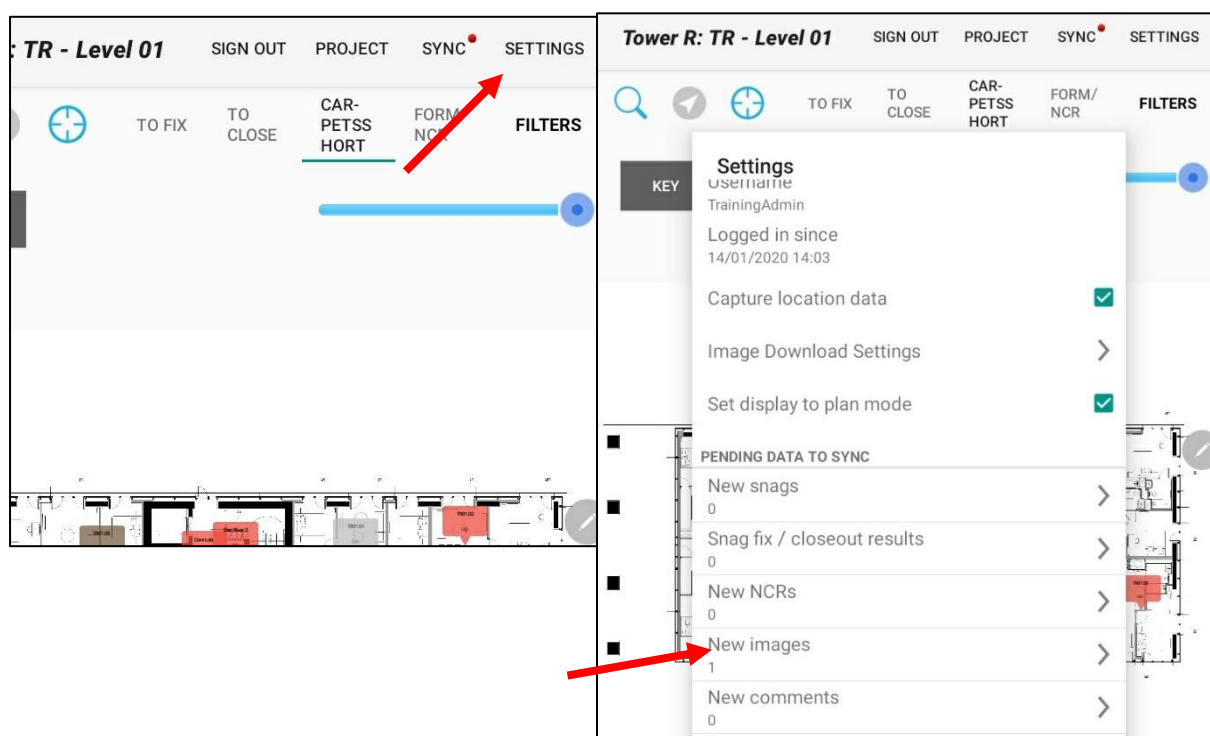


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|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |

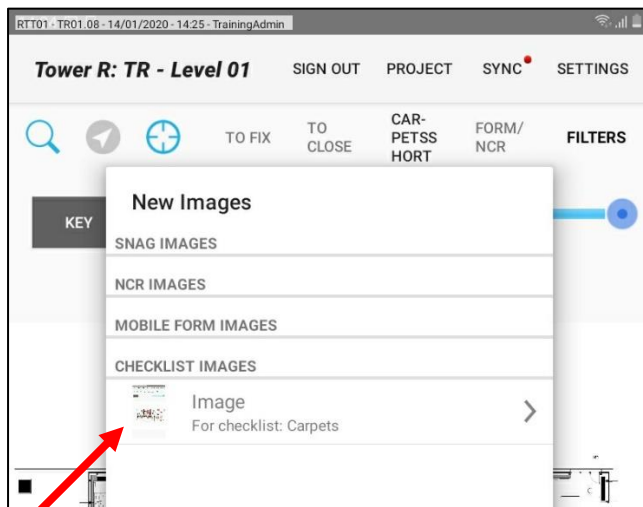


### 5.1.1. On android app (before you have synced)

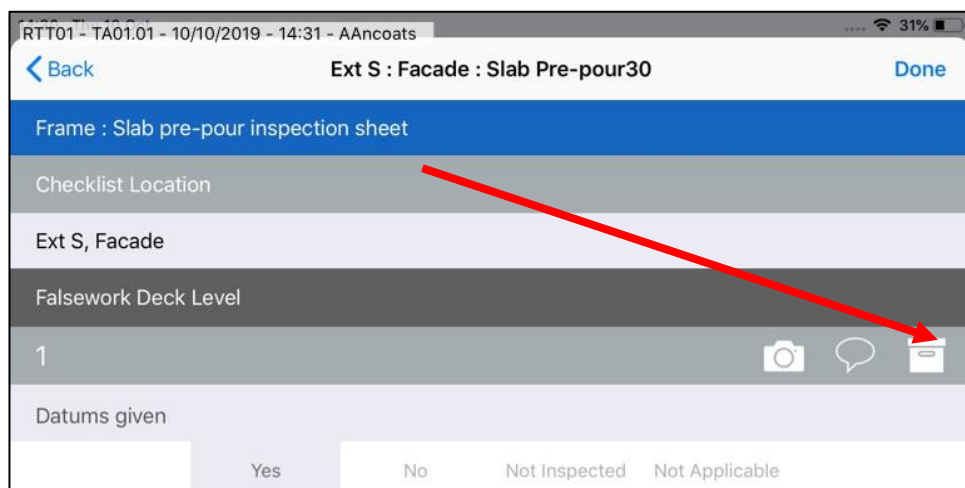
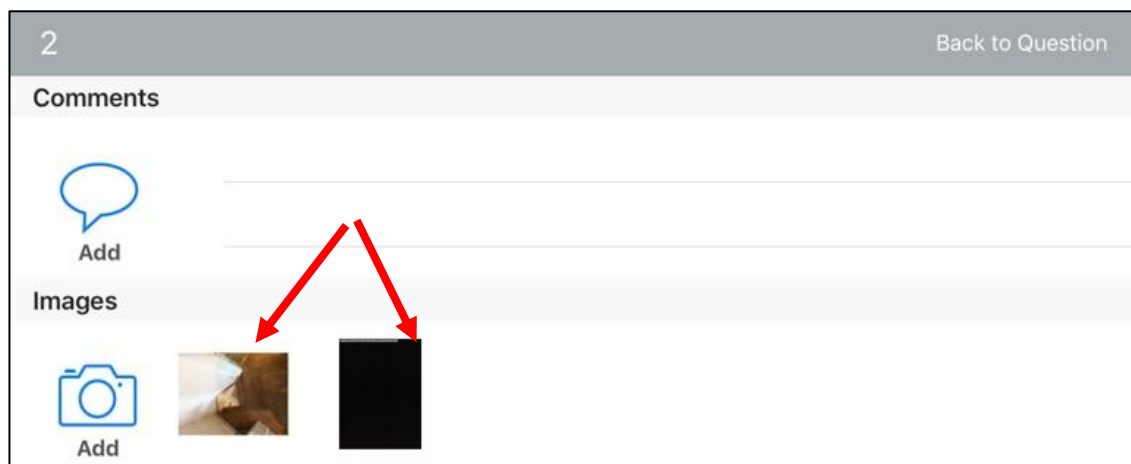


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|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |



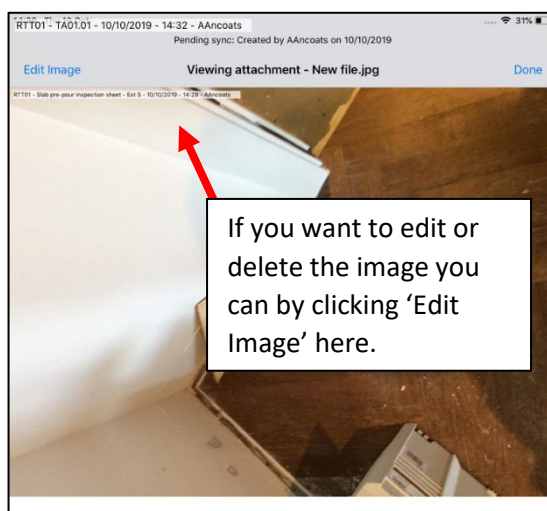
### 5.2.1. On apple app in checklist (before and after you have synced)



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|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |



### 5.2.2. On android app in checklist (before and after you have synced)

← TR01.08 : - : CARPETCODE11 DONE

Carpets

Checklist Location

TR01.08, -

Question

Name

Questions

1   

Are all wall & skirts in good order?

YES NO NOT INSPECTED NOT APPLICABLE 

2   

Is the floor adequately level?  
"Select "No" if requires floor topping"

YES NO NOT INSPECTED NOT APPLICABLE

← TR01.08 : - : CARPETCODE11 DONE

Carpets

Checklist Location

TR01.08, -

Question

Name

Questions

1 BACK TO QUESTION

Comments

Add 

Images

Add 

 14/01/20 189.2 Kb >

 14/01/20 58.6 Kb >

## 6. How to view answer history on a checklist (Date & Time modified and who by)

On the home page, scroll down to the section named 'Checklists'.

|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |

Permissions

Username: TrainingAdmin | Renaker Test and Training

Reports Setup Admin

Test and Training Project

TO FIX 35 12.1%

TO CLOSE 0 0.0%

CLOSED 144 AV CL5/WK (1)

Project Timeline

Yesterday 11:13 Rob Colville closed 1 Slab pre-pour inspection sheet

10/10/19 16:17 1 snag was issued to Renaker Frame Team (FRAME)

10/10/19 14:32 Andy Ancoats uploaded 1 new item

10/10/19 14:32 Andy Ancoats added a photo to snag 291

10/10/19 14:31 Andy Ancoats added a photo to snag 291

10/10/19 14:31 Andy Ancoats added a photo to snag 291

10/10/19 14:31 Andy Ancoats added a photo to snag 291

10/10/19 14:31 Andy Ancoats added a photo to snag 291

10/10/19 14:31 Andy Ancoats added a photo to snag 291

10/10/19 14:31 Andy Ancoats added a photo to snag 291

10/10/19 14:30 Andy Ancoats added a photo to snag 291

Form Registers

Group Name

PERMITS

Clean Up Notice

Sample Daily Record

Drawings (9)

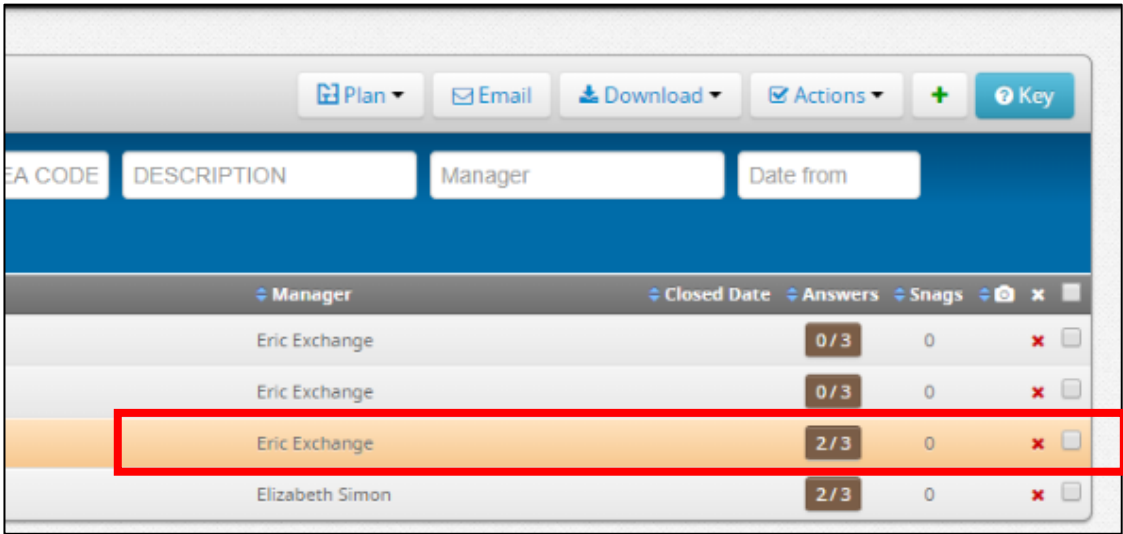
Drawing

Once here, navigate to the trade you are interested in. Then click the number under either 'Open', 'closed', or 'Total' depending on what stage the checklist is at.

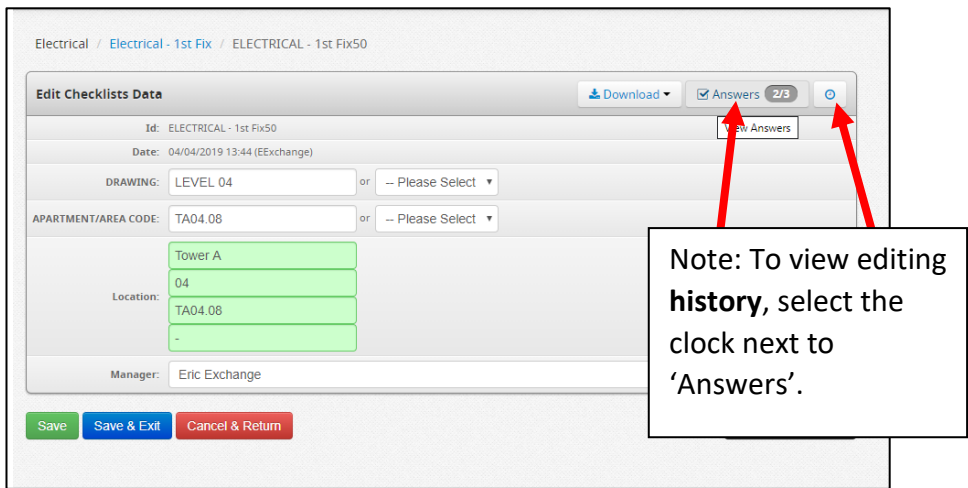
| Checklists      |                             | Open | Closed | Total |
|-----------------|-----------------------------|------|--------|-------|
| Group           | Name                        |      |        |       |
| Drylining       |                             | 1    | 3      | 4     |
| Electrical      |                             | 19   | 24     | 43    |
|                 | Electrical - 1st Fix        | 4    | 15     | 19    |
|                 | Electrical - 1st Fix-new    | 1    | 3      | 4     |
|                 | Electrical - 2nd Fix        | 0    | 2      | 2     |
|                 | Electrical (Combined Fixes) | 14   | 4      | 18    |
|                 | Test List 1                 | 0    | 0      | 0     |
| External Facade |                             |      |        |       |
| Frame           |                             | 20   | 10     | 30    |
| Wardrobes       |                             | 0    | 1      | 1     |
|                 | Carpets                     | 0    | 4      | 4     |

Using the available filters, locate the checklist that you are interested in and select it to open up the checklist information.

|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |



Select where it says ‘Answers[number of questions answered]/[number of questions asked]’ to open the checklist.



Here, on the far right where the answers have been put in, contains the name of the last user to modify each question, the time at which it was done and the date.



|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |

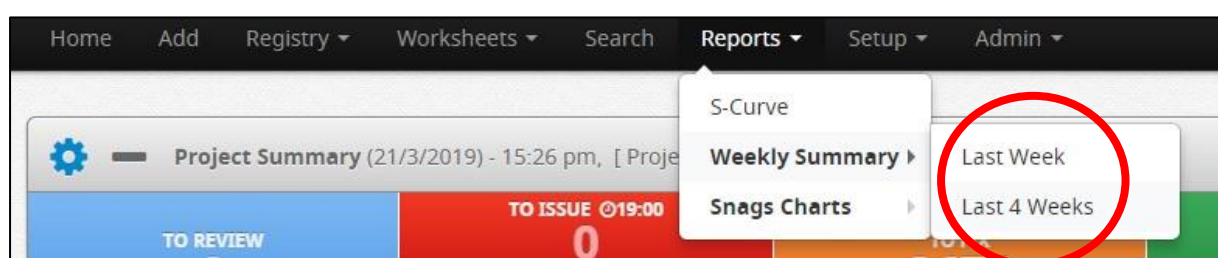
|                                      |                                     |                          |                          |                              |
|--------------------------------------|-------------------------------------|--------------------------|--------------------------|------------------------------|
| <input checked="" type="radio"/> Yes | <input type="radio"/> No            | <input type="radio"/> NI | <input type="radio"/> NA | TrainingAdmin 22/08/19 15:05 |
| <input type="radio"/> Yes            | <input checked="" type="radio"/> No | <input type="radio"/> NI | <input type="radio"/> NA | TrainingAdmin 22/08/19 15:05 |
| <input type="radio"/> Yes            | <input type="radio"/> No            | <input type="radio"/> NI | <input type="radio"/> NA |                              |

## 7. How to track data

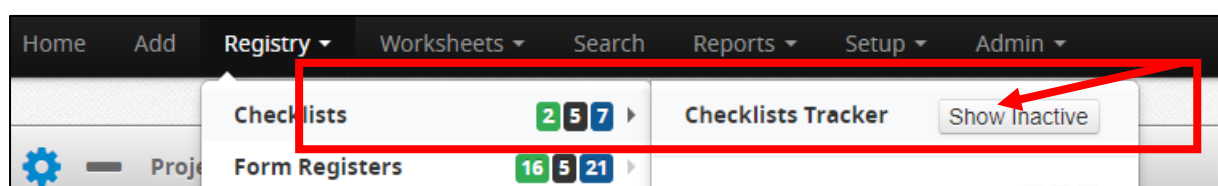
### 7.1. Snags

| Drawings (10 of 111) |       |        |        |        |            |
|----------------------|-------|--------|--------|--------|------------|
| Drawing              | Total | To Fix | To Cls | Closed | Signed Off |
| LG                   | 93    | 4      | 0      | 89     | 0          |
| B1                   | 27    | 0      | 0      | 27     | 0          |
| Mez                  | 1342  | 14     | 34     | 1256   | 0          |
| Ground Floor         | 23    | 0      | 0      | 0      | 0          |

OR...



### 7.2. Checklists

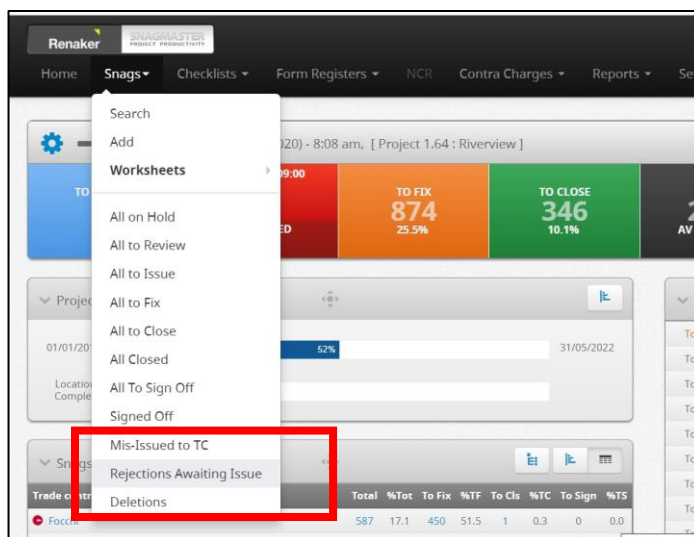


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|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |

## 7.2 Locating Rejected snags

Rejected snags now do not appear in the top project summary lists. You must access them in the 'Snags' dropdown at the top of the portal and scroll to the header named 'Rejected Awaiting Issue'.



## 8. How to select list snags

Select the number of the snag type (To issue/To fix/To close) along the panel on the portal dashboard to access the snagging list.

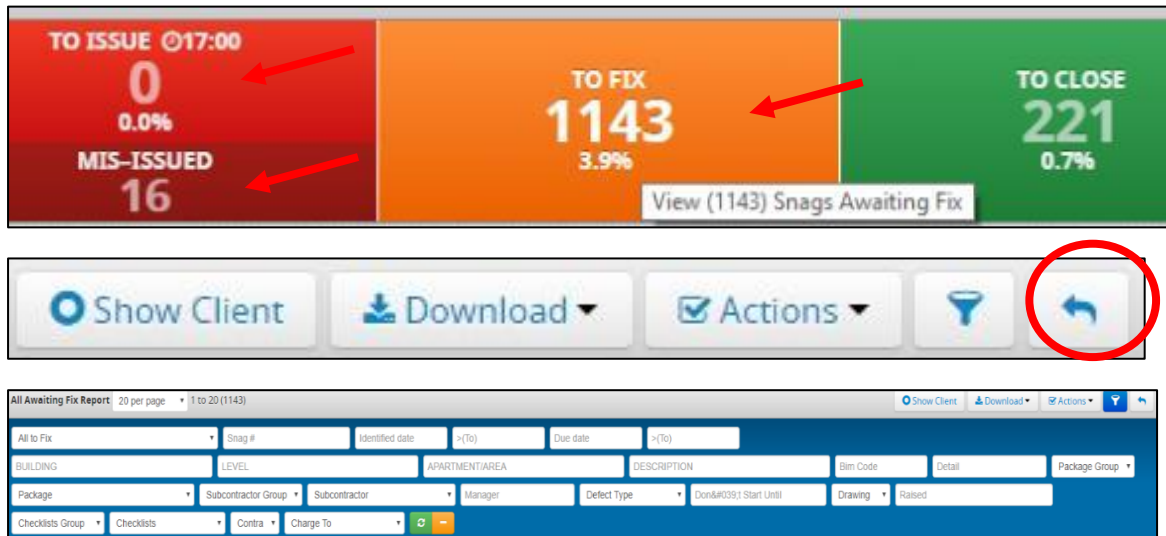


| All Awaiting Fix Report |       |          |          |         |                |    |              |   |  |                                         |        |       |             |               | 20 per page |  | 1 to 20 (1143) |         | Show Client |  |  |  |
|-------------------------|-------|----------|----------|---------|----------------|----|--------------|---|--|-----------------------------------------|--------|-------|-------------|---------------|-------------|--|----------------|---------|-------------|--|--|--|
|                         |       |          |          |         |                |    |              |   |  |                                         |        |       |             |               |             |  |                |         |             |  |  |  |
|                         | 2366  | 08/02/18 | 22/02/18 | dworral | Exchange Court | 04 | 410          | - |  | Scratch to glass unit                   | FOCCHI | FACAD | Dan Worrall | Contra-Charge | No          |  |                | Level 0 |             |  |  |  |
|                         | 16280 | 12/09/18 | 26/09/18 | dworral | Exchange Court | 15 | 1507         | - |  | Defect inside the DGU                   | FOCCHI | FACAD | Dan Worrall | Defect        | Yes         |  |                | Level 1 |             |  |  |  |
|                         | 19302 | 30/10/18 | 13/11/18 | dworral | Exchange Court | 21 | 2107         | - |  | Black spots inside the DGU              | FOCCHI | FACAD | Dan Worrall | Defect        | Yes         |  |                | Level 2 |             |  |  |  |
|                         | 19437 | 30/10/18 | 13/11/18 | dworral | Exchange Court | 35 | 3508         | - |  | Large scratch to DGU done post PM Snags | FOCCHI | FACAD | Dan Worrall | Contra-Charge | Yes         |  |                | Level 3 |             |  |  |  |
|                         | 19619 | 31/10/18 | 14/11/18 | dworral | Exchange Court | 33 | 3307         | - |  | Scratch to DGU                          | FOCCHI | FACAD | Dan Worrall | Contra-Charge | Yes         |  |                | Level 3 |             |  |  |  |
|                         | 19620 | 31/10/18 | 14/11/18 | dworral | Exchange Court | 31 | 3105         | - |  | Scratch to DGU                          | FOCCHI | FACAD | Dan Worrall | Contra-Charge | Yes         |  |                | Level 3 |             |  |  |  |
|                         | 19829 | 05/11/18 | 19/11/18 | dworral | Exchange Court | 25 | 2503         | - |  | Bubble/shell inside the DGU             | FOCCHI | FACAD | Dan Worrall | Defect        | No          |  |                | Level 2 |             |  |  |  |
|                         | 19830 | 05/11/18 | 19/11/18 | dworral | Exchange Court | 25 | 2506         | - |  | Scratches and shell in DGU              | FOCCHI | FACAD | Dan Worrall | Contra-Charge | Yes         |  |                | Level 2 |             |  |  |  |
|                         | 19832 | 05/11/18 | 19/11/18 | dworral | Exchange Court | 26 | 2604         | - |  | Scratch to DGU                          | FOCCHI | FACAD | Dan Worrall | Contra-Charge | Yes         |  |                | Level 2 |             |  |  |  |
|                         | 20399 | 12/11/18 | 26/11/18 | dworral | Exchange Court | 30 | 3003         | - |  | Scratches to outside face of DGU        | FOCCHI | FACAD | Dan Worrall | Contra-Charge | Yes         |  |                | Level 3 |             |  |  |  |
|                         | 20484 | 13/11/18 | 27/11/18 | dworral | Exchange Court | 33 | 3306         | - |  | Defect inside the DGU                   | FOCCHI | FACAD | Dan Worrall | Defect        | No          |  |                | Level 3 |             |  |  |  |
|                         | 20489 | 13/11/18 | 27/11/18 | dworral | Exchange Court | 35 | 3507         | - |  | Defect inside the DGU                   | FOCCHI | FACAD | Dan Worrall | Defect        | No          |  |                | Level 3 |             |  |  |  |
|                         | 21774 | 03/12/18 | 17/12/18 | dworral | Exchange Court | 48 | Ext. - North | - |  | Large black defect inside DGU           | FOCCHI | FACAD | Dan Worrall | Defect        | Yes         |  |                | Level 4 |             |  |  |  |
|                         | 22004 | 05/12/18 | 19/12/18 | dworral | Exchange Court | 29 | 2902         | - |  | Large black blemish inside DGU          | FOCCHI | FACAD | Dan Worrall | Defect        | Yes         |  |                | Level 2 |             |  |  |  |
|                         | 22910 | 11/01/19 | 14/01/19 | ECAtlas | Exchange Court | 11 | 1104         | - |  | Skirting joint lounge                   | RBL    | RBL   | James Crowe | Client Snag   | No          |  |                | Level 1 |             |  |  |  |

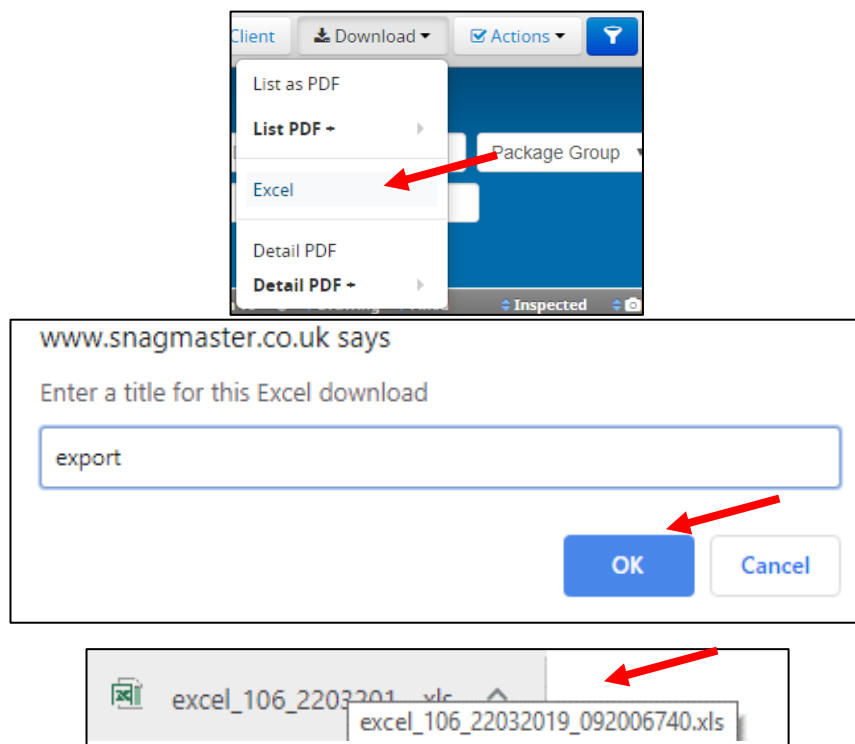
Uncontrolled unless viewed on the Quality Management System

|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |

## 9. How to filter snagging data



## 10. How to export data to Excel





|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |

| ID | CREATOR  | DATE     | DUE      | BUILDING | LEVEL | APARTMENT              | DESCRIPTION          | TC CODE | TC NAME | PKG CODE | PKG TITLE | MGR    | Defect Type | Don't Start | FIXED    | CLOSED   | STATUS | LAT       | LNG       | Client |
|----|----------|----------|----------|----------|-------|------------------------|----------------------|---------|---------|----------|-----------|--------|-------------|-------------|----------|----------|--------|-----------|-----------|--------|
| 1  | cheagaty | 20/05/17 | 02/06/17 | Exchange | 05    | Ext - East             | Missing fxfocchi     | Focchi  | FACAD   | Facade   | Dan Worra | Defect | -           | 26/06/17    | 18/09/17 | dworrall | Closed | 53.487764 | -2.249693 | (N)    |
| 2  | dworrall | 20/06/17 | 04/07/17 | Exchange | 02    | Ext - South Green area | Missing fxfocchi     | Focchi  | FACAD   | Facade   | Dan Worra | Defect | -           | 02/02/18    | 02/02/18 | dworrall | Closed | 53.487750 | -2.250086 | (N)    |
| 3  | dworrall | 20/06/17 | 01/05/18 | Exchange | 02    | Ext - West             | Bulkhead fxfocchi    | Focchi  | FACAD   | Facade   | Dan Worra | Defect | -           | 13/07/17    | 18/09/17 | dworrall | Closed | 53.487805 | -2.249344 | (N)    |
| 4  | dworrall | 20/06/17 | 04/07/17 | Exchange | 02    | Ext - North            | Foxing into fxfocchi | Focchi  | FACAD   | Facade   | Dan Worra | Defect | -           | 13/07/17    | 18/09/17 | dworrall | Closed | 53.488131 | -2.249585 | (N)    |

## 11. What is a pivot chart in Excel?

A pivot chart is a feature of excel that allows you to reorganise and summarise selected columns and rows of data exported from Snagmaster. This allows you to analyse snags (To fix/To close/Mis-issue etc.) by level, subcontractor, manager etc. with ease.

### *How to create a pivot chart*

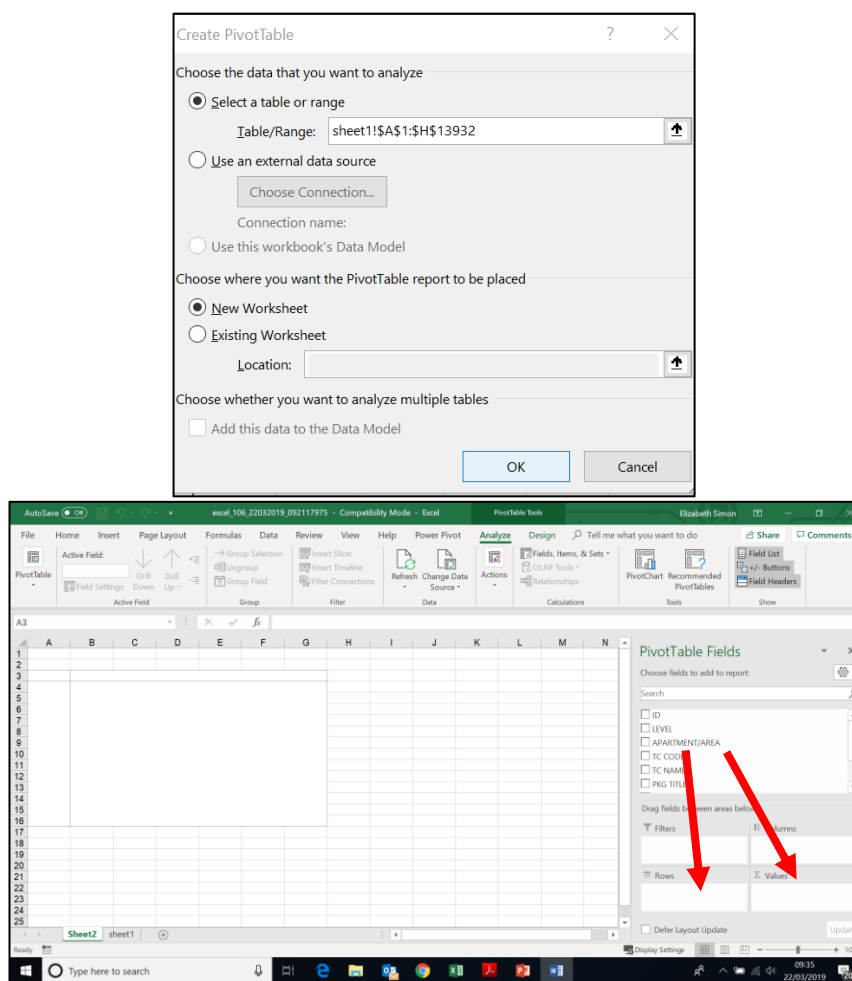
Delete any columns of data that you don't need from the Excel spreadsheet

Select the data range (including the titles); (TIP: Ctrl + Shift DOWN arrow, then RIGHT arrow)

**PivotTable**  
Easily arrange and summarize complex data in a PivotTable.  
FYI: You can double-click a value to see which detailed values make up the summarized total.  
[Tell me more](#)

|       | C     | D      | E           | F          | G          | H           |
|-------|-------|--------|-------------|------------|------------|-------------|
| 1     | oyer  | BULMAN | G Bulman    | Mastic     | James Lamb | Client Snag |
| 1     | oyer  | SDPAIN | SD Paintin  | Painting   | James Lamb | Client Snag |
| 1     | oyer  | RNM    | RNM Servi   | Electrical | James Lamb | Client Snag |
| 1     | oyer  | RNM    | RNM Servi   | Electrical | James Lamb | Client Snag |
| 1     | oyer  | PLASPL | Plaster Plu | Drylining  | James Lamb | Client Snag |
| 1     | oyer  | BULMAN | G Bulman    | Mastic     | James Lamb | Client Snag |
| 13916 | 29386 | 00     | Main Fover  | MAGICR     | MagicMan   | Magic Mar   |
|       |       |        |             | James Lamb |            | Client Snag |

|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |



The ID field must always remain in the “Values” box and show as a “Count of”.

Drag and drop what filters you want. The next pages shows example pivot options to analyse snagging data with.

|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |

E.g. Snags by level and subcontractor

Drag fields between areas below:

Filters

Columns

TC NAME

Rows

LEVEL

Σ Values

Count of ID

Snags by level

Drag fields between areas below:

Filters

Columns

Rows

LEVEL

Σ Values

Count of ID

Snags by level and defect type

Drag fields between areas below:

Filters

Columns

Defect Type

Rows

LEVEL

Σ Values

Count of ID

Snags by level and manager (raiser of snag)

Drag fields between areas below:

Filters

Columns

MGR

Rows

LEVEL

Σ Values

Count of ID

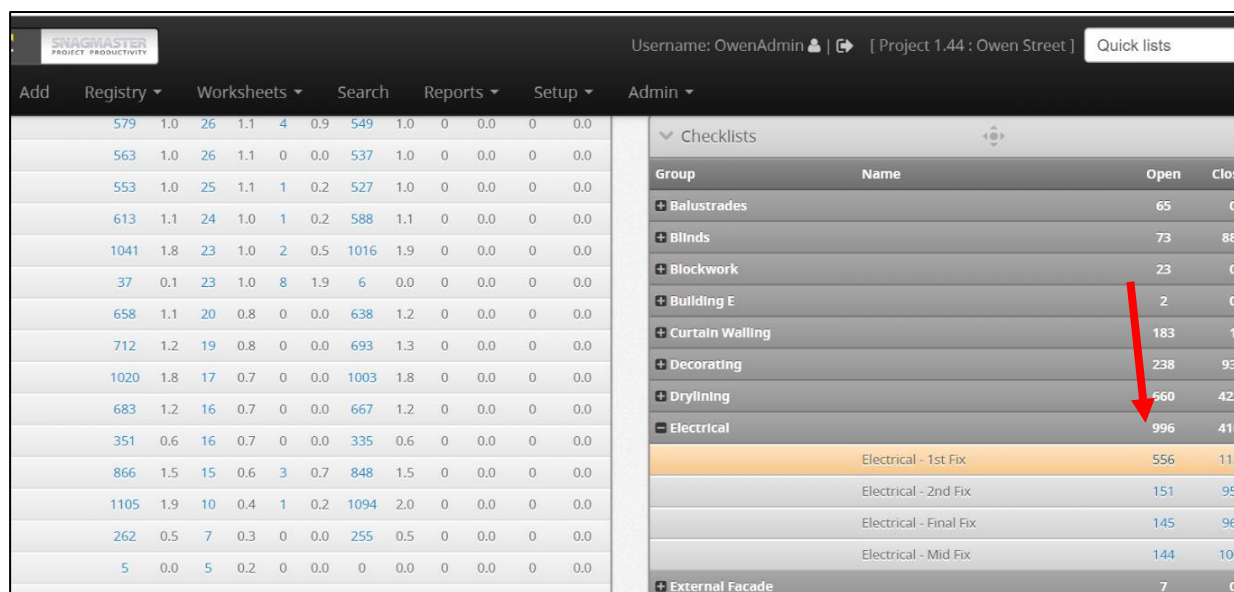


|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |

## 12. How to view number of snags within a checklist (on the portal)

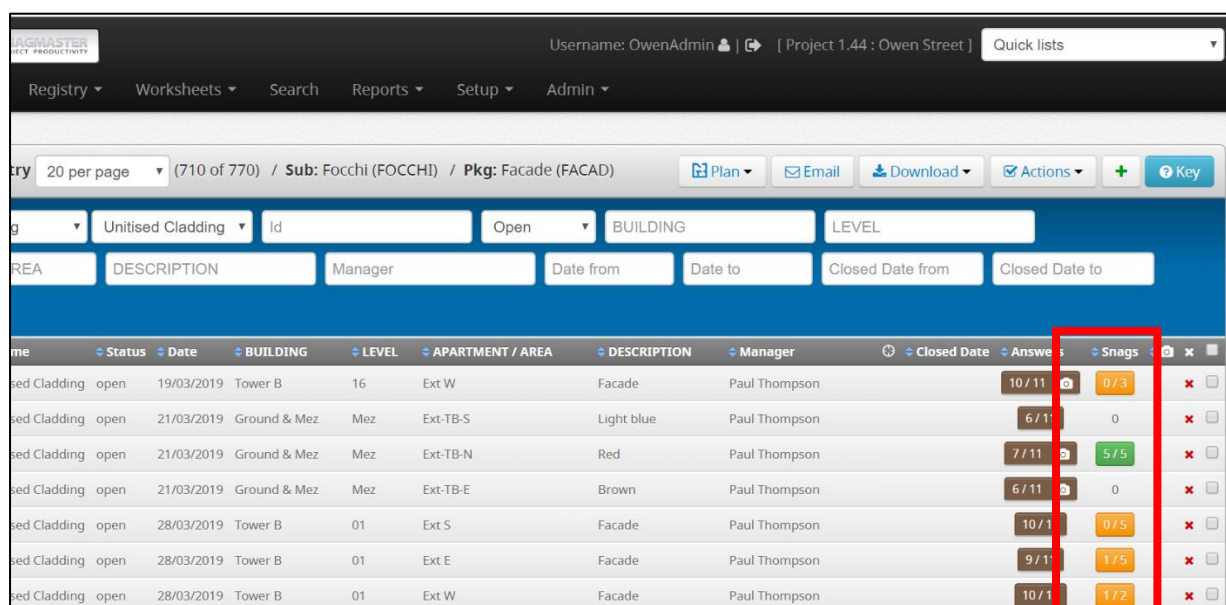
It may necessary for you to view the number of snags that are within a checklist, and to see whether or not those snags are closed or still awaiting to be fixed.

To do this first you must navigate to the selected trade you are interested in under the 'Checklist' section on the homepage.



| Group | Name                   | Open | Closed |
|-------|------------------------|------|--------|
| +     | Balustrades            | 65   | 0      |
| +     | Blinds                 | 73   | 88     |
| +     | Blockwork              | 23   | 0      |
| +     | Building E             | 2    | 0      |
| +     | Curtain Walling        | 183  | 1      |
| +     | Decorating             | 238  | 93     |
| +     | Drylining              | 560  | 423    |
| +     | Electrical             | 996  | 410    |
|       | Electrical - 1st Fix   | 556  | 112    |
|       | Electrical - 2nd Fix   | 151  | 95     |
|       | Electrical - Final Fix | 145  | 96     |
|       | Electrical - Mid Fix   | 144  | 106    |
| +     | External Facade        | 7    | 0      |

Then select the number for either Open, Closed or Total of that trade. This will then bring up a list of all of the checklists within that trade.



| Time        | Status | Date       | BUILDING     | LEVEL | APARTMENT / AREA | DESCRIPTION | Manager       | Closed Date | Answers | Snags |   |  |
|-------------|--------|------------|--------------|-------|------------------|-------------|---------------|-------------|---------|-------|---|--|
| ed Cladding | open   | 19/03/2019 | Tower B      | 16    | Ext W            | Facade      | Paul Thompson | 10 / 11     | 0 / 3   |       | ✗ |  |
| ed Cladding | open   | 21/03/2019 | Ground & Mez | Mez   | Ext-TB-S         | Light blue  | Paul Thompson | 6 / 11      | 0       |       | ✗ |  |
| ed Cladding | open   | 21/03/2019 | Ground & Mez | Mez   | Ext-TB-N         | Red         | Paul Thompson | 7 / 11      | 5 / 5   |       | ✗ |  |
| ed Cladding | open   | 21/03/2019 | Ground & Mez | Mez   | Ext-TB-E         | Brown       | Paul Thompson | 6 / 11      | 0       |       | ✗ |  |
| ed Cladding | open   | 28/03/2019 | Tower B      | 01    | Ext S            | Facade      | Paul Thompson | 10 / 11     | 0 / 5   |       | ✗ |  |
| ed Cladding | open   | 28/03/2019 | Tower B      | 01    | Ext E            | Facade      | Paul Thompson | 9 / 11      | 1 / 5   |       | ✗ |  |
| ed Cladding | open   | 28/03/2019 | Tower B      | 01    | Ext W            | Facade      | Paul Thompson | 10 / 11     | 1 / 2   |       | ✗ |  |

On the right-hand side, it will list [number of snags completed] / [number of snags captured] for each individual checklist. If there are any snags within the checklist that have not been

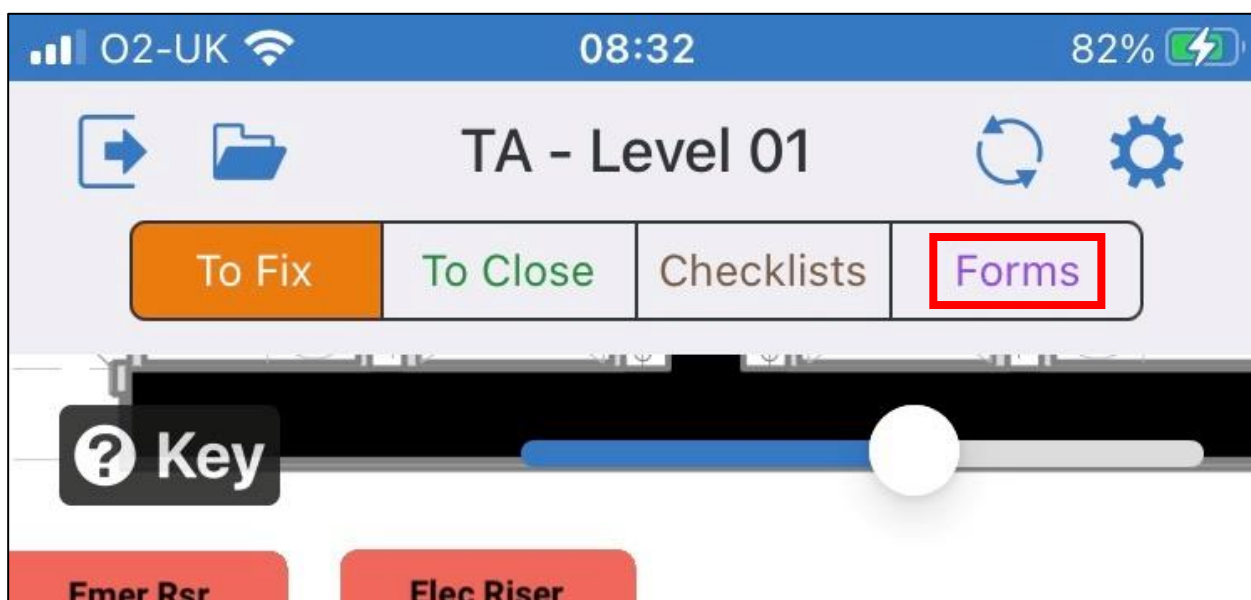
Uncontrolled unless viewed on the Quality Management System

|            |            |                                     |                |
|------------|------------|-------------------------------------|----------------|
| Reference  | GN-QM-01   | <b>SnagMaster Guidance Document</b> | <b>RENAKER</b> |
| Originator | R Colville |                                     |                |
| Revision   | 09         |                                     |                |

closed out, the colour of the snags are **orange**, if all of the snags are closed within the checklist the snags are **green**.

### 13. eForms

Eforms are used on snagmaster for Clean up notices. To access an eForm on the app, once on the plan where you wish to raise a clean-up notice, press the 4<sup>th</sup> tab along the top named 'Forms'. This will bring up a dropdown that contains all of the eForms within the workspace. If your project has Clean up Notices enabled, it should appear in the dropdown. Select it and then 'Forms' should now appear as 'Clean Up Notice'. Now select the location marker where you wish to raise the clean up notice and it will bring up an eForm onto your screen.



Select who is raising the form ('Recorded By'), the Package and a pinpoint, as well as the response time (24 hrs or Immediate). There are also fields named 'Areas to be cleaned' and 'Items to be removed', you must write in these fields and attach photos otherwise you cannot save the eForm. Once all these fields have been inputted, if you save, sync and reopen the eForm it will give you the form details and status and is automatically distributed to the sub-contractor associated to that trade.

You can then close the eForm once the works have been completed either through the app or on the portal directly.

Contact [mikeduddy@renaker.com](mailto:mikeduddy@renaker.com) for further guidance with issue/problem resolution.

# **SnagMaster Subcontractor Training**

06 August 2024



## Objectives

- Understand how snags are issued and received
- Use the app and the website to view and respond to snags
- Add photographs and comments to snags
- Mark snags as fixed
- Reject snags where they have been wrongly assigned



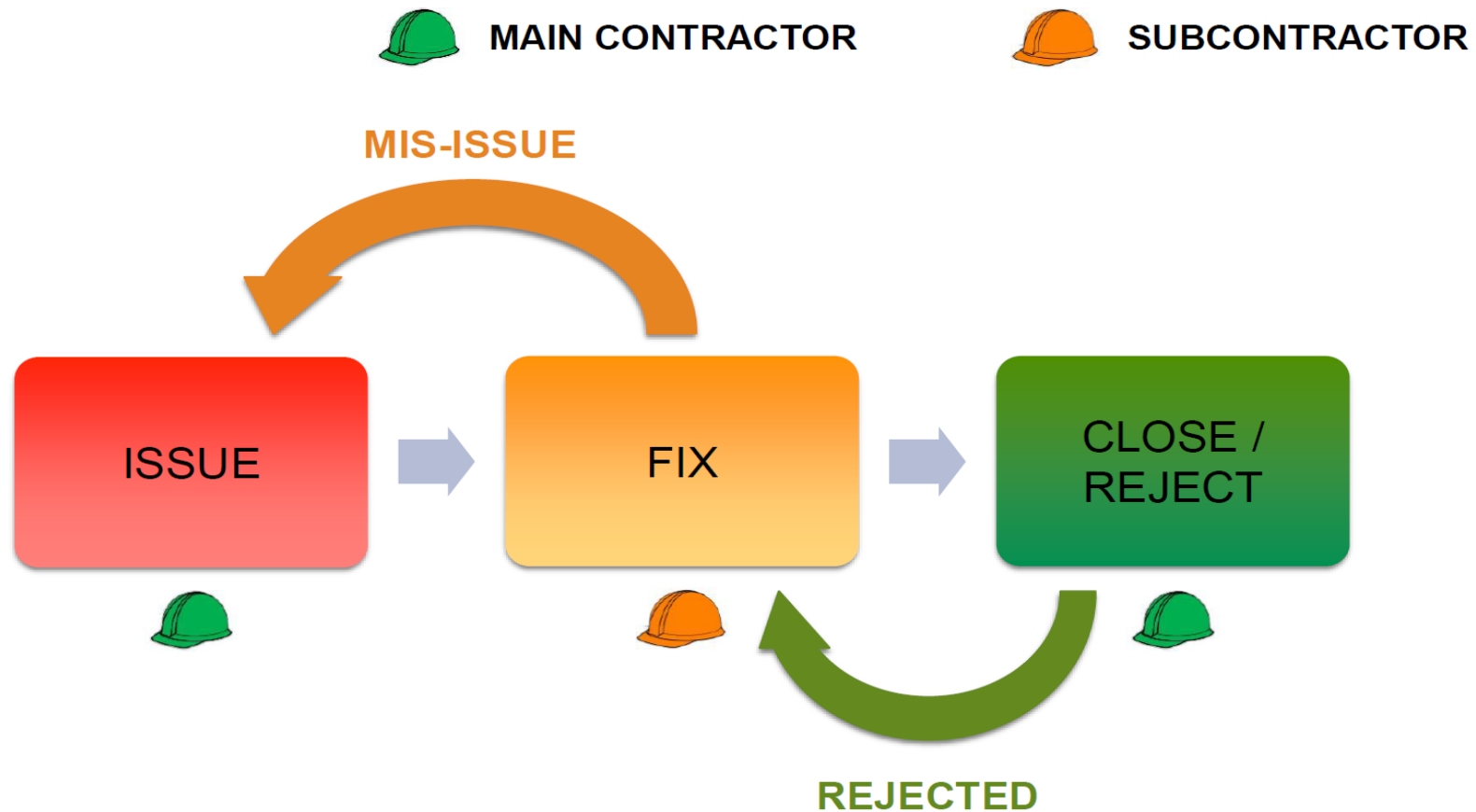
## How SnagMaster works

- Snags are recorded by Renaker Build on site using 'phones or tablets.
- Snags are allocated by
  - Trade
  - Subcontractor
  - Location, e.g. apartment, corridor, or lift
  - Level
- Snags also have other detail, e.g. why it's a snag, when it's due, photos and a "pinpoint" to show the location



## How SnagMaster works (continued)

- The process flow looks like this;



## How SnagMaster works (Continued)

- Snags are issued as a package to subcontractors towards the end of each working day
- Subcontractors fix the snags within the timescales and mark them as “fixed” when complete.
- “Synchronising” sends the information back to Renaker.
- Subcontractors can select “mis-issue” if the snag is wrongly assigned.
- Renaker will then assess if the snags are complete to the necessary standard and if so, they will be marked as “closed”

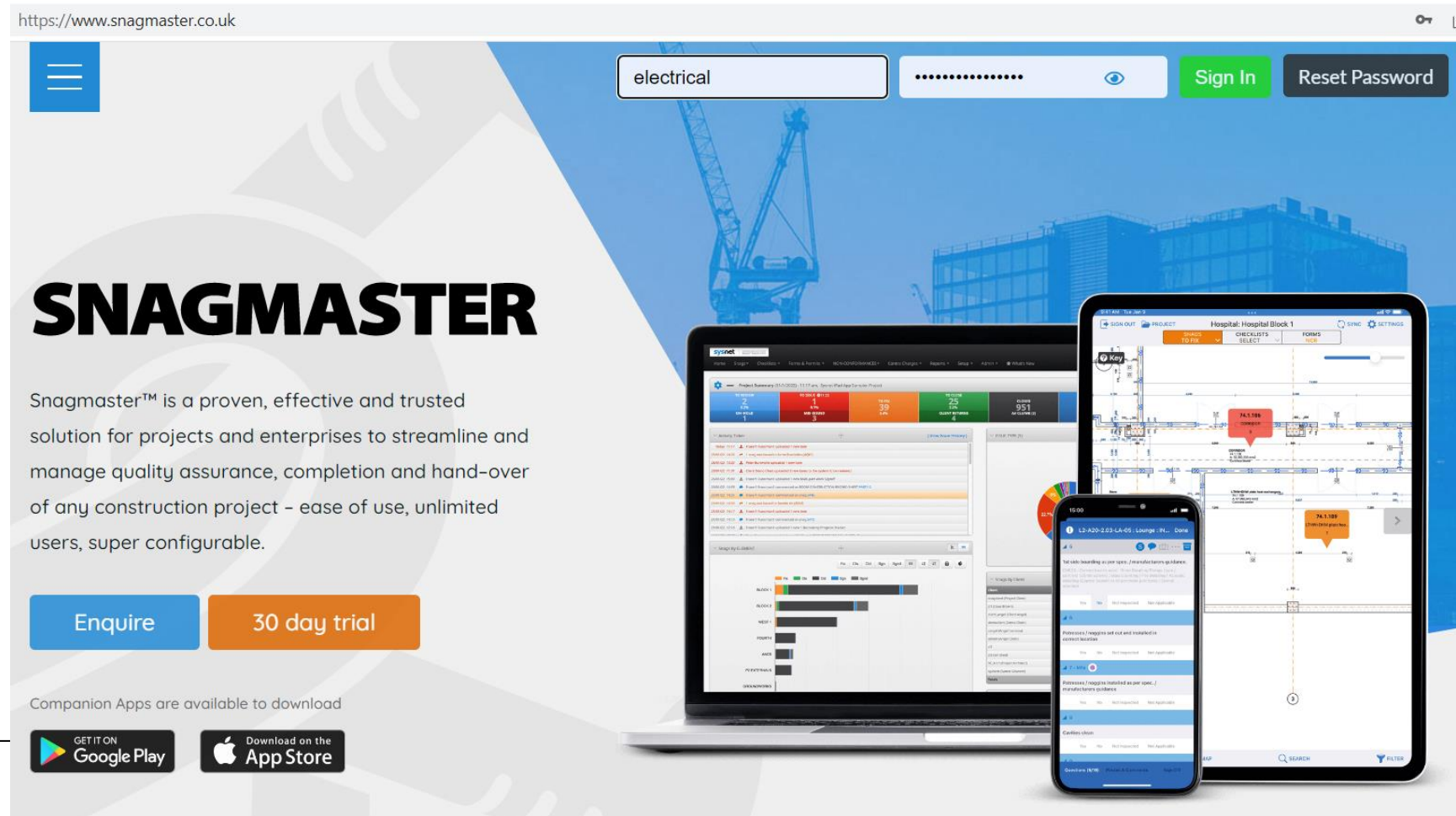
## Receiving Snags

- Snags are emailed to the subcontractors main contact once per day (note, only if and when there are snags to be issued)
- The best way to view your overall position with snags is through the portal, accessed at [www.snagmaster.co.uk](http://www.snagmaster.co.uk)
- The snag summary can be viewed to see what snags have been issued (mobile devices can access it too via a browser, e.g. Safari or Chrome)
- It is best to close snags through the app, either through an Apple or Android device



## Portal access – Laptop or Desktop

- Go to [www.snagmaster.co.uk](https://www.snagmaster.co.uk)
- Log in using your username and password



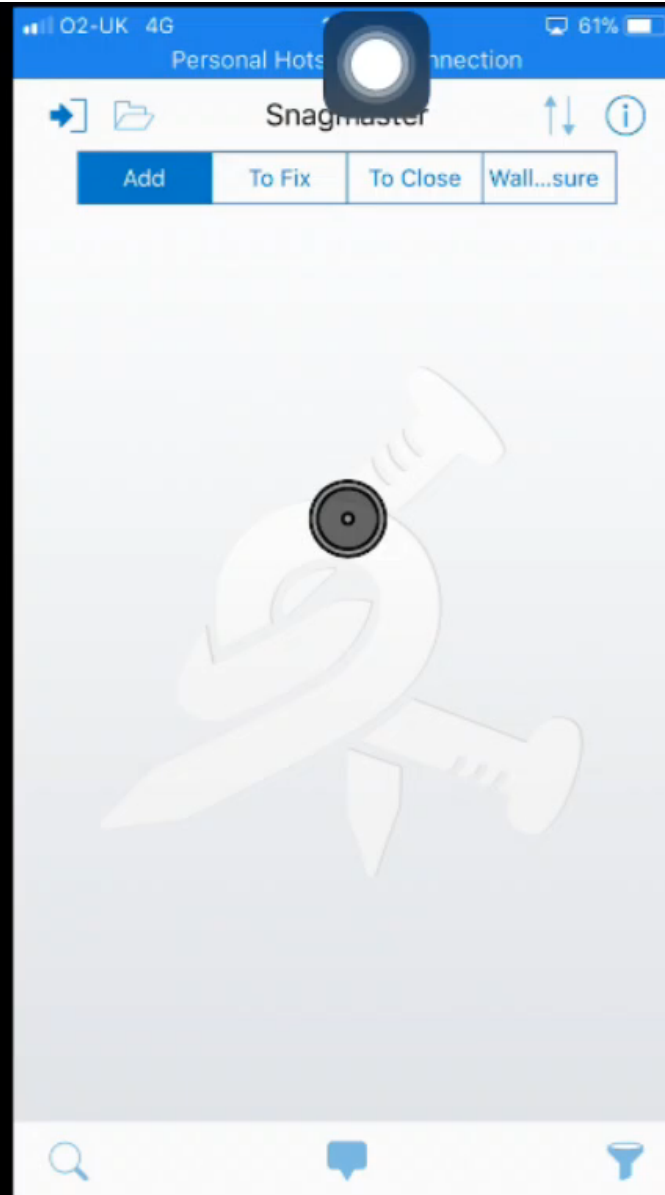
## **App access – Phone or iPad**

- Download the free app (from AppStore or PlayStore)
- Sign in and “SYNC” ..... Note, use a WiFi network it's much quicker
- Always SYNC when you can to ensure fixed snags are uploaded and new snags are downloaded.
- You need a separate sign-in username for each Renaker site.

## **Operating the App** *\*videos on the next slides\**

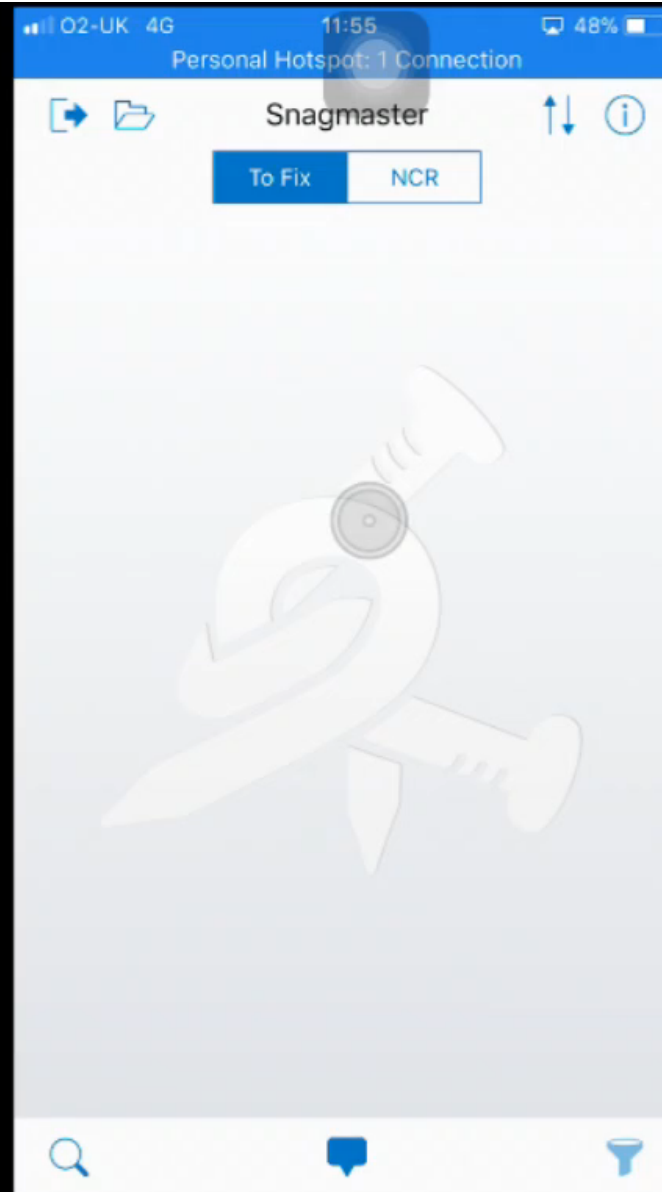
- Logging in and opening the App
- Snags are organised by drawing (plan) type, then by level, then by floor location
- You can “pinch” & “zoom” on the map
- Tap an ‘Orange’ location marker to:
  - view the snag data
  - add comments or photos
  - “fix” or “mis-issue” (if it’s not work your company carries out).
- **Remember** to SYNC when complete.





# SnagMaster Subcontractor Training

**RENAKER**



## **Trouble logging into SnagMaster?**

- Double check you've entered your username and password details correctly
- Check your internet access.
- If you're using mobile data make check you have not out of data and the SnagMaster app is set to allow mobile data use
- Try logging in from someone else's device
- If you still can't access SnagMaster, speak to your Renaker Construction Manager



**Any Questions?**

fisher acoustics

Port Street, Manchester

---

## Façade Acoustic Performance Specification

June 2022

Report Reference: Z0-FAC-A180-Sp-XX-001

---

Flint Glass Works, 64 Jersey Street, Manchester, M4 6JW

0161 605 0905 

info@fisheracoustics.co.uk 

# fisher acoustics

---

PROJECT TITLE PORT STREET, MANCHESTER

REPORT TITLE FAÇADE ACOUSTIC PERFORMANCE SPECIFICATION

CLIENT MANCHESTER (PORT STREET) LIMITED  
HORSESHOE FARM  
ELKINGTON WAY  
ALDERLEY EDGE  
CHESHIRE  
SK9 7GU

REPORT REFERENCE Z0-FAC-A180-SP-XX-001

DATE JUNE 2022

AUTHOR MATT FISHER, BENG (HONS) CENG MIOA

## DOCUMENT HISTORY

FIRST ISSUE 10 JUNE 2022

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## 1.0 INTRODUCTION

1.1 The design and construction of the development shall meet all requirements of the Local Planning Authority and the requirements of the Building Regulations. In addition, the acoustic criteria given in this specification shall be achieved. If a conflict between requirements is identified, this shall be brought to the attention of the Contract Administrator with a recommended action to resolve such conflict. No action shall be undertaken to implement the proposed solution until agreement has been received in writing from the Contract Administrator.

1.2 Where building elements are required to exhibit a minimum laboratory acoustic performance, evidence of compliance with the Specification shall be submitted no later than two weeks after the award of the relevant sub-contract package and shall be complete and unabridged. As a minimum the evidence shall contain:

- 1 the laboratory test results presented in tabular and graphic form over the frequency range required in the relevant British Standard.
- 2 a full written and drawn description giving details of materials, dimensions and thicknesses of the principal components, together with details of any frame used to enclose the sample in the test condition.

All test reports shall apply, in all respects, to materials, manufacture, quality control, design and standard of installation for the products intended to be provided on the Contract. Any deviations shall be noted with a robust evaluation of the probable effects on the tested acoustic performance.

If the Contractor cannot supply evidence of compliance, or the evidence is not to the satisfaction of the Employer, then the Contractor shall include in the Tender for the expense of post contract award testing, at a test laboratory that holds UKAS accreditation for the test type, to show full compliance with the Specification requirements. The testing shall be carried out within eight weeks of the award of the relevant sub-contract package and the results sent to the Employer's Acoustic Consultant within a further two weeks.

## 2.0 INTRUSIVE NOISE AND FLANKING SOUND INSULATION

The design and installation of all façade elements shall be such that noise levels within the residential dwellings comply with the values given in Table 1, with all opening lights closed.

| Room Type                           | Spatially averaged equivalent continuous noise level |
|-------------------------------------|------------------------------------------------------|
| Living Rooms, Daytime (07.00-23.00) | 35 dB L <sub>Aeq</sub> , 1 hour                      |
| Bedrooms, Daytime (07.00-23.00)     | 35 dB L <sub>Aeq</sub> , 1 hour                      |
| Bedrooms, Night time (23.00-07.00)  | 30 dB L <sub>Aeq</sub> , 1 hour                      |

**Table 1:** Maximum allowable intrusive noise levels in dwellings

Typical individual maximum noise levels within bedrooms due to external noise sources shall not be in excess of 45 dB L<sub>Amax</sub> between 23.00 and 07.00 hours.

### External Wall, Podium

The sound reduction index of external walls to the podium apartments shall be not less than as stated in Table 2 when measured in a laboratory in accordance with BS EN ISO 10140-2: 2021 and rated in accordance with BS EN ISO 717-1: 2020. The performance requirements include the window reveal areas.

| Non-Vision Panel Type/ Location                       | Sound Reduction Index (dB)<br>@ Octave Band Centre Frequency (Hz) |        |        |        |      |      |      |
|-------------------------------------------------------|-------------------------------------------------------------------|--------|--------|--------|------|------|------|
|                                                       | 63 Hz                                                             | 125 Hz | 250 Hz | 500 Hz | 1kHz | 2kHz | 4kHz |
| Brickwork, SFS system drylined internally             | 25                                                                | 32     | 39     | 48     | 50   | 50   | 50   |
| Insulated metal panel, SFS system drylined internally | 20                                                                | 30     | 39     | 48     | 50   | 50   | 50   |

**Table 2:** Minimum sound reduction index of external walls (podium) to dwellings





**Non-Vision Panels of Unitised Curtain Wall**

The sound reduction index of non-vision panels of the unitised curtain wall shall be not less than as stated in Table 3 when measured in a laboratory in accordance with BS EN ISO 10140-2: 2021 and rated in accordance with BS EN ISO 717-1: 2020. If required, the acoustic benefit of the drylining to the non-vision panels can be allowed to contribute to the performance of the panels.

The performance requirements relate to the panels and associated framing or support systems and details necessary to form junctions between the non-vision panels and other abutting elements.

| Non-Vision Panel Type/ Location | Sound Reduction Index (dB)<br>@ Octave Band Centre Frequency (Hz) |        |        |        |      |      |      |
|---------------------------------|-------------------------------------------------------------------|--------|--------|--------|------|------|------|
|                                 | 63 Hz                                                             | 125 Hz | 250 Hz | 500 Hz | 1kHz | 2kHz | 4kHz |
| Non-vision panel                | 17                                                                | 28     | 38     | 45     | 50   | 50   | 50   |

**Table 3:** Minimum sound reduction index of non-vision panels to dwellings

### Vision Panels and windows

The sound reduction index of vision panels and windows to the residential areas shall be not less than as stated in Table 4 when measured in a laboratory in accordance with BS EN ISO 10140-2: 2021 and rated in accordance with BS EN ISO 717-1: 2020. The performance requirements relate to the glazing and associated framing or support systems, seals to opening lights and details necessary to form junctions between the vision panels and windows and other abutting elements.

| Vision Panel/Window Type | Sound Reduction Index (dB)<br>@ Octave Band Centre Frequency (Hz) |        |        |        |      |      |      |
|--------------------------|-------------------------------------------------------------------|--------|--------|--------|------|------|------|
|                          | 63 Hz                                                             | 125 Hz | 250 Hz | 500 Hz | 1kHz | 2kHz | 4kHz |
| TYPE A                   | 25                                                                | 28     | 35     | 40     | 44   | 46   | 53   |
| TYPE B                   | 25                                                                | 28     | 31     | 38     | 41   | 44   | 53   |
| TYPE C                   | 22                                                                | 26     | 27     | 35     | 38   | 38   | 45   |
| TYPE D                   | 20                                                                | 24     | 24     | 31     | 37   | 37   | 37   |

**Table 4:** Minimum sound reduction index of vision panels and windows to habitable rooms

The locations of the vision panel and window specifications are illustrated in Figures 1 to 7.

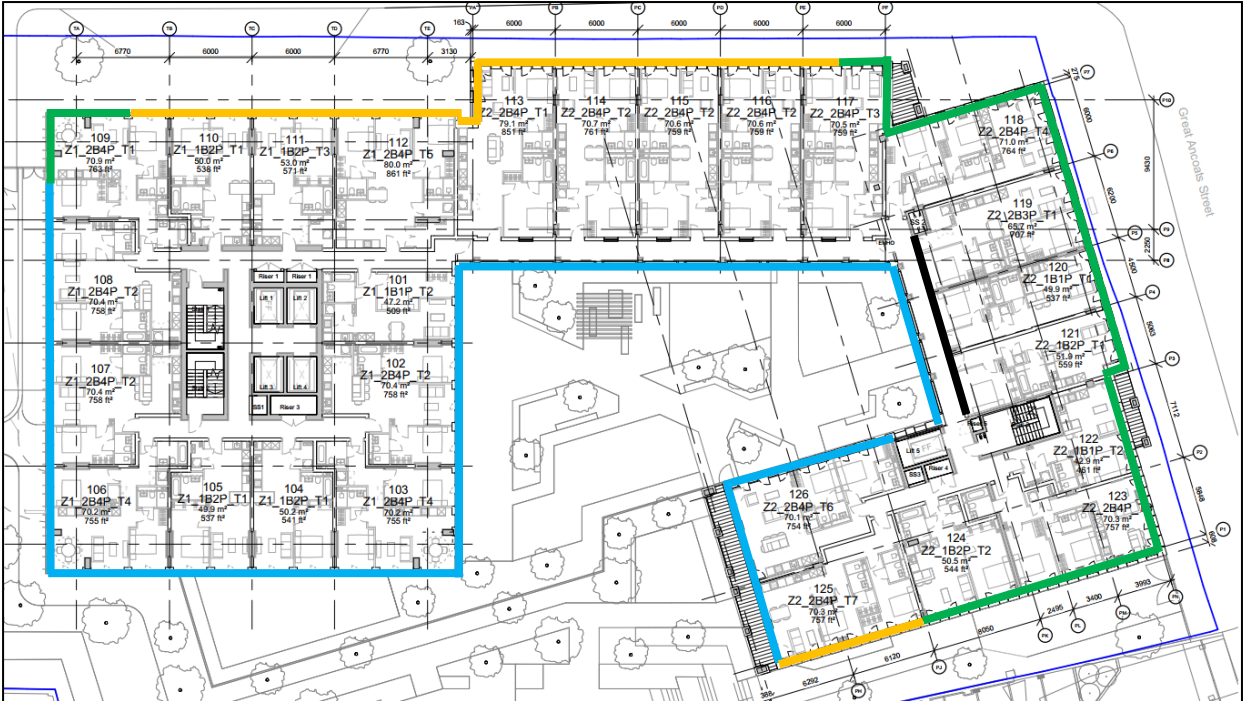


Figure 1: Acoustic specification location plan, Level 01 to Level 06

**Key**

- Acoustic Specification A
- Acoustic Specification B
- Acoustic Specification C
- Acoustic Specification D



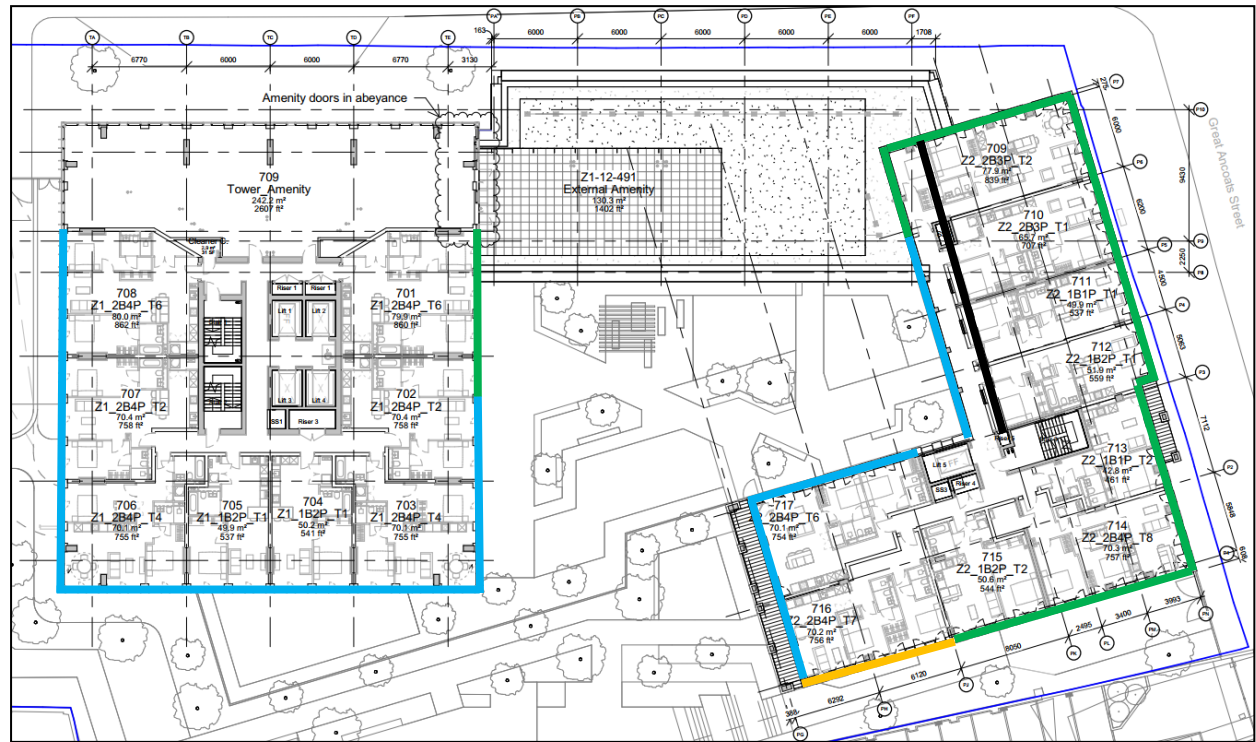


Figure 2: Acoustic specification location plan, Level 07 and Level 08

**Key**



- Acoustic Specification A
- Acoustic Specification B
- Acoustic Specification C
- Acoustic Specification D

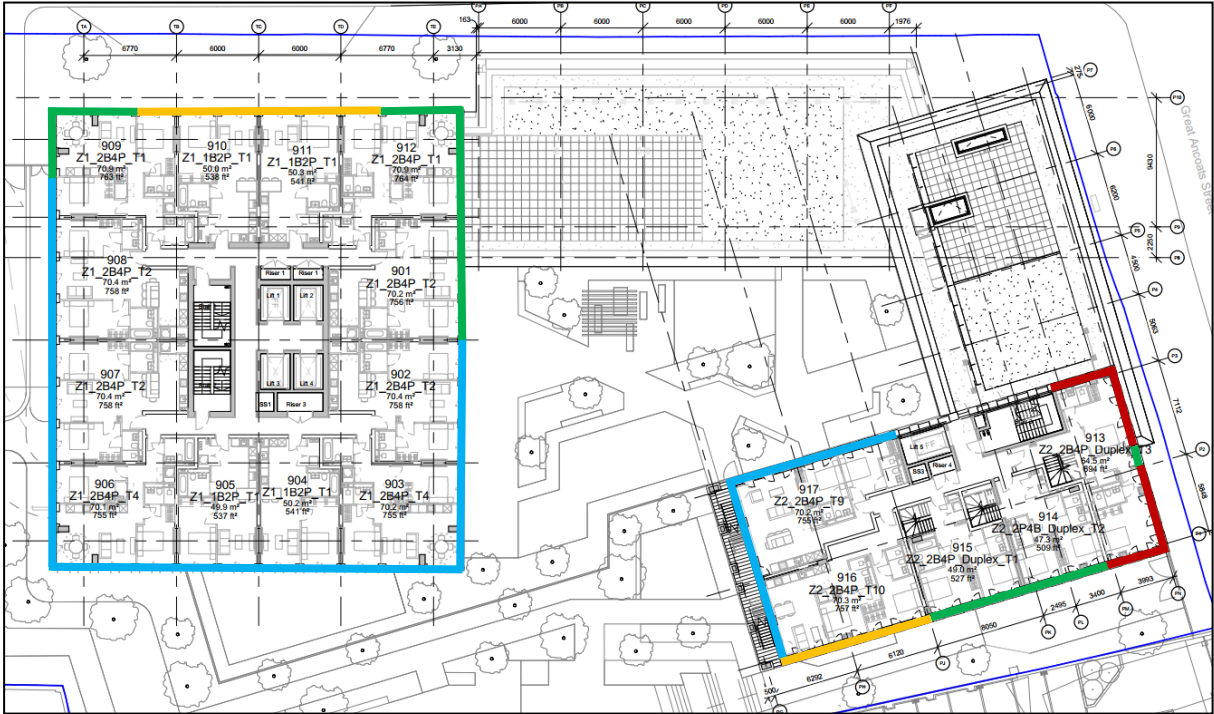


Figure 3: Acoustic specification location plan, Level 09

**Key**



- Acoustic Specification A
- Acoustic Specification B
- Acoustic Specification C
- Acoustic Specification D

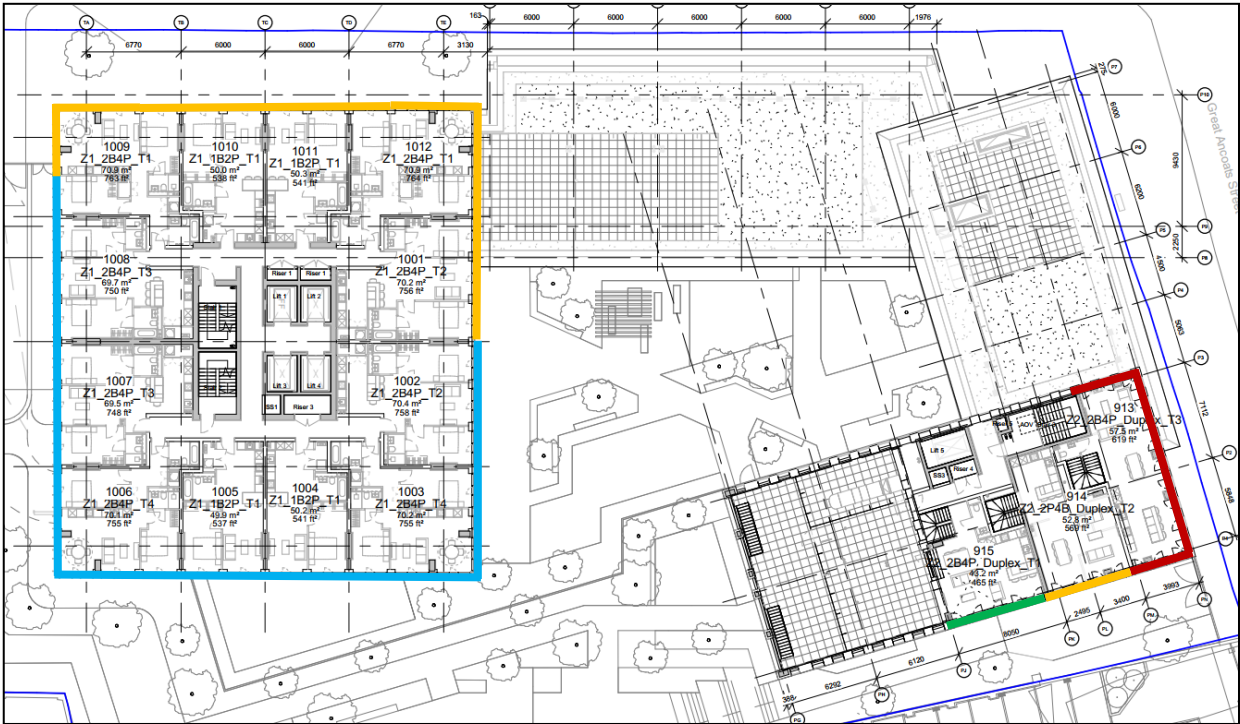


Figure 4: Acoustic specification location plan, Level 10

**Key**



- Acoustic Specification A
- Acoustic Specification B
- Acoustic Specification C
- Acoustic Specification D



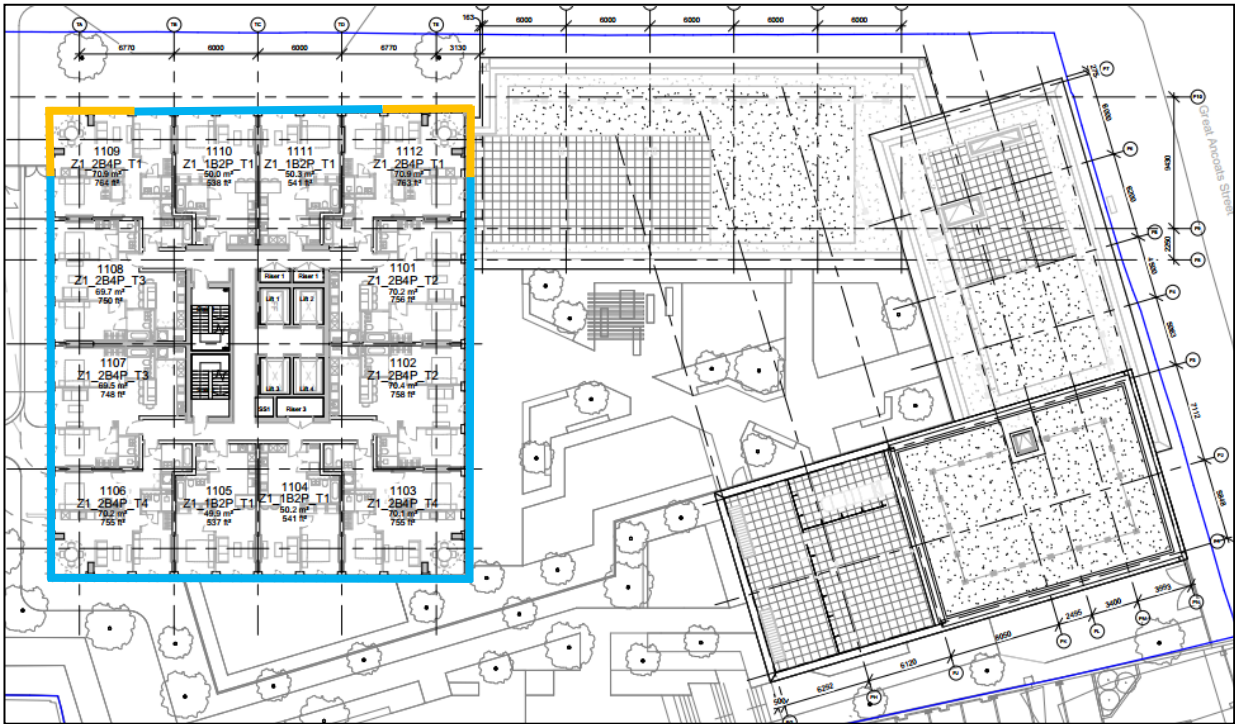
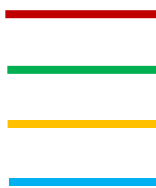


Figure 5: Acoustic specification location plan, Level 11 to Level 20

**Key**



- Acoustic Specification A
- Acoustic Specification B
- Acoustic Specification C
- Acoustic Specification D

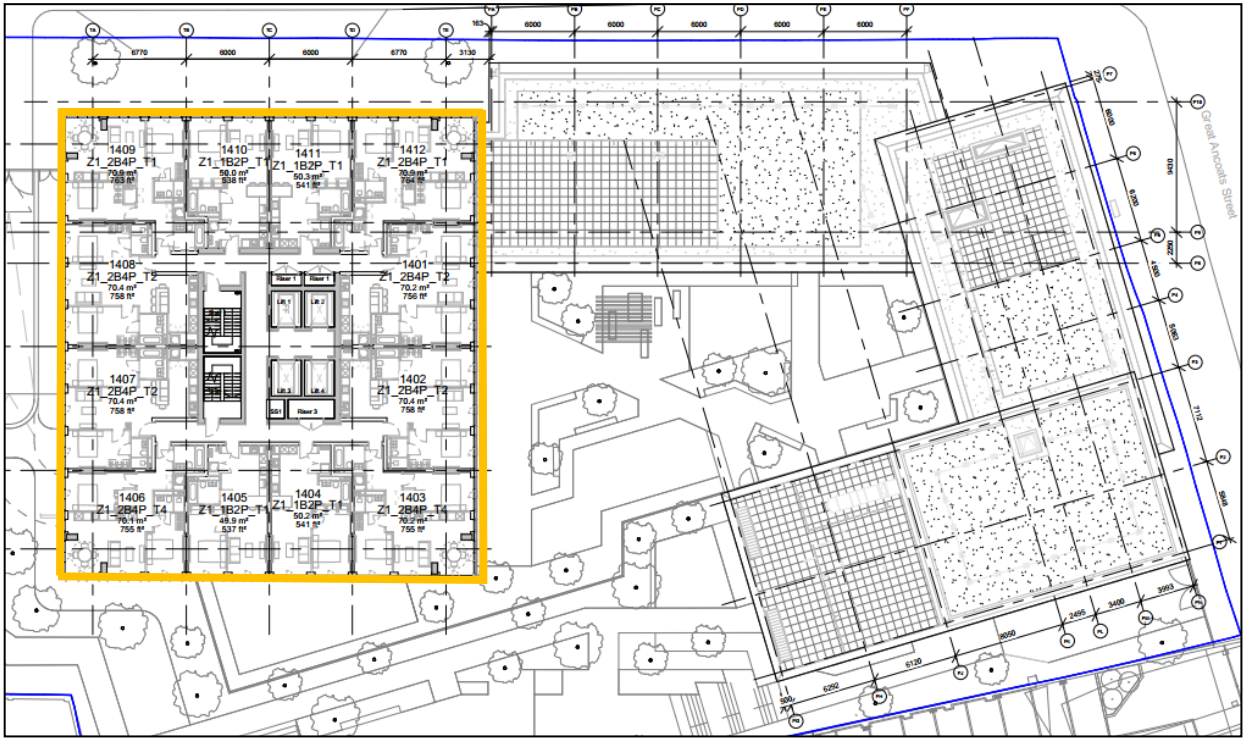


Figure 6: Acoustic specification location plan, Level 21 to Level 30

Key

- Acoustic Specification A
- Acoustic Specification B
- Acoustic Specification C
- Acoustic Specification D

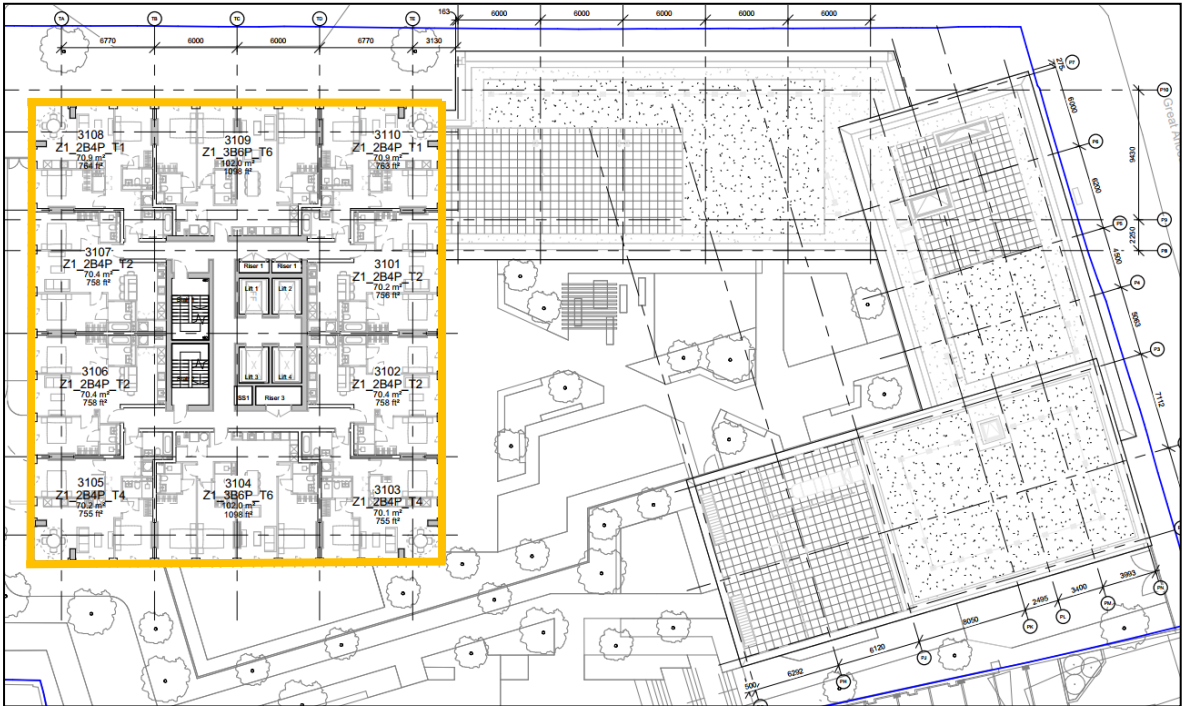


Figure 7: Acoustic specification location plan, Level 31 to Level 32

**Key**

- Acoustic Specification A
- Acoustic Specification B
- Acoustic Specification C
- Acoustic Specification D





The Weighted Sound Reduction Index of the curtain wall to the non-residential rooms, when tested in an accredited laboratory in accordance with BS EN ISO 10140-2: 2021 or BS EN ISO 16283-3: 2016 and rated in accordance with BS EN ISO 717-1: 2020, shall be not less than as stated in Table 5. The performance requirements relate to the composite performance of the curtain wall system, including vision and non-vision panels, associated framing support systems and sealing details.

| Room/Area           | Minimum Weighted Sound Reduction Index (Rw) |
|---------------------|---------------------------------------------|
| Commercial Units    | 42 dB                                       |
| Management Suite    | 33 dB                                       |
| Amenity - Reception | 35 dB                                       |
| Amenity - Lounge    | 38 dB                                       |
| Amenity - Gym       | 42 dB                                       |
| Tower Amenity       | 42 dB                                       |

**Table 5:** Minimum weighted sound reduction index of curtain wall to non-residential rooms

---

**Sound Transmission via slab edge & curtain wall**

Flanking transmission of noise via building elements including any areas of curtain wall must be such that the performance criteria of Section 4 are achieved.

The horizontal and vertical airborne flanking transmission of the façade and associated details, including the slab edge closer detail, when measured in accordance with BS EN ISO 10848-2: 2017 'Acoustics—Laboratory and field measurement of flanking transmission for airborne, impact and building service equipment sound between adjoining rooms, Application to Type B elements when the junction has a small influence' shall be not less than the values given in Table 6.

| Room pairings                | D <sub>n,f,w</sub> |
|------------------------------|--------------------|
| Apartment to Apartment       | 55 dB              |
| Commercial Unit to Apartment | 65 dB              |
| Amenity to Apartment         | 65 dB              |
| All other area to Apartments | 55 dB              |

**Table 6:** Minimum flanking sound insulation of curtain wall

---

### **Wind-generated Noise**

All components of the Unitised Curtain Wall shall be constructed and installed so that the generation and transmission of noise due to wind passing over any part of the system is minimised. No tonal noise shall be generated by any elements of the system due to wind.

### **Rainfall noise**

Noise generated by rainfall onto lightweight elements of the Sub-Contractor's works shall be minimised by the use of suitable damping materials.

### **Miscellaneous noise generation**

The works shall not emit creaking, rattling, whistling and any other noises due to the effects of thermal and structural movement.

### **Laboratory Acoustic Testing Requirements**

Notwithstanding the requirements of Section 1 of this Specification, the Sound Reduction Index of the following elements shall be tested in an UKAS accredited laboratory, or European equivalent, in accordance with BS EN ISO 10140-2: 2021 or BS EN ISO 16283-3: 2016 and rated in accordance with BS EN ISO 717-1: 2020:

1. Tower Non-vision panel with frame
2. Podium insulated panel wall
3. Type A Window with frame

As a minimum, the airborne flanking transmission of the following condition shall be measured in accordance with BS EN ISO 10848-2: 2017 'Acoustics – Laboratory measurement of flanking transmission of airborne and impact sound between adjoining rooms':

1. Curtain wall apartment to apartment: vertical flanking
2. Curtain wall apartment to apartment: horizontal flanking





**simpsonhaugh**

## Port Street, Ancoats – Manchester

VISUAL MOCK-UP ASSESSMENT REPORT | 23 OCTOBER 2023

Z0-SHP-A180-RP-XX-001 | P01



Purpose of the report

THIS DOCUMENT HAS BEEN PREPARED AS A WORKING RECORD OF THE VISUAL INSPECTIONS OF THE SAMPLES AND MOCK-UP PANELS FOR PORT STREET, ANCOATS, MANCHESTER REF132489/FO/2021 (WITH RELEVANT CONDITIONS AS AMENDED BY 135938/NMC/2023), IN ACCORDANCE WITH THE DATES BELOW:

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| 31ST MAY 2023       | HAND SAMPLE REVIEW<br>(REFER TO Z0-SHP-A180-RP-XX-MCC01) |
| 21ST SEPTEMBER 2023 | VMU REVIEW WITH DESIGN TEAM                              |
| 29TH SEPTEMBER 2023 | VMU REVIEW WITH DESIGN TEAM                              |
| 5TH OCTOBER 2023    | VMU REVIEW WITH MANCHESTER CITY COUNCIL                  |

GENERAL NOTES:

THE VMU IS BUILT FOR INSPECTION OF MATERIAL QUALITY ONLY AND IS NOT REFLECTIVE OF THE BUILT DIMENSIONS OF THE FINAL CONSTRUCTION.

FOLLOWING VISUAL INSPECTION OF THE VMU, SHP COMMENTS RELATE TO THE VISUAL APPEARANCE AND CONFIGURATION CRITERIA ONLY. RBL COMMENTS RELATE TO TECHNICAL PERFORMANCES WITH INPUT FROM SPECIALIST SUBCONTRACTORS AND CONSULTANTS.



VMU - TOWER FACADE WITH FINS



VMU - TOWER FACADE WITHOUT FINS





Hand samples - Condition 4A

|                                                         |                              |
|---------------------------------------------------------|------------------------------|
| <b>DATE</b><br>31ST MAY 2023                            |                              |
| <b>LOCATION</b><br>PORT STREET, ANCOATS, MANCHESTER, UK |                              |
| <b>ATTENDEES</b>                                        |                              |
| SIMPSONHAUGH (SHP):                                     | JAMES HIND, PABLO CABREJAS   |
| RENAKER BUILD LTD (RBL):                                | IAN WOODALL                  |
| SELECT PROPERTY GROUP (SPG):                            | TRISTAN HERBERT              |
| MANCHESTER CITY COUNCIL (MCC):                          | DAVE ROSCOE, ANGELA LECKIE   |
| DELOITTE                                                | NIAL ALCOCK, CAMERON RADFORD |

GENERAL COMMENTS

THE ANODISED ALUMINIUM IN OXICOLOR R63 HAND SAMPLE OPPOSITE WAS CHOSEN FOLLOWING THE VISUAL INSPECTION OF HAND SAMPLES EXPLORED FOR PORT STREET - REF132489/FO/2021 (WITH RELEVANT CONDITIONS AS AMENDED BY 135938/NMC/2023) IN ACCORDANCE WITH THE HAND SIZED SAMPLES PROGRAMME 24.11.2022 SUBMITTED TO MCC AS PART OF CONDITION 4A.

THE VISION PANELS (OPPOSITE) WHICH HAVE BEEN REVIEWED INTERNALLY INCLUDE:

- GL-101 TGU VISION GLASS (FACET 1,4)
- GL-102 TGU VISION GLASS (FACET 2,3)

ANODISED ALUMINIUM

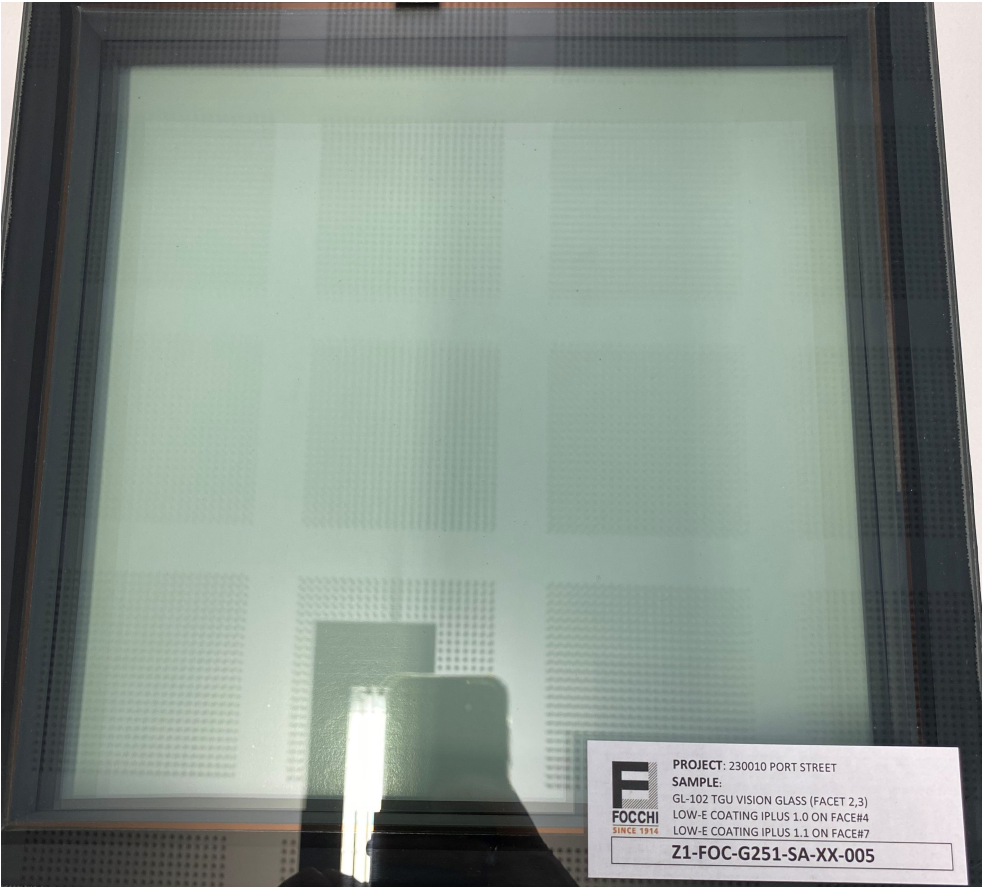
Oxicolor R63 (below)  
Tone and Hue in line with brick and overall design intent. [Selected option](#)



The selection of samples reviewed on site by planners before the final colour was chosen.

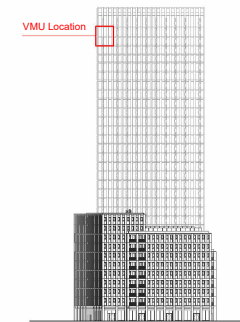
VISION PANEL

The vision panels below were reviewed internally for use in the VMU. There are two different glazing treatments to the vision panels to be visually assessed against the anodised aluminium panels.



FOLLOWING SHP'S DESIGN INTENT, FOCCHI DEVELOPED A SERIES OF CONSTRUCTION DETAILS TO ENSURE THESE VARIOUS DETAILS WOULD BE BUILT FOR INSPECTION.

A SELECTION OF FOCCHI'S CONSTRUCTION DETAILS WILL APPEAR ON THE FOLLOWING PAGES.



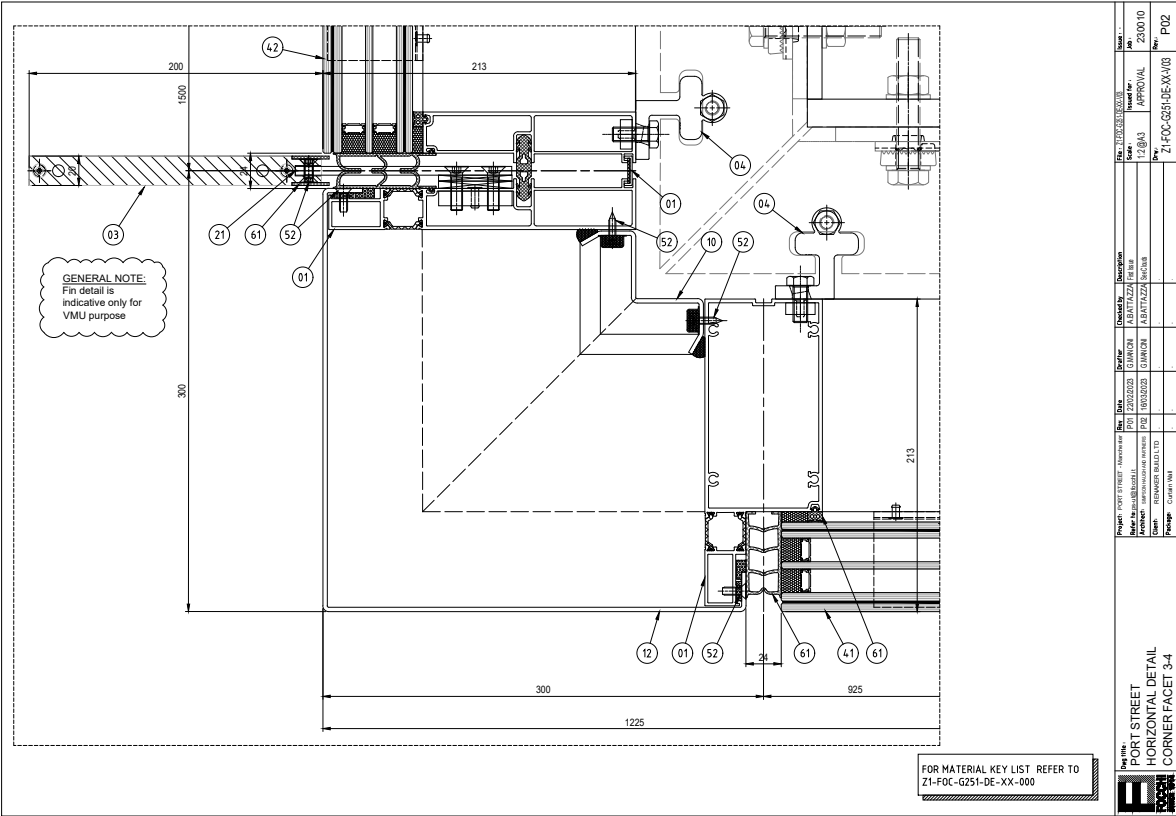
| This drawing is copyright. Do not scale or dimensions. A4 dimensions to be checked on site by contractor.<br><br>Contractor to report any dimensional discrepancies, errors or omissions prior to commencing on site. | <table><tr><th>Rev</th><th>Date</th><th>Description</th></tr><tr><td>P01</td><td>2022-05-31</td><td>THREE TIER</td></tr><tr><td>P02</td><td>2022-11-09</td><td>3 LOCATION AND ANNOTATION UPDATE</td></tr><tr><td>P03</td><td>2022-12-08</td><td>NAME UPDATED</td></tr><tr><td>P04</td><td>2023-04-06</td><td>3 TIER UPDATE</td></tr></table> | Rev                                                                     | Date        | Description | P01 | 2022-05-31 | THREE TIER | P02 | 2022-11-09 | 3 LOCATION AND ANNOTATION UPDATE | P03 | 2022-12-08 | NAME UPDATED | P04 | 2023-04-06 | 3 TIER UPDATE | Project Name<br>Port Street<br>Manchester | Drawing Title<br>Z1 Tower - Facade Visual Mock-up and Performance Mock-up | <br><br>Manchester London<br>+44 (0)161 835 2345 +44 (0)20 7545 4000 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------|-------------|-----|------------|------------|-----|------------|----------------------------------|-----|------------|--------------|-----|------------|---------------|-------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                       | Rev                                                                                                                                                                                                                                                                                                                                          | Date                                                                    | Description |             |     |            |            |     |            |                                  |     |            |              |     |            |               |                                           |                                                                           |                                                                                                                                                           |
| P01                                                                                                                                                                                                                   | 2022-05-31                                                                                                                                                                                                                                                                                                                                   | THREE TIER                                                              |             |             |     |            |            |     |            |                                  |     |            |              |     |            |               |                                           |                                                                           |                                                                                                                                                           |
| P02                                                                                                                                                                                                                   | 2022-11-09                                                                                                                                                                                                                                                                                                                                   | 3 LOCATION AND ANNOTATION UPDATE                                        |             |             |     |            |            |     |            |                                  |     |            |              |     |            |               |                                           |                                                                           |                                                                                                                                                           |
| P03                                                                                                                                                                                                                   | 2022-12-08                                                                                                                                                                                                                                                                                                                                   | NAME UPDATED                                                            |             |             |     |            |            |     |            |                                  |     |            |              |     |            |               |                                           |                                                                           |                                                                                                                                                           |
| P04                                                                                                                                                                                                                   | 2023-04-06                                                                                                                                                                                                                                                                                                                                   | 3 TIER UPDATE                                                           |             |             |     |            |            |     |            |                                  |     |            |              |     |            |               |                                           |                                                                           |                                                                                                                                                           |
| Status<br><br>Design Development                                                                                                                                                                                      | Project No<br>10376<br><br>Scale<br>1:30 @ A3                                                                                                                                                                                                                                                                                                | DRP Drawing Code<br>10376-Z1-SHP-G251-3D-XX-0001<br><br>Revision<br>001 |             |             |     |            |            |     |            |                                  |     |            |              |     |            |               |                                           |                                                                           |                                                                                                                                                           |



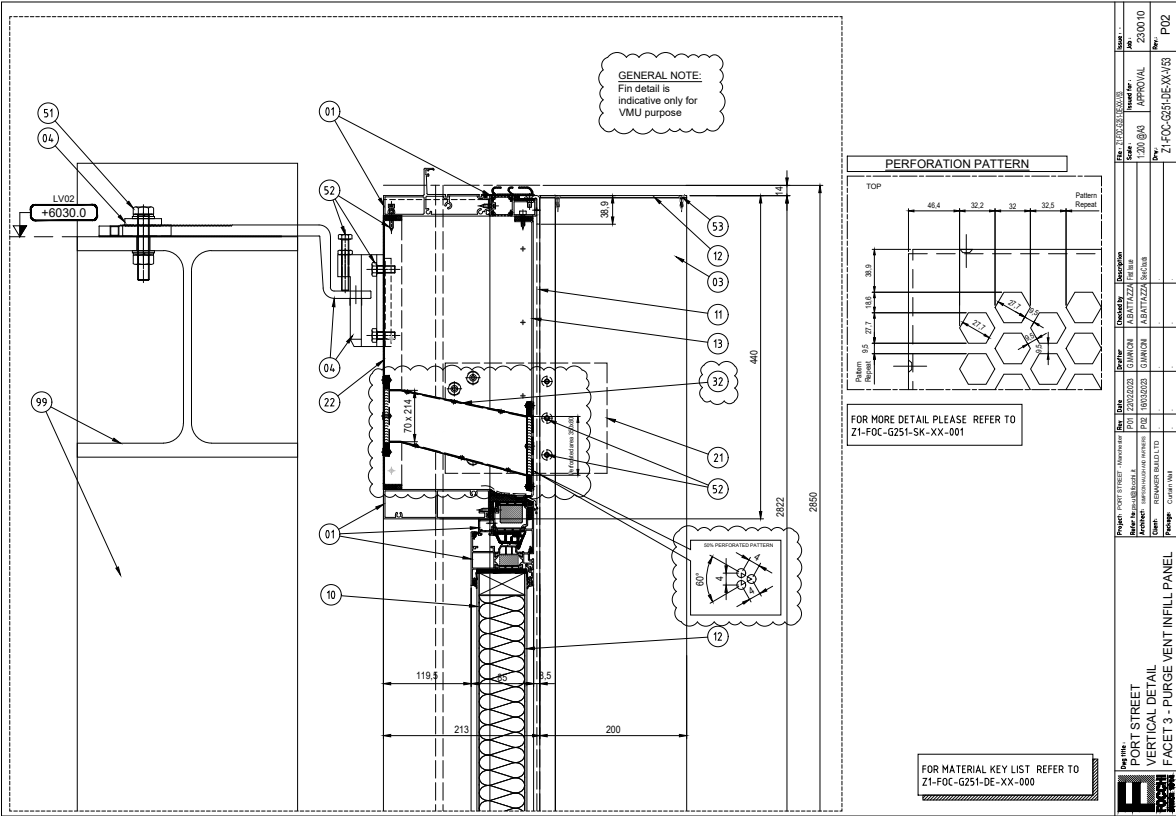




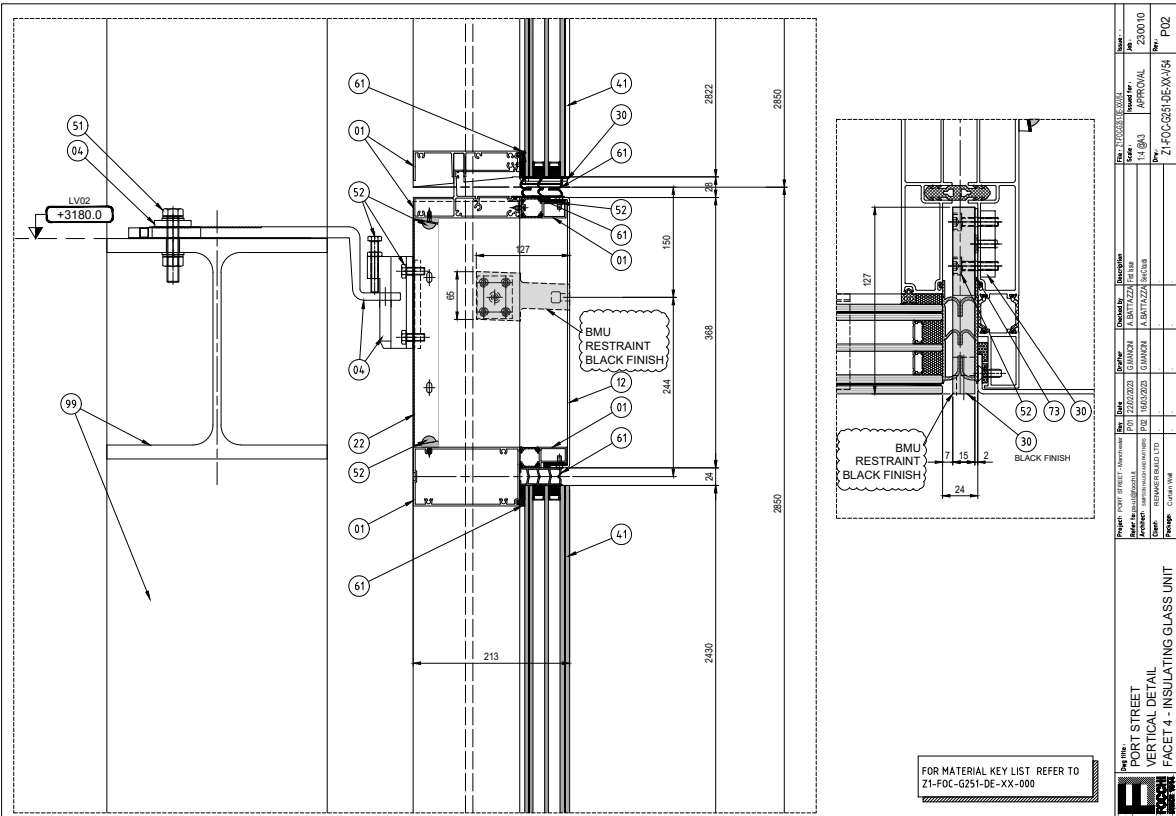
Corner detail



Plenum Detail Rapid Vent



Vision panel



Initial review

DATE

21ST SEPTEMBER 2023

LOCATION

PORT STREET, ANCOATS, MANCHESTER, UK

ATTENDEES

- SIMSPONHAUGH (SHP):

JAMES HIND, CHARLIE WHITE, ALEKSANDER WAGA, HETTIE WELLINGTON
- RENAKER BUILD LTD (RBL):

IAN WOODALL, ISAAC MCNICHOLAS
- SELECT PROPERTY GROUP (SPG):

PHIL RYDER
- FOCCHI (FOC):

ANDREA BATTAZZA ET AL.

GENERAL COMMENTS

THE INITIAL REVIEW OF THE VMU ALLOWED THE DESIGN TEAM TO REVIEW DETAILS AND FINISHES.

THE DESIGN TEAM WERE PLEASED THAT THE VMU MET THE EXPECTATIONS OF THE FACADE DESIGN INTENT.



VISUAL MOCK-UP  
PHOTOGRAPHED 21.09.2023

simpsonhaugh

Presentation to MCC Planning Dept.

DATE

5TH OCTOBER 2023

LOCATION

PORT STREET, ANCOATS, MANCHESTER, UK

ATTENDEES

- SIMSPONHAUGH (SHP):

JAMES HIND, PABLO CABREJAS
- RENAKER BUILD LTD (RBL):

IAN WOODALL, ISAAC MCNICHOLAS
- MANCHESTER CITY COUNCIL (MCC):

DAVE ROSCOE, ANGELA LECKIE
- DELOITTE:

KELLY MCCANN

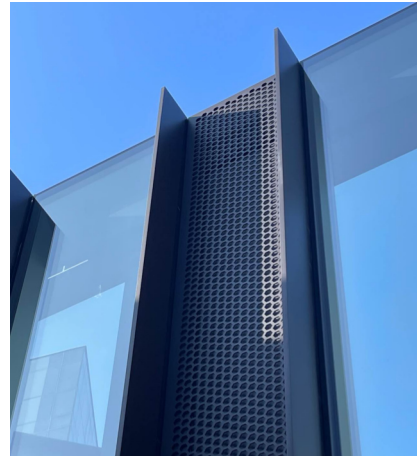
GENERAL COMMENTS

MCC WERE PLEASED WITH THE QUALITY AND OUTCOME OF THE VMU WITH NO ADDITIONAL COMMENTS PERTAINING TO THE MATERIALS, FINISHES OR DETAILS.



VISUAL MOCK-UP  
PHOTOGRAPHED 19.10.2023





**FEATURE FINS (MOCK UP)**  
THE VMU WAS CONSTRUCTED WITH FINS WHICH HAVE BEEN PRODUCED THROUGH A STANDARD 20MM PROFILE DYE. IN THE FINAL BUILT PROPOSAL THE DYE PROFILE OF THE FINS WILL BE 22MM. THE 2MM DIFFERENCE WAS NOT CONSIDERED TO SIGNIFICANTLY AFFECT THE VMU APPEARANCE AS DESIGN INTENT WAS EFFECTIVELY REPRESENTED BY THE VMU.



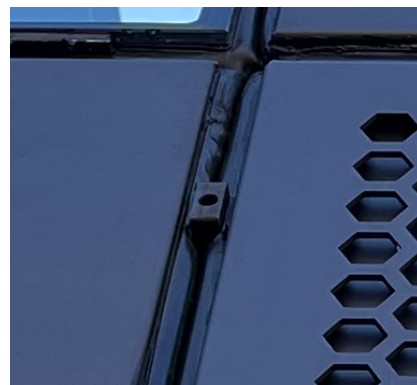
BEFORE: 21.09.2023



AFTER: 05.10.2023

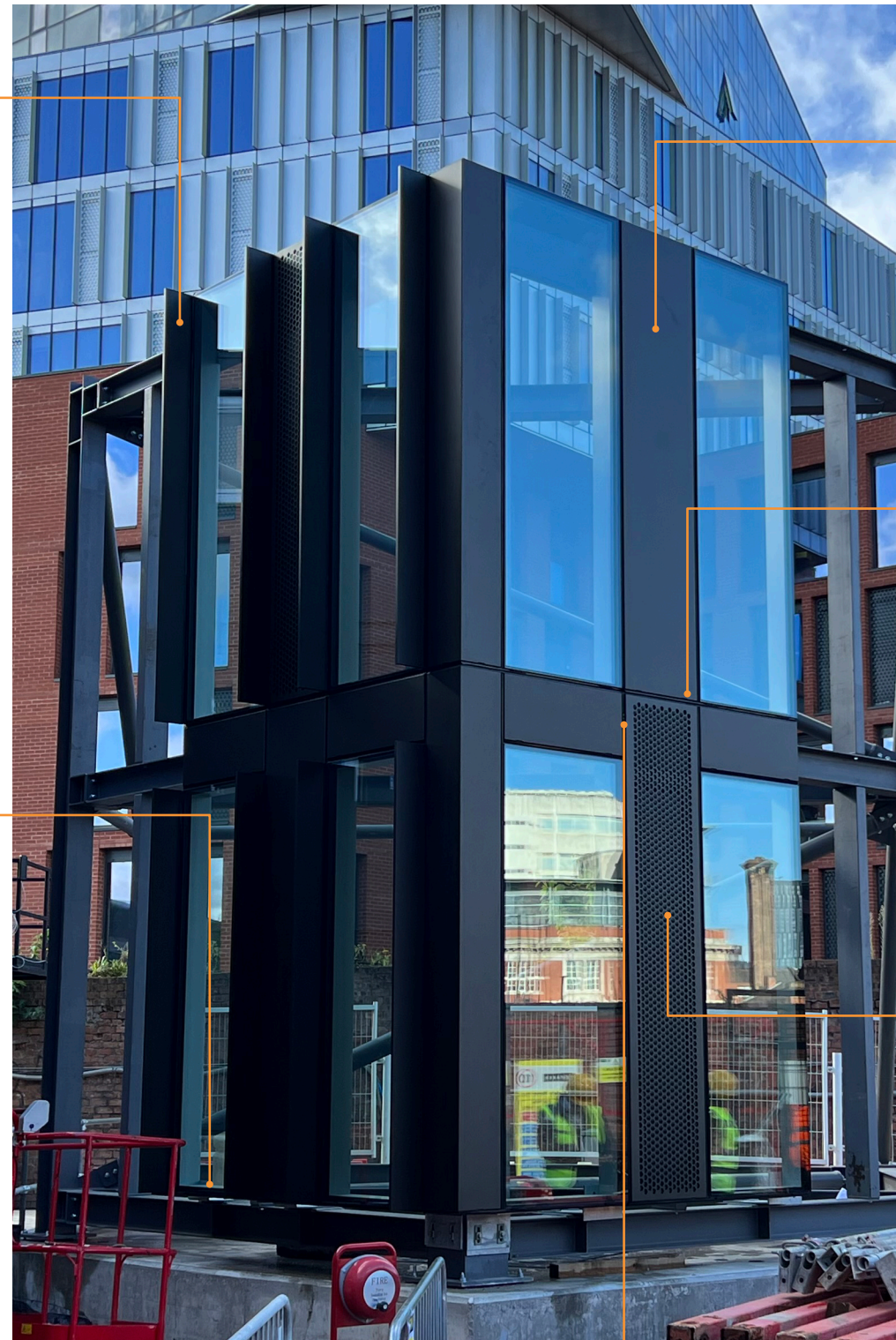
## GLASS DEFECTS RECTIFIED

A CRACK IN ONE OF THE UNITISED GLAZING PANELS WAS DISCOVERED ON THE INITIAL DESIGN TEAM REVIEW OF THE VMU. THIS WAS RECTIFIED BY FOCCHI AND DEMONSTRATES HOW GLAZED PANELS WILL BE MADE GOOD ON SITE DURING FACADE CONSTRUCTION. VISION PANELS WERE REVIEWED AND ACCEPTED BY DESIGN TEAM AND PLANNERS.



## BMU SOCKET

THE COLOUR OF THE BMU SOCKET LOCATED ON THE JOINT LINES BETWEEN THE PANELS MATCHES THE PANEL COLOUR WHICH EFFECTIVELY CONCEALS THE DETAIL.



## ANODISED ALUMINIUM

THE ANODISED ALUMINIUM PANELS IN OXICOLOR R63 WERE ACCEPTED AS MATCHING THE DESIGN INTENT. THE WARM BROWN TONE AND HUE CHOSEN TO MATCH THE GIVEN BRICKS WAS ACHIEVED AND APPROVED BY THE DESIGN TEAM.



## WEEP HOLES

WEEP HOLES IN THE ANODISED ALUMINIUM PANELS WERE ACCEPTABLE AS PER DESIGN INTENT

## RAPID VENT DESIGN

THE RAPID VENT PANEL MATCHED THE DESIGN INTENT AND A NEAT BORDER SURROUNDING THE PERFORATIONS WAS ACHIEVED EFFECTIVELY. THE TRANSOM WAS NOT CONSIDERED TO NEGATIVELY AFFECT THE FACADE LANGUAGE, WHICH WHEN VIEWED OBLIQUELY OR FROM A DISTANCE BECAME VISIBLY NEGLIGIBLE.







Hand samples - Condition 4A

DATE  
31ST MAY 2023

LOCATION  
PORT STREET, ANCOATS, MANCHESTER, UK

|                                |                              |
|--------------------------------|------------------------------|
| ATTENDEES                      |                              |
| SIMPONHAUGH (SHP):             | JAMES HIND, PABLO CABREJAS   |
| RENAKER BUILD LTD (RBL):       | IAN WOODALL                  |
| SELECT PROPERTY GROUP (SPG):   | TRISTAN HERBERT              |
| MANCHESTER CITY COUNCIL (MCC): | DAVE ROSCOE, ANGELA LECKIE   |
| DELOITTE                       | NIAL ALCOCK, CAMERON RADFORD |

GENERAL COMMENTS

THE HAND SAMPLES OPPOSITE WERE CHOSEN FOLLOWING THE VISUAL INSPECTION OF HAND SAMPLES EXPLORED FOR PORT STREET - REF132489/FO/2021 (WITH RELEVANT CONDITIONS AS AMENDED BY 135938/NMC/2023) IN ACCORDANCE WITH THE HAND SIZED SAMPLES PROGRAMME 24.11.2022 SUBMITTED TO MCC AS PART OF CONDITION 4A.

THE BROWN BRICKWORK HAS BEEN BUILT IN STRETCHER BOND USING CREST BUCKINGHAM MULTI BRICK AND A BROWN COLOURED MORTAR WHICH WAS SELECTED TO MATCH THE BRICK. THE POINTING WILL BE 2MM RECESSED.

THE WHITE BRICKWORK HAS BEEN BUILT IN A STRETCHER BOND USING MICHELMERSH PORCELAIN WHITE SMOOTH BRICK AND A WHITE COLOURED MORTAR WHICH HAS BEEN SELECTED TO MATCH THE BRICK. THE POINTING WILL BE 2MM RECESSED.

MORTAR COLOUR AND POINTING

Dark brown mortar - 2 mm recess . Colour matches brick tone. Pointing keeps a clean edge in an otherwise rough brick texture. [Selected option](#)

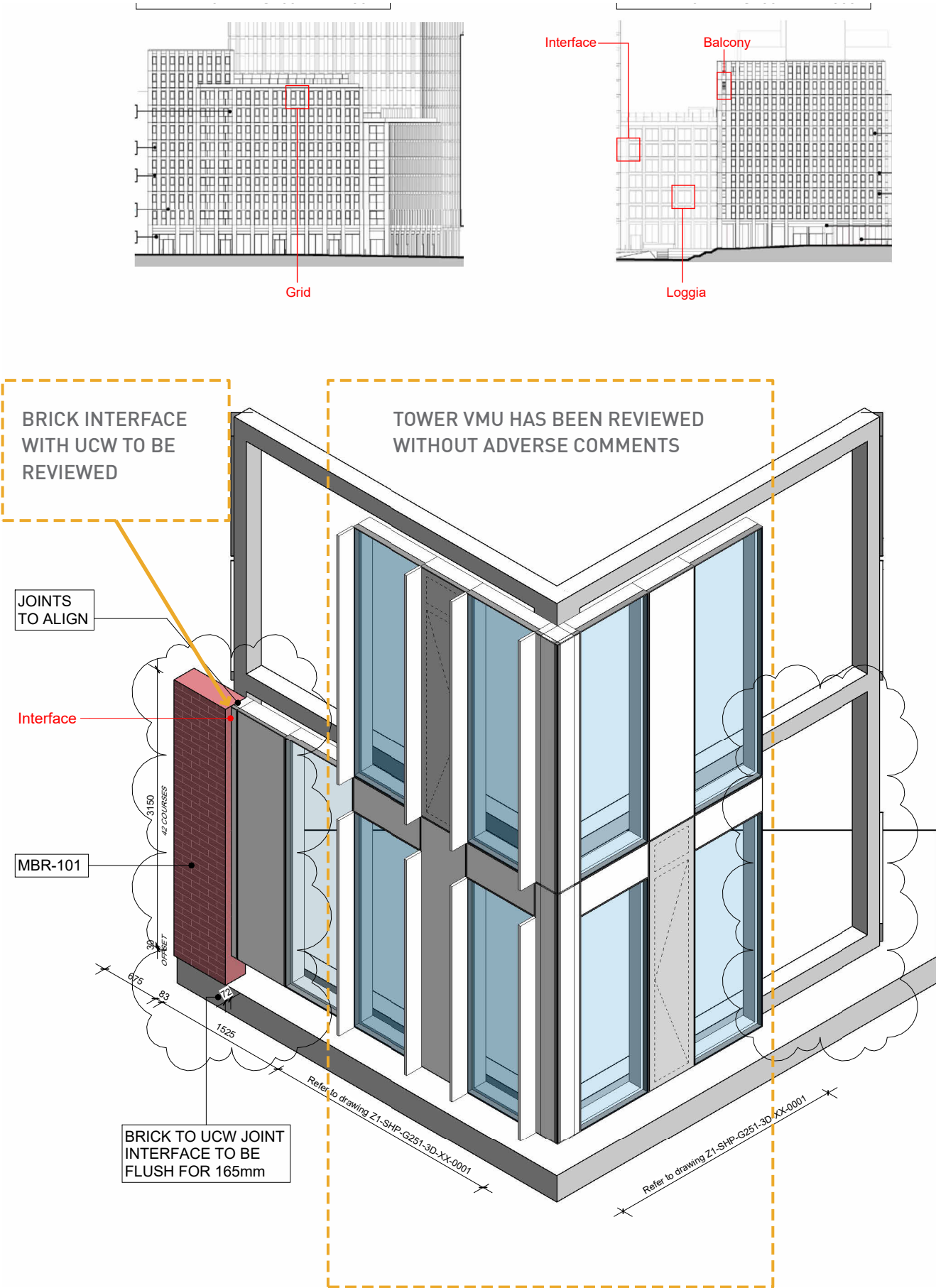
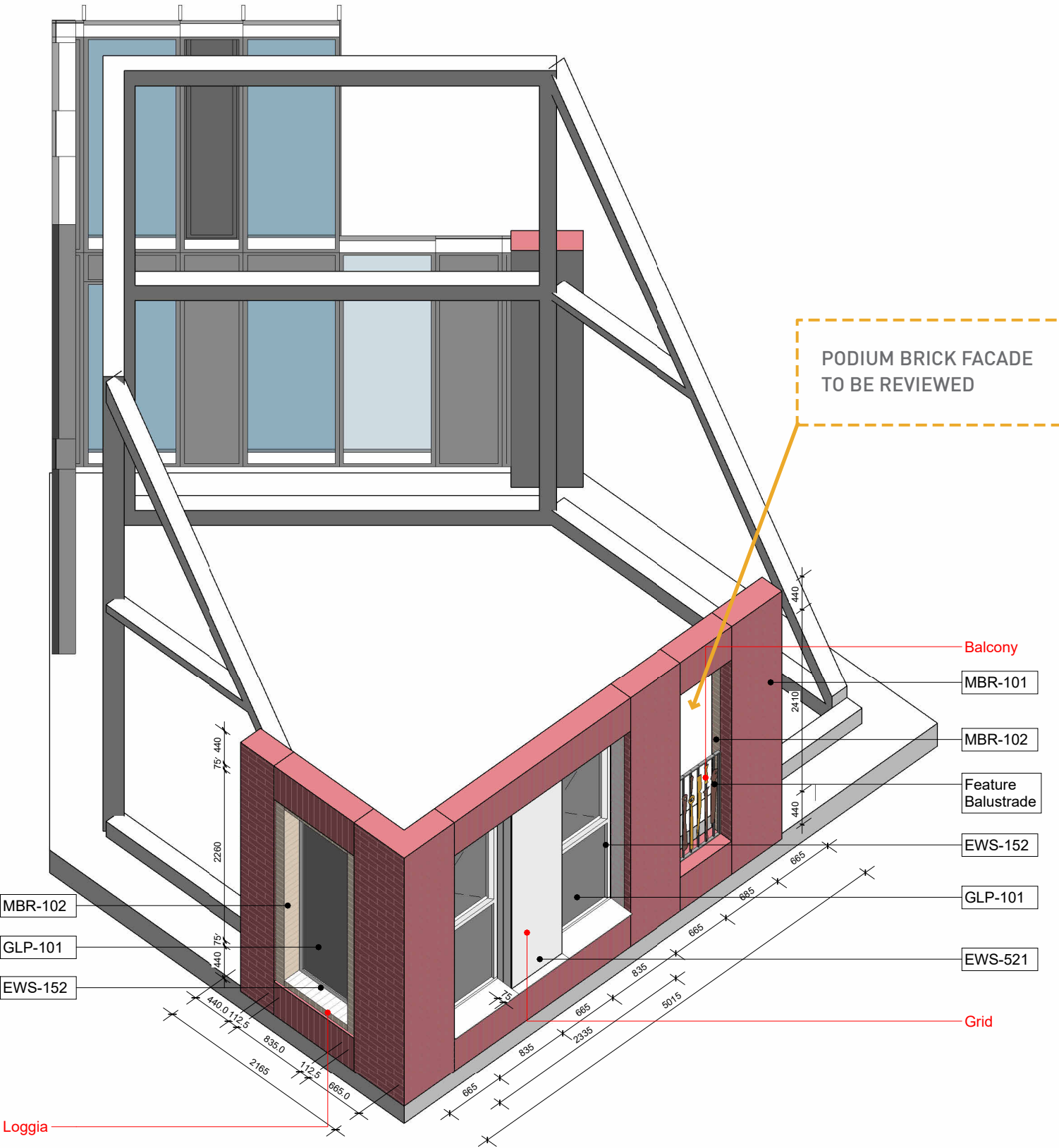


White mortar- 2 mm recess - Pointing highlights brick sharp finish. Colour matches with brick tone. [Selected option](#)





VMU - Podium Facade Mock-Up





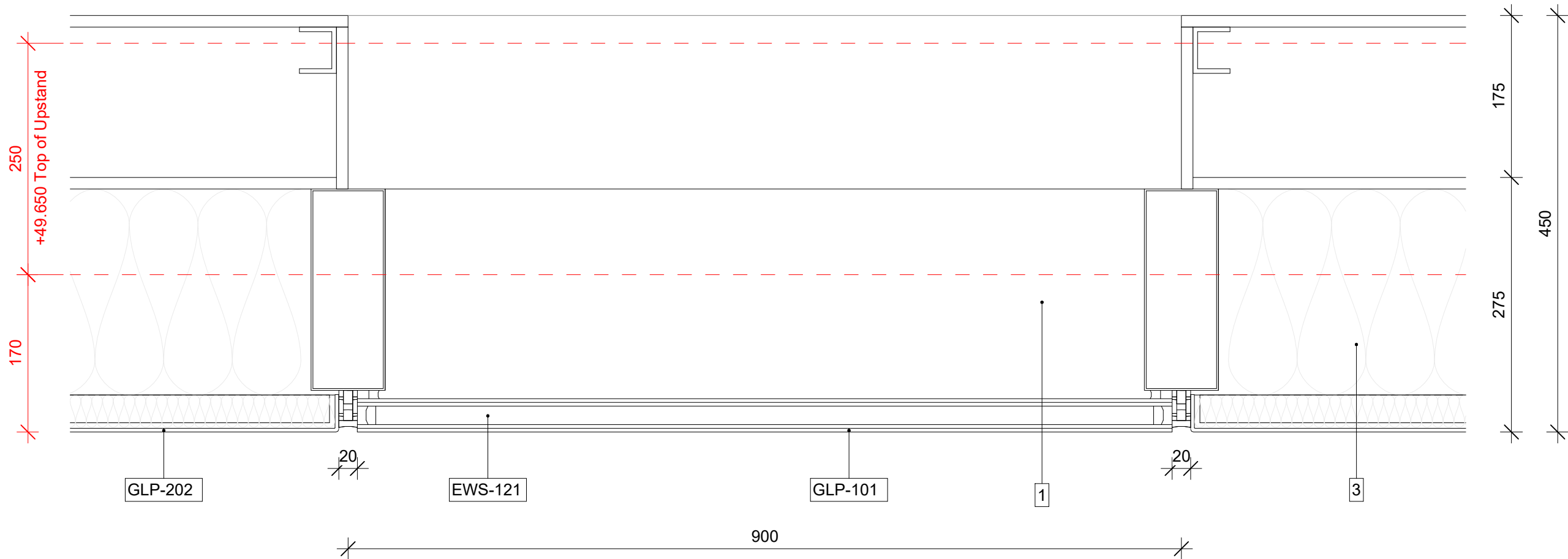
## RENAKER

|                                                                                                                      |                 |                       |                             |
|----------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|-----------------------------|
| <div>STATUS     Ian Woodall</div> <div>DRAWN BY     Andy Whittaker</div> <div>PRINTED     20/09/2023; 15:06:21</div> | PROJECT TITLE   | Port Street           |                             |
|                                                                                                                      | PROGRAMME TITLE | Planning Condition 4A |                             |
|                                                                                                                      | FILTER TITLE    |                       |                             |
|                                                                                                                      | PROGRAMME NUM   | RBL_PORT_CON_01       |                             |
|                                                                                                                      | REVISION NUM    | 01                    | REVISION DATE    30/08/2023 |
|                                                                                                                      | SOURCE FILE     |                       |                             |

Renaker , NQ BUilding, 47 Bengal Street, Ancoats, Manchester

Page 1 of 1

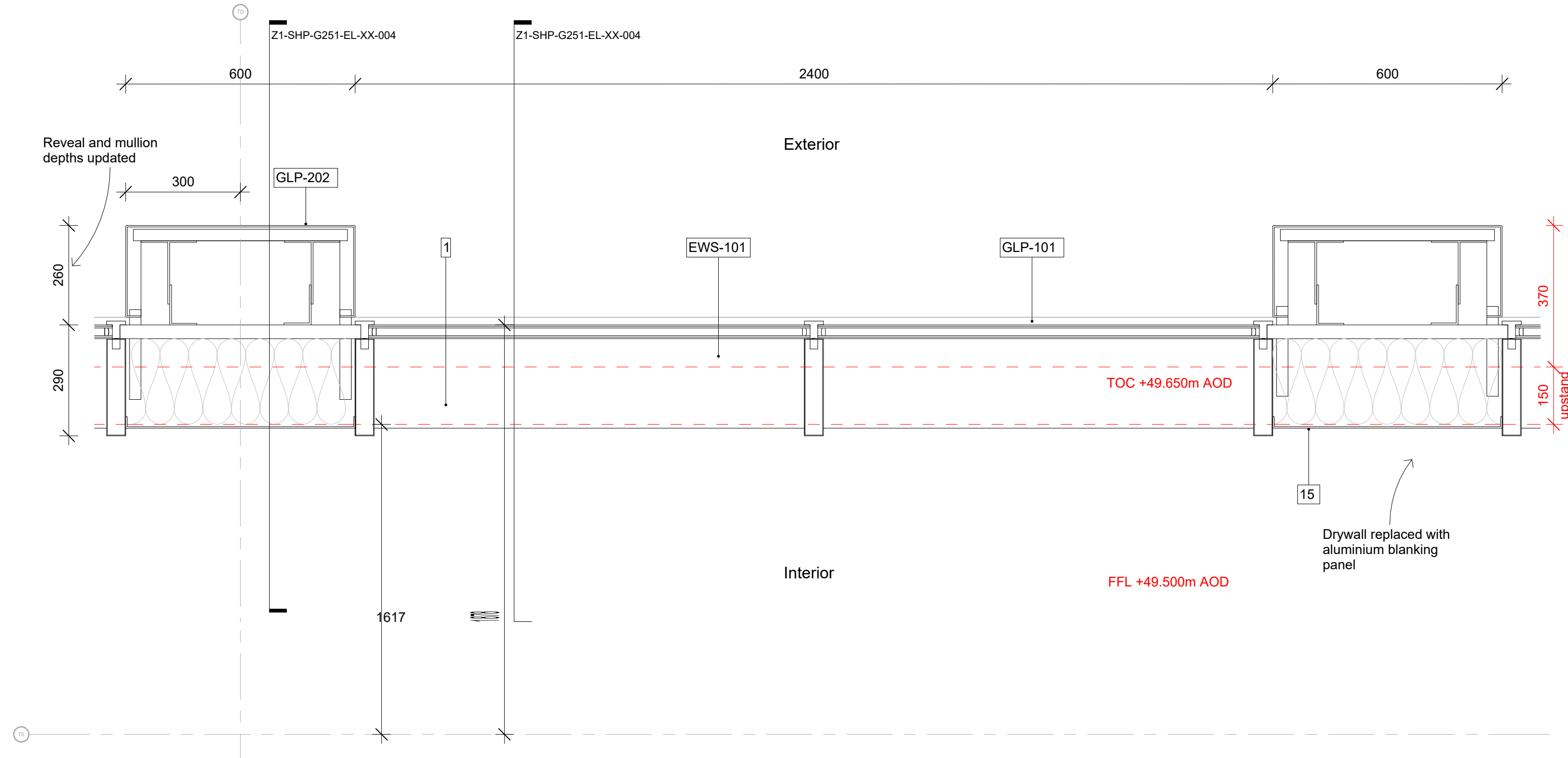


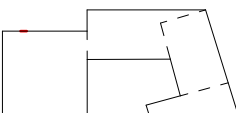


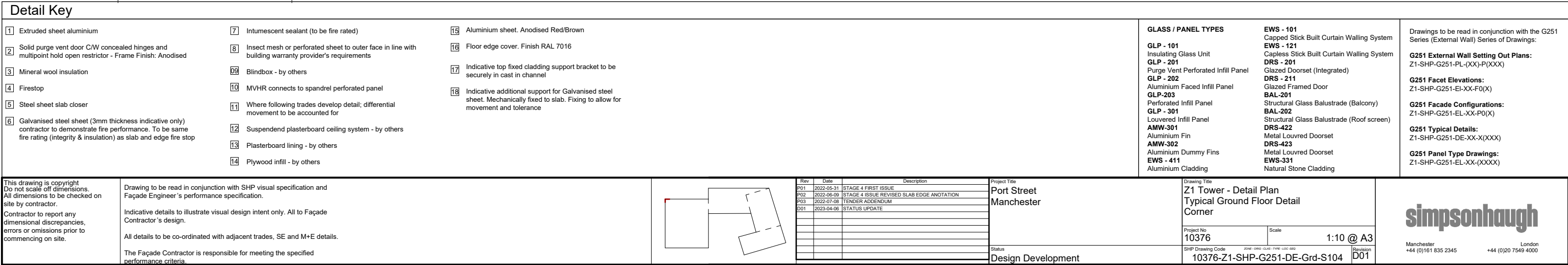
| Detail Key                                                                                                                                                                                               |  |                                                                                                                             |  |                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <div><div>1</div>Extruded sheet aluminium</div>                                                                                                                                                          |  | <div><div>7</div>Intumescent sealant (to be fire rated)</div>                                                               |  | <div><div>15</div>Aluminium sheet. Anodised Red/Brown</div>                                                                                              |  | <div>GLASS / PANEL TYPES</div> <div><div>GLP - 101</div>Insulating Glass Unit</div> <div><div>GLP - 201</div>Purge Vent Perforated Infill Panel</div> <div><div>GLP - 202</div>Aluminium Faced Infill Panel</div> <div><div>GLP-203</div>Perforated Infill Panel</div> <div><div>GLP - 301</div>Louvered Infill Panel</div> <div><div>AMW-301</div>Aluminium Fin</div> <div><div>AMW-302</div>Aluminium Dummy Fins</div> <div><div>EWS - 411</div>Aluminium Cladding</div> <div><div>EWS - 101</div>Capped Stick Built Curtain Walling System</div> <div><div>EWS - 121</div>Capless Stick Built Curtain Walling System</div> <div><div>DRS - 201</div>Glazed Doorset (Integrated)</div> <div><div>DRS - 211</div>Glazed Framed Door</div> <div><div>BAL-201</div>Structural Glass Balustrade (Balcony)</div> <div><div>BAL-202</div>Structural Glass Balustrade (Roof screen)</div> <div><div>DRS-422</div>Metal Louvred Doorset</div> <div><div>DRS-423</div>Metal Louvred Doorset</div> <div><div>EWS-331</div>Natural Stone Cladding</div> |  | <div>Drawings to be read in conjunction with the G251 Series (External Wall) Series of Drawings:</div> <div><div>G251 External Wall Setting Out Plans:</div>Z1-SHP-G251-PL-(XX)-P(XXX)</div> <div><div>G251 Facet Elevations:</div>Z1-SHP-G251-EL-XX-F0(X)</div> <div><div>G251 Facade Configurations:</div>Z1-SHP-G251-EL-XX-P0(X)</div> <div><div>G251 Typical Details:</div>Z1-SHP-G251-DE-XX-X(XXX)</div> <div><div>G251 Panel Type Drawings:</div>Z1-SHP-G251-EL-XX-(XXXX)</div> |  |
| <div><div>2</div>Solid purge vent door C/W concealed hinges and multipoint hold open restrictor - Frame Finish: Anodised</div>                                                                           |  | <div><div>8</div>Insect mesh or perforated sheet to outer face in line with building warranty provider's requirements</div> |  | <div><div>16</div>Floor edge cover. Finish RAL 7016</div>                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <div><div>3</div>Mineral wool insulation</div>                                                                                                                                                           |  | <div><div>09</div>Blindbox - by others</div>                                                                                |  | <div><div>17</div>Indicative top fixed cladding support bracket to be securely in cast in channel</div>                                                  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <div><div>4</div>Firestop</div>                                                                                                                                                                          |  | <div><div>10</div>MVHR connects to spandrel perforated panel</div>                                                          |  | <div><div>18</div>Indicative additional support for Galvanised steel sheet. Mechanically fixed to slab. Fixing to allow for movement and tolerance</div> |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <div><div>5</div>Steel sheet slab closer</div>                                                                                                                                                           |  | <div><div>11</div>Where following trades develop detail; differential movement to be accounted for</div>                    |  |                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <div><div>6</div>Galvanised steel sheet (3mm thickness indicative only) contractor to demonstrate fire performance. To be same fire rating (integrity &amp; insulation) as slab and edge fire stop</div> |  | <div><div>12</div>Suspendend plasterboard ceiling system - by others</div>                                                  |  |                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|                                                                                                                                                                                                          |  | <div><div>13</div>Plasterboard lining - by others</div>                                                                     |  |                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|                                                                                                                                                                                                          |  | <div><div>14</div>Plywood infill - by others</div>                                                                          |  |                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |

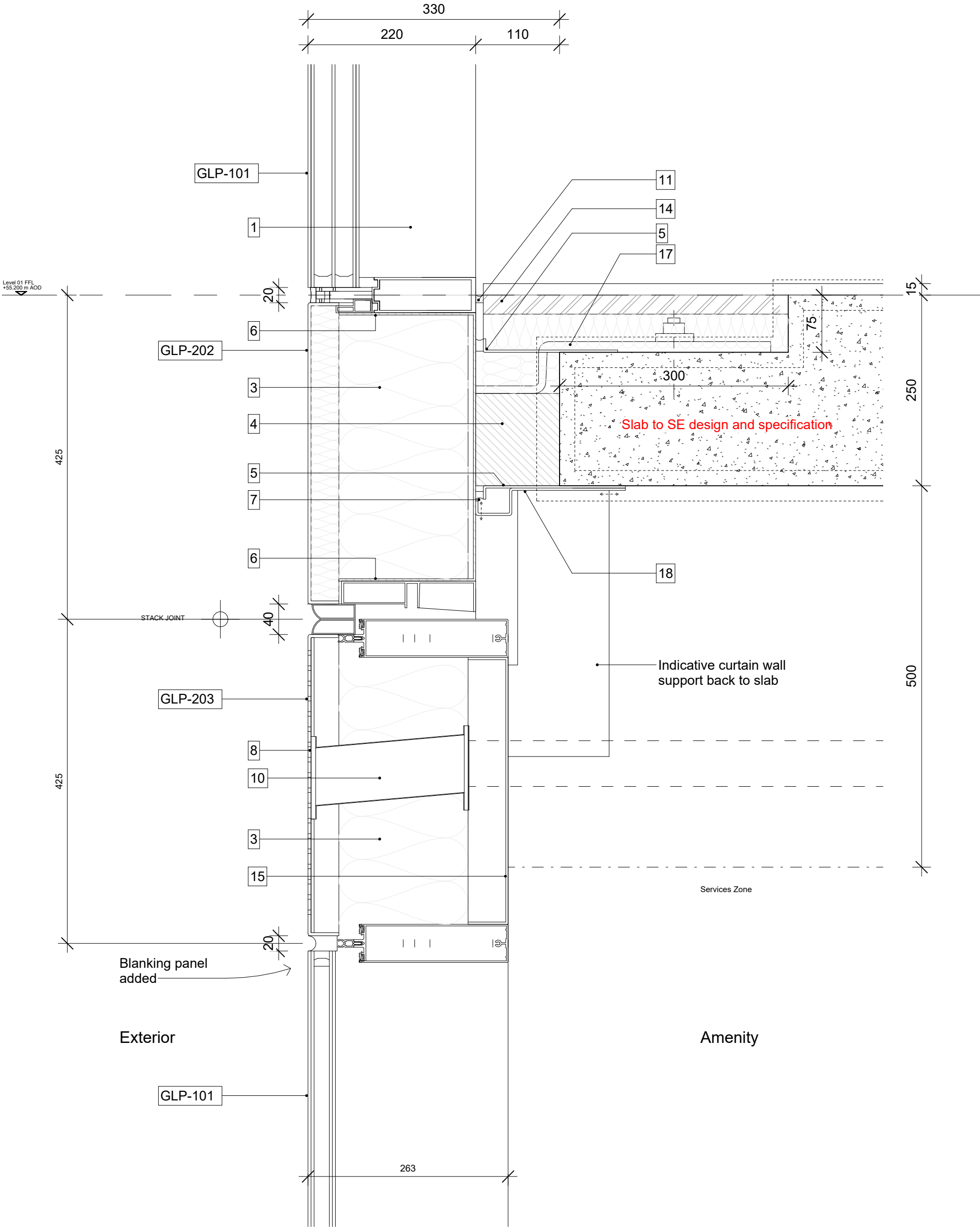
|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                           |                                                                |                                                                                                  |                                        |                                        |                                                                      |                                    |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------------------------------------|------------------------------------|--|--|
| <div>This drawing is copyright<br/>Do not scale off dimensions.<br/>All dimensions to be checked on site by contractor.<br/>Contractor to report any dimensional discrepancies, errors or omissions prior to commencing on site.</div> | <div>Drawing to be read in conjunction with SHP visual specification and Façade Engineer's performance specification.</div> <div>Indicative details to illustrate visual design intent only. All to Façade Contractor's design.</div> <div>All details to be co-ordinated with adjacent trades, SE and M+E details.</div> <div>The Façade Contractor is responsible for meeting the specified performance criteria.</div> |  | <div>Rev</div> <div>Date</div> <div>Description</div>                                     | <div>Project Title</div> <div>Port Street<br/>Manchester</div> | <div>Drawing Title</div> <div>Z1 Tower - Detail Plan<br/>Typical Ground Floor Detail Flush</div> | <div>Project No</div> <div>10376</div> | <div>Scale</div> <div>1 : 5 @ A3</div> | <div>SHP Drawing Code</div> <div>10376-Z1-SHP-G251-DE-Grd-S101</div> | <div>Revision</div> <div>D01</div> |  |  |
|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <div>P01</div> <div>2022-05-31</div> <div>STAGE 4 FIRST ISSUE</div>                       |                                                                |                                                                                                  |                                        |                                        |                                                                      |                                    |  |  |
|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <div>P02</div> <div>2022-06-09</div> <div>STAGE 4 ISSUE REVISED SLAB EDGE ANOTATION</div> |                                                                |                                                                                                  |                                        |                                        |                                                                      |                                    |  |  |
|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <div>P03</div> <div>2022-07-08</div> <div>TENDER ADDENDUM</div>                           |                                                                |                                                                                                  |                                        |                                        |                                                                      |                                    |  |  |
|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <div>D01</div> <div>2023-04-06</div> <div>STATUS UPDATE</div>                             |                                                                |                                                                                                  |                                        |                                        |                                                                      |                                    |  |  |
|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                           |                                                                |                                                                                                  |                                        |                                        |                                                                      |                                    |  |  |
|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                           |                                                                |                                                                                                  |                                        |                                        |                                                                      |                                    |  |  |
|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                           |                                                                |                                                                                                  |                                        |                                        |                                                                      |                                    |  |  |
|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                           |                                                                |                                                                                                  |                                        |                                        |                                                                      |                                    |  |  |
|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                           |                                                                |                                                                                                  |                                        |                                        |                                                                      |                                    |  |  |
|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                           |                                                                |                                                                                                  |                                        |                                        |                                                                      |                                    |  |  |
| <div><div></div><div>Manchester<br/>+44 (0)161 835 2345</div><div>London<br/>+44 (0)20 7549 4000</div></div>                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                           |                                                                |                                                                                                  |                                        |                                        |                                                                      |                                    |  |  |





| Detail Key                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                      |                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <div>1</div> Extruded sheet aluminium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <div>7</div> Intumescent sealant (to be fire rated)                                                               | <div>15</div> Aluminium sheet. Anodised Red/Brown                                                                                                                                                                                                         | <div>GLASS / PANEL TYPES</div> <div>GLP - 101<br/>Insulating Glass Unit</div> <div>GLP - 201<br/>Purge Vent Perforated Infill Panel</div> <div>GLP - 202<br/>Aluminium Faced Infill Panel</div> <div>GLP-203<br/>Perforated Infill Panel</div> <div>GLP - 301<br/>Louvered Infill Panel</div> <div>AMW-301<br/>Aluminium Fin</div> <div>AMW-302<br/>Aluminium Dummy Fins</div> <div>EWS - 411<br/>Aluminium Cladding</div> <div>EWS - 101<br/>Capped Stick Built Curtain Walling System</div> <div>EWS - 121<br/>Capless Stick Built Curtain Walling System</div> <div>DRS - 201<br/>Glazed Doorset (Integrated)</div> <div>DRS - 211<br/>Glazed Framed Door</div> <div>BAL-201<br/>Structural Glass Balustrade (Balcony)</div> <div>BAL-202<br/>Structural Glass Balustrade (Roof screen)</div> <div>DRS-422<br/>Metal Louvred Doorset</div> <div>DRS-423<br/>Metal Louvred Doorset</div> <div>EWS-331<br/>Natural Stone Cladding</div> |                                                                      |                                                                                                     |  | <div>Drawings to be read in conjunction with the G251 Series (External Wall) Series of Drawings:</div> <div>G251 External Wall Setting Out Plans:<br/>Z1-SHP-G251-PL-(XX)-P(XXX)</div> <div>G251 Facet Elevations:<br/>Z1-SHP-G251-EL-XX-F0(X)</div> <div>G251 Facade Configurations:<br/>Z1-SHP-G251-EL-XX-P0(X)</div> <div>G251 Typical Details:<br/>Z1-SHP-G251-DE-XX-X(XXX)</div> <div>G251 Panel Type Drawings:<br/>Z1-SHP-G251-EL-XX-(XXX)</div> |  |  |
| <div>2</div> Solid purge vent door C/W concealed hinges and multipoint hold open restrictor - Frame Finish: Anodised                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <div>8</div> Insect mesh or perforated sheet to outer face in line with building warranty provider's requirements | <div>16</div> Floor edge cover. Finish RAL 7016                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                      |                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| <div>3</div> Mineral wool insulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <div>9</div> Blindbox - by others                                                                                 | <div>17</div> Indicative top fixed cladding support bracket to be securely in cast in channel                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                      |                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| <div>4</div> Firestop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <div>10</div> MVHR connects to spandrel perforated panel                                                          | <div>18</div> Indicative additional support for Galvanised steel sheet. Mechanically fixed to slab. Fixing to allow for movement and tolerance                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                      |                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| <div>5</div> Steel sheet slab closer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <div>11</div> Where following trades develop detail; differential movement to be accounted for                    |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                      |                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| <div>6</div> Galvanised steel sheet (3mm thickness indicative only) contractor to demonstrate fire performance. To be same fire rating (integrity & insulation) as slab and edge fire stop                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <div>12</div> Suspended plasterboard ceiling system - by others                                                   |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                      |                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <div>13</div> Plasterboard lining - by others                                                                     |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                      |                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <div>14</div> Plywood infill - by others                                                                          |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                      |                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| <div>This drawing is copyright<br/>Do not scale off dimensions.<br/>All dimensions to be checked on site by contractor.<br/>Contractor to report any dimensional discrepancies, errors or omissions prior to commencing on site.</div> <div>Drawing to be read in conjunction with SHP visual specification and Façade Engineer's performance specification.</div> <div>Indicative details to illustrate visual design intent only. All to Façade Contractor's design.</div> <div>All details to be co-ordinated with adjacent trades, SE and M+E details.</div> <div>The Façade Contractor is responsible for meeting the specified performance criteria.</div> | <div></div>                  | <div>Rev</div> <div>Date</div> <div>Description</div> <div>P01 2022-05-31 STAGE 4 FIRST ISSUE</div> <div>P02 2022-06-09 STAGE 4 ISSUE REVISED SLAB EDGE ANOTATION</div> <div>P03 2022-07-08 TENDER ADDENDUM</div> <div>D01 2023-04-06 STATUS UPDATE</div> | <div>Project Title</div> <div>Port Street<br/>Manchester</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                      | <div>Drawing Title</div> <div>Z1 Tower - Detail Plan<br/>Typical Ground Floor Detail Recessed</div> |  | <div></div> <div>Manchester<br/>+44 (0)161 835 2345</div> <div>London<br/>+44 (0)20 7549 4000</div>                                                                                                                                                                                                                                                               |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                   | <div>Status</div> <div>Design Development</div>                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <div>Project No</div> <div>10376</div>                               | <div>Scale</div> <div>1:10 @ A3</div>                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <div>SHP Drawing Code</div> <div>10376-Z1-SHP-G251-DE-Grd-S102</div> | <div>Revision</div> <div>D01</div>                                                                  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                   |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                      |                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |





| Detail Key                                                                                                                                                                      |                                                                                     |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
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| 1 Extruded sheet aluminium                                                                                                                                                      | 9 Blindbox - by others                                                              | 17 Indicative top fixed cladding support bracket to be securely in cast in channel                                                  | <b>GLASS / PANEL TYPES</b><br><br>GLP - 101 Insulating Glass Unit<br>GLP - 201 Purge Vent Perforated Infill Panel<br>GLP - 202 Aluminium Faced Infill Panel<br>GLP-203 Perforated Infill Panel<br>GLP - 301 Louvered Infill Panel<br>AMW-301 Aluminium Fin<br>AMW-302 Aluminium Dummy Fins<br>EWS - 411 Aluminium Cladding | <b>EWS - 101</b> Capped Stick Built Curtain Walling System<br><b>EWS - 121</b> Capless Stick Built Curtain Walling System<br><b>DRS - 201</b> Glazed Doorset (Integrated)<br><b>DRS - 211</b> Glazed Framed Door<br><b>BAL-201</b> Structural Glass Balustrade (Balcony)<br><b>BAL-202</b> Structural Glass Balustrade (Roof screen)<br><b>DRS-422</b> Metal Louvred Doorset<br><b>DRS-423</b> Metal Louvred Doorset<br><b>EWS-331</b> Natural Stone Cladding | Drawings to be read in conjunction with the G251 Series (External Wall) Series of Drawings:<br><br><b>G251 External Wall Setting Out Plans:</b><br>Z1-SHP-G251-PL-(XX)-P(XXX)<br><br><b>G251 Facet Elevations:</b><br>Z1-SHP-G251-EL-XX-F0(X)<br><br><b>G251 Facade Configurations:</b><br>Z1-SHP-G251-EL-XX-P0(X)<br><br><b>G251 Typical Details:</b><br>Z1-SHP-G251-DE-XX-X(XXX)<br><br><b>G251 Panel Type Drawings:</b><br>Z1-SHP-G251-EL-XX-(XXXX) | Drawing to be read in conjunction with SHP visual specification and Façade Engineer 's performance specification.<br><br>Indicative details to illustrate visual design intent only. All to Façade Contractor 's design.<br><br>All details to be co-ordinated with adjacent trades, SE and M+E details.<br><br>The Façade Contractor is responsible for meeting the specified performance criteria. |
| 2 Solid purge vent door C/W concealed hinges and multipoint hold open restrictor - Frame Finish: Anodised                                                                       | 10 MVHR connects to spandrel perforated panel                                       | 18 Indicative additional support for Galvanised steel sheet. Mechanically fixed to slab. Fixing to allow for movement and tolerance |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3 Mineral wool insulation                                                                                                                                                       | 11 Where following trades develop detail; differential movement to be accounted for |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4 Firestop                                                                                                                                                                      | 12 Suspendend plasterboard ceiling system                                           |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5 Steel sheet slab closer                                                                                                                                                       | 13 Plasterboard lining                                                              |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6 Galvanised steel sheet (3mm thickness indicative only) contractor to demonstrate fire performance. To be same fire rating (integrity & insulation) as slab and edge fire stop | 14 Plywood infill - by others                                                       |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 7 Intumescent sealant (to be fire rated)                                                                                                                                        | 15 Aluminium sheet. Anodised Red/Brown                                              |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 8 Insect mesh or perforated sheet to outer face in line with building warranty provider's requirements                                                                          | 16 Floor edge cover. Finish RAL 7016                                                |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |

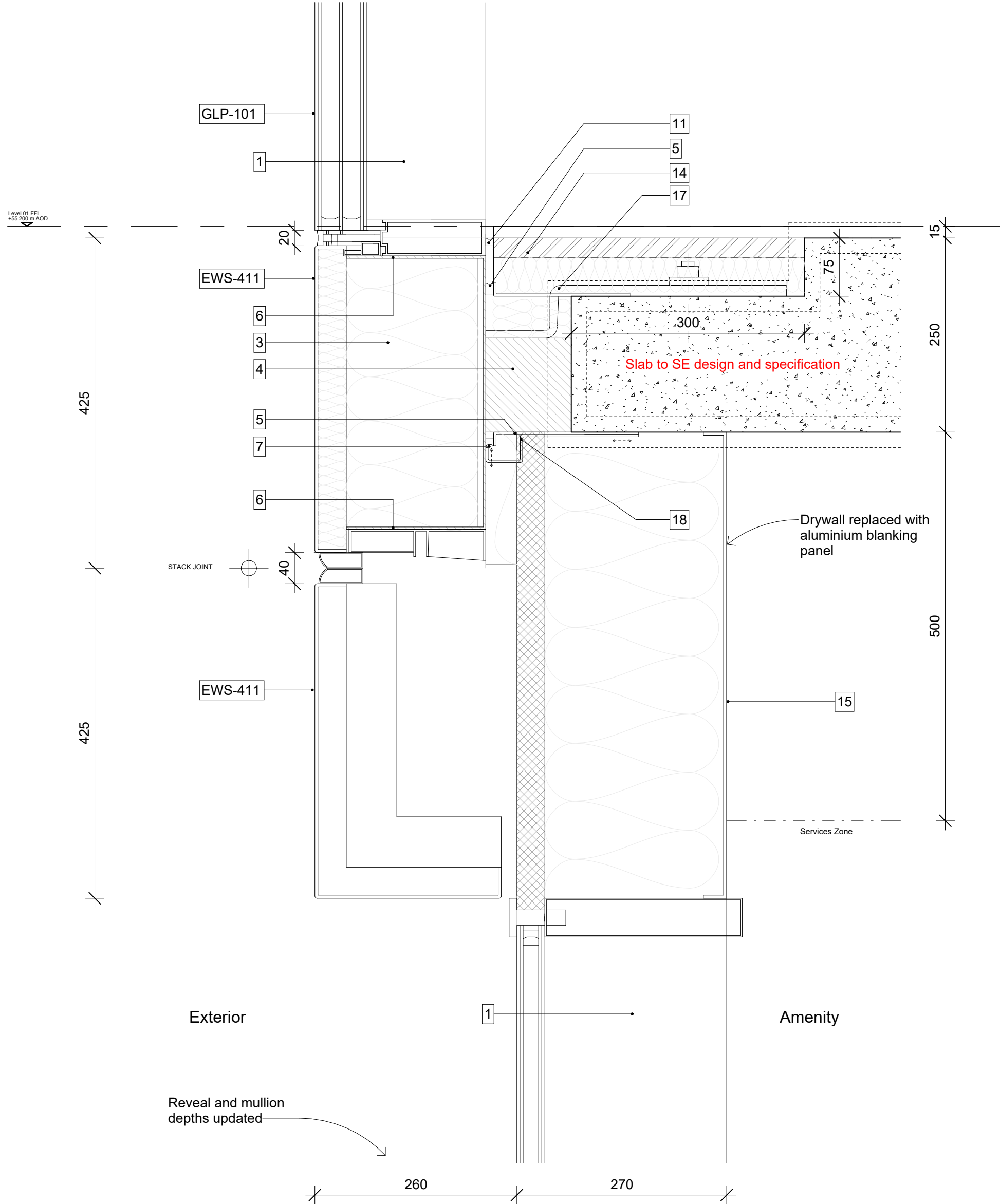
| <p>This drawing is copyright<br/>Do not scale off dimensions.<br/>All dimensions to be checked on<br/>site by contractor.</p> <p>Contractor to report any<br/>dimensional discrepancies,<br/>errors or omissions prior to<br/>commencing on site.</p> | <table><tr><th>Rev</th><th>Date</th><th>Description</th></tr><tr><td>P01</td><td>2022-05-31</td><td>STAGE 4 ISSUE</td></tr><tr><td>P02</td><td>2022-06-09</td><td>STAGE 4 ISSUE REVISED SLAB EDGE ANOTATION</td></tr><tr><td>P03</td><td>2022-07-08</td><td>TENDER ADDENDUM</td></tr><tr><td>D01</td><td>2023-04-06</td><td>STATUS UPDATE</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table> | Rev        | Date                                      | Description | P01 | 2022-05-31 | STAGE 4 ISSUE | P02 | 2022-06-09 | STAGE 4 ISSUE REVISED SLAB EDGE ANOTATION | P03 | 2022-07-08 | TENDER ADDENDUM | D01 | 2023-04-06 | STATUS UPDATE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <table><tr><td colspan="2">Project Title</td></tr><tr><td colspan="2">Port Street<br/>Manchester</td></tr><tr><td colspan="2">Status</td></tr><tr><td colspan="2">Design Development</td></tr></table> | Project Title |  | Port Street<br>Manchester |  | Status |  | Design Development |  | <table><tr><td colspan="2">Drawing Title</td></tr><tr><td colspan="2">Z1 Tower - Detail Section<br/>Curtain Wall Interface</td></tr><tr><td>Project No</td><td>Scale</td></tr><tr><td>10376</td><td>1 : 5 @ A3</td></tr><tr><td>SHP Drawing Code</td><td>Revision</td></tr><tr><td>10376-Z1-SHP-G251-DE-XX-P001</td><td>D01</td></tr></table> | Drawing Title |  | Z1 Tower - Detail Section<br>Curtain Wall Interface |  | Project No | Scale | 10376 | 1 : 5 @ A3 | SHP Drawing Code | Revision | 10376-Z1-SHP-G251-DE-XX-P001 | D01 | <div></div> <div><div>Manchester<br/>+44 (0)161 835 2345</div><div>London<br/>+44 (0)20 7549 4000</div></div> |
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|                                                                                                                                                                                                                                                       | Rev                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date       | Description                               |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       | P01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2022-05-31 | STAGE 4 ISSUE                             |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       | P02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2022-06-09 | STAGE 4 ISSUE REVISED SLAB EDGE ANOTATION |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       | P03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2022-07-08 | TENDER ADDENDUM                           |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       | D01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2023-04-06 | STATUS UPDATE                             |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |
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| Project Title                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                                           |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |
| Port Street<br>Manchester                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                                           |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |
| Status                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                                           |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |
| Design Development                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                                           |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |
| Drawing Title                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                                           |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |
| Z1 Tower - Detail Section<br>Curtain Wall Interface                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                                           |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |
| Project No                                                                                                                                                                                                                                            | Scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                                           |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |
| 10376                                                                                                                                                                                                                                                 | 1 : 5 @ A3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |                                           |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |
| SHP Drawing Code                                                                                                                                                                                                                                      | Revision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                           |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |
| 10376-Z1-SHP-G251-DE-XX-P001                                                                                                                                                                                                                          | D01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                           |             |     |            |               |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                        |               |  |                           |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                               |               |  |                                                     |  |            |       |       |            |                  |          |                              |     |                                                                                                                                                                                                    |

**simpsonhaugh**

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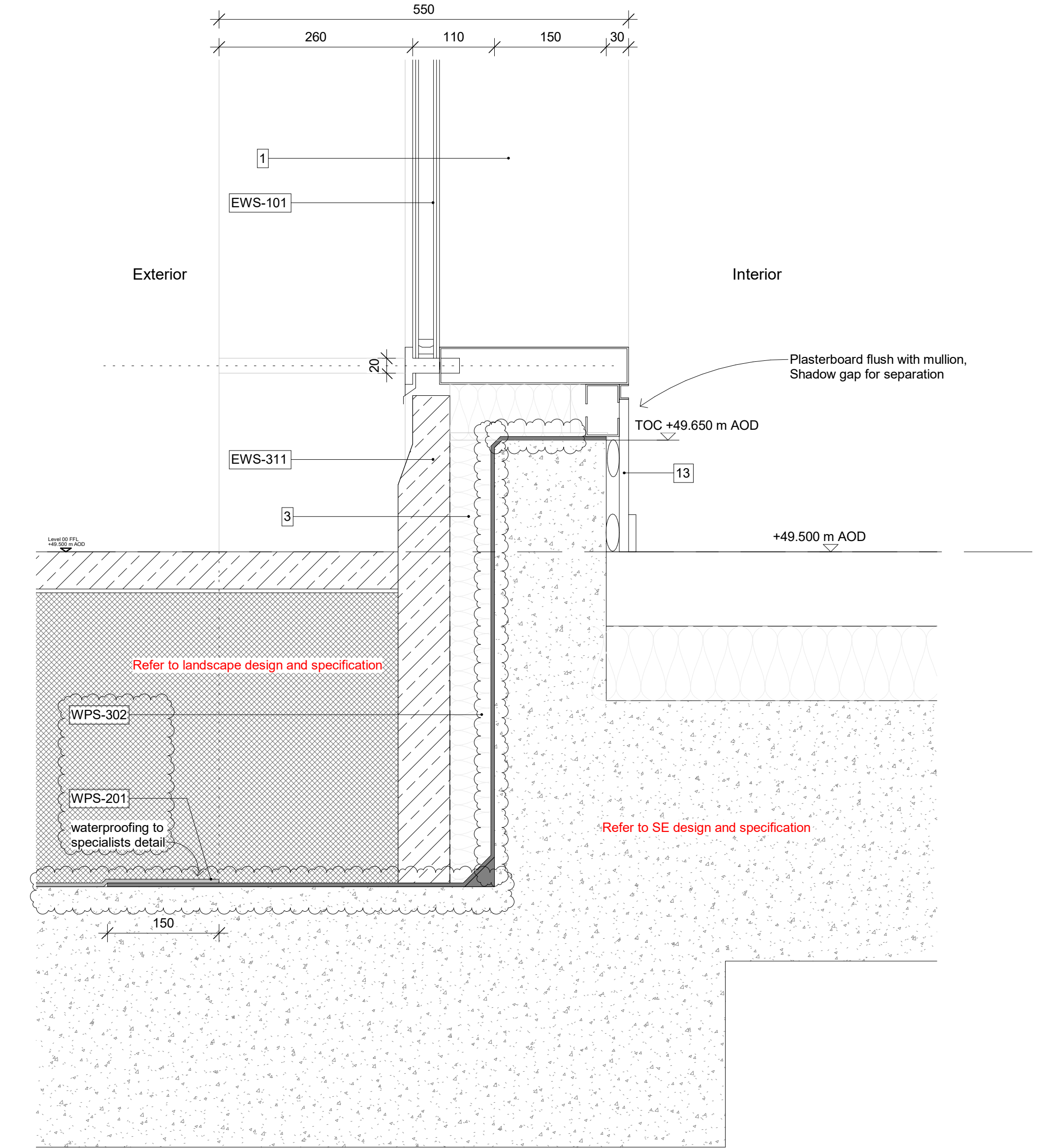
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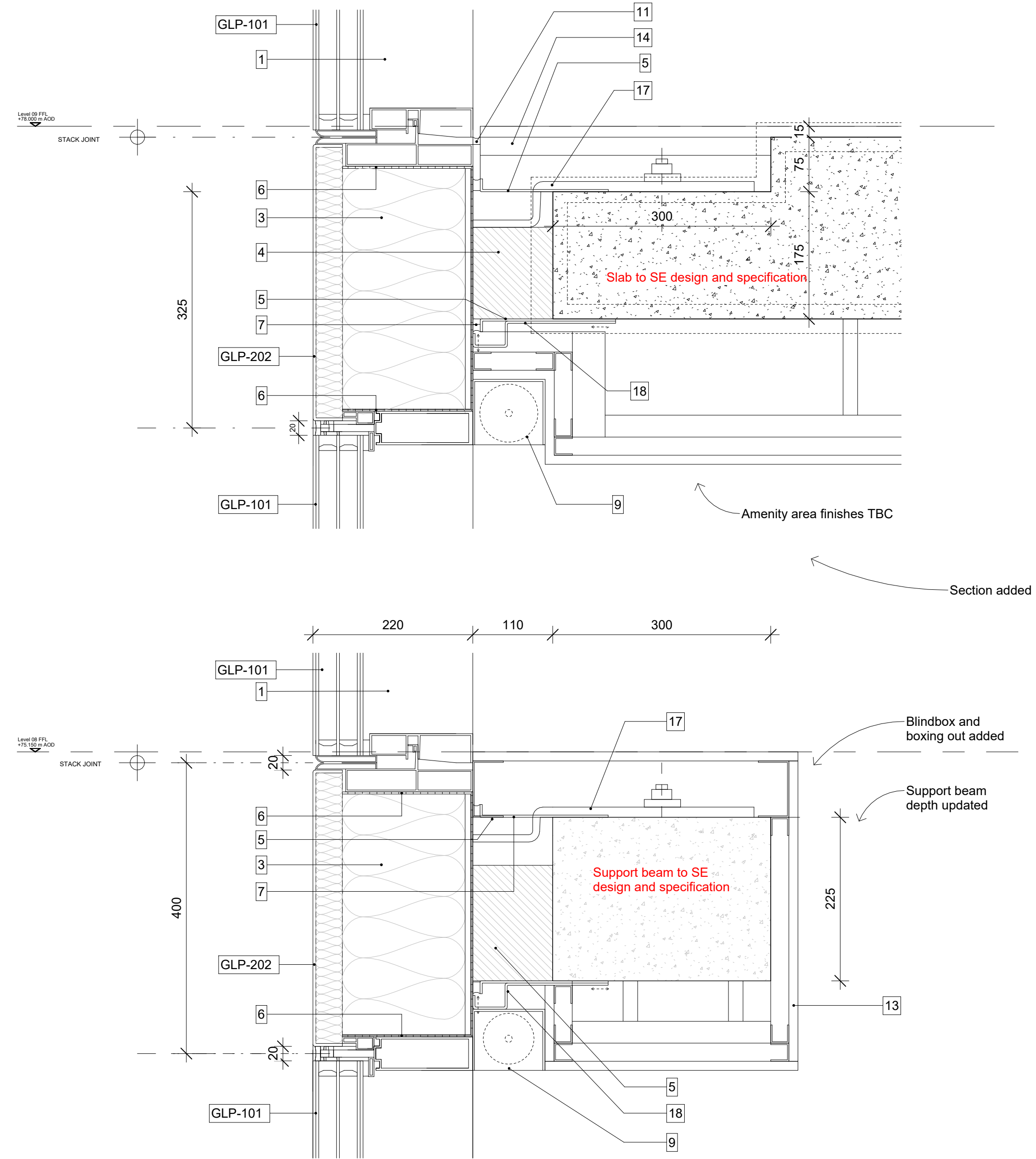
| Detail Key                                                                                                                                                                      |                                                                                     |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Extruded sheet aluminium                                                                                                                                                      | 9 Blindbox - by others                                                              | 17 Indicative top fixed cladding support bracket to be securely in cast in channel                                                  | <b>GLASS / PANEL TYPES</b><br><br>GLP - 101 Insulating Glass Unit<br>GLP - 201 Purge Vent Perforated Infill Panel<br>GLP - 202 Aluminium Faced Infill Panel<br>GLP-203 Perforated Infill Panel<br>GLP - 301 Louvered Infill Panel<br>AMW-301 Aluminium Fin<br>AMW-302 Aluminium Dummy Fins<br>EWS - 411 Aluminium Cladding | <b>EWS - 101</b> Capped Stick Built Curtain Walling System<br><b>EWS - 121</b> Capless Stick Built Curtain Walling System<br><b>DRS - 201</b> Glazed Doorset (Integrated)<br><b>DRS - 211</b> Glazed Framed Door<br><b>BAL-201</b> Structural Glass Balustrade (Balcony)<br><b>BAL-202</b> Structural Glass Balustrade (Roof screen)<br><b>DRS-422</b> Metal Louvred Doorset<br><b>DRS-423</b> Metal Louvred Doorset<br><b>EWS-331</b> Natural Stone Cladding | Drawings to be read in conjunction with the G251 Series (External Wall) Series of Drawings:<br><br><b>G251 External Wall Setting Out Plans:</b><br>Z1-SHP-G251-PL-(XX)-P(XXX)<br><br><b>G251 Facet Elevations:</b><br>Z1-SHP-G251-EL-XX-F0(X)<br><br><b>G251 Facade Configurations:</b><br>Z1-SHP-G251-EL-XX-P0(X)<br><br><b>G251 Typical Details:</b><br>Z1-SHP-G251-DE-XX-X(XXX)<br><br><b>G251 Panel Type Drawings:</b><br>Z1-SHP-G251-EL-XX-(XXXX) | Drawing to be read in conjunction with SHP visual specification and Façade Engineer 's performance specification.<br><br>Indicative details to illustrate visual design intent only. All to Façade Contractor 's design.<br><br>All details to be co-ordinated with adjacent trades, SE and M+E details.<br><br>The Façade Contractor is responsible for meeting the specified performance criteria. |
| 2 Solid purge vent door C/W concealed hinges and multipoint hold open restrictor - Frame Finish: Anodised                                                                       | 10 MVHR connects to spandrel perforated panel                                       | 18 Indicative additional support for Galvanised steel sheet. Mechanically fixed to slab. Fixing to allow for movement and tolerance |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3 Mineral wool insulation                                                                                                                                                       | 11 Where following trades develop detail; differential movement to be accounted for |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4 Firestop                                                                                                                                                                      | 12 Suspendend plasterboard ceiling system                                           |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5 Steel sheet slab closer                                                                                                                                                       | 13 Plasterboard lining                                                              |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6 Galvanised steel sheet (3mm thickness indicative only) contractor to demonstrate fire performance. To be same fire rating (integrity & insulation) as slab and edge fire stop | 14 Plywood infill - by others                                                       |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 7 Intumescent sealant (to be fire rated)                                                                                                                                        | 15 Aluminium sheet. Anodised Red/Brown                                              |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 8 Insect mesh or perforated sheet to outer face in line with building warranty provider's requirements                                                                          | 16 Floor edge cover. Finish RAL 7016                                                |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |

| <p>This drawing is copyright<br/>Do not scale off dimensions.<br/>All dimensions to be checked on<br/>site by contractor.</p> <p>Contractor to report any<br/>dimensional discrepancies,<br/>errors or omissions prior to<br/>commencing on site.</p> | <table><tr><th>Rev</th><th>Date</th><th>Description</th></tr><tr><td>P01</td><td>2022-05-31</td><td>STAGE 4 FIRST ISSUE</td></tr><tr><td>P02</td><td>2022-06-09</td><td>STAGE 4 ISSUE REVISED SLAB EDGE ANOTATION</td></tr><tr><td>P03</td><td>2022-07-08</td><td>TENDER ADDENDUM</td></tr><tr><td>D01</td><td>2023-04-06</td><td>STATUS UPDATE</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table> | Rev        | Date                                      | Description | P01 | 2022-05-31 | STAGE 4 FIRST ISSUE | P02 | 2022-06-09 | STAGE 4 ISSUE REVISED SLAB EDGE ANOTATION | P03 | 2022-07-08 | TENDER ADDENDUM | D01 | 2023-04-06 | STATUS UPDATE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <table><tr><td colspan="2">Project Title</td></tr><tr><td colspan="2">Port Street<br/>Manchester</td></tr><tr><td colspan="2"> </td></tr><tr><td colspan="2">Status</td></tr><tr><td colspan="2">Design Development</td></tr></table> | Project Title |  | Port Street<br>Manchester |  |  |  | Status |  | Design Development |  | <table><tr><td colspan="2">Drawing Title</td></tr><tr><td colspan="2">Z1 Tower - Detail Section<br/>Recessed Curtain Wall</td></tr><tr><td colspan="2"> </td></tr><tr><td>Project No</td><td>Scale</td></tr><tr><td>10376</td><td>1 : 5 @ A3</td></tr><tr><td colspan="2"> </td></tr><tr><td>SHP Drawing Code</td><td>Revision</td></tr><tr><td>10376-Z1-SHP-G251-DE-XX-P004</td><td>D01</td></tr></table> | Drawing Title |  | Z1 Tower - Detail Section<br>Recessed Curtain Wall |  |  |  | Project No | Scale | 10376 | 1 : 5 @ A3 |  |  | SHP Drawing Code | Revision | 10376-Z1-SHP-G251-DE-XX-P004 | D01 | <div></div> <div><div>Manchester<br/>+44 (0)161 835 2345</div><div>London<br/>+44 (0)20 7549 4000</div></div> |
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|                                                                                                                                                                                                                                                       | Rev                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Date       | Description                               |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                            |               |  |                                                    |  |  |  |            |       |       |            |  |  |                  |          |                              |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       | P01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2022-05-31 | STAGE 4 FIRST ISSUE                       |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                            |               |  |                                                    |  |  |  |            |       |       |            |  |  |                  |          |                              |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       | P02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2022-06-09 | STAGE 4 ISSUE REVISED SLAB EDGE ANOTATION |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                            |               |  |                                                    |  |  |  |            |       |       |            |  |  |                  |          |                              |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       | P03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2022-07-08 | TENDER ADDENDUM                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                            |               |  |                                                    |  |  |  |            |       |       |            |  |  |                  |          |                              |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       | D01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2023-04-06 | STATUS UPDATE                             |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                            |               |  |                                                    |  |  |  |            |       |       |            |  |  |                  |          |                              |     |                                                                                                                                                                                                    |
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| Project Title                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                            |               |  |                                                    |  |  |  |            |       |       |            |  |  |                  |          |                              |     |                                                                                                                                                                                                    |
| Port Street<br>Manchester                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                            |               |  |                                                    |  |  |  |            |       |       |            |  |  |                  |          |                              |     |                                                                                                                                                                                                    |
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| Design Development                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                            |               |  |                                                    |  |  |  |            |       |       |            |  |  |                  |          |                              |     |                                                                                                                                                                                                    |
| Drawing Title                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                            |               |  |                                                    |  |  |  |            |       |       |            |  |  |                  |          |                              |     |                                                                                                                                                                                                    |
| Z1 Tower - Detail Section<br>Recessed Curtain Wall                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                            |               |  |                                                    |  |  |  |            |       |       |            |  |  |                  |          |                              |     |                                                                                                                                                                                                    |
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| Project No                                                                                                                                                                                                                                            | Scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                            |               |  |                                                    |  |  |  |            |       |       |            |  |  |                  |          |                              |     |                                                                                                                                                                                                    |
| 10376                                                                                                                                                                                                                                                 | 1 : 5 @ A3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                            |               |  |                                                    |  |  |  |            |       |       |            |  |  |                  |          |                              |     |                                                                                                                                                                                                    |
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| SHP Drawing Code                                                                                                                                                                                                                                      | Revision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                            |               |  |                                                    |  |  |  |            |       |       |            |  |  |                  |          |                              |     |                                                                                                                                                                                                    |
| 10376-Z1-SHP-G251-DE-XX-P004                                                                                                                                                                                                                          | D01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                            |               |  |                                                    |  |  |  |            |       |       |            |  |  |                  |          |                              |     |                                                                                                                                                                                                    |



| Detail Key                                                                                                                                                                                 |                                                                                                |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <div>1</div> Extruded sheet aluminium                                                                                                                                                      | <div>9</div> Blindbox - by others                                                              | <div>17</div> Indicative top fixed cladding support bracket to be securely in cast in channel                                                  | <b>GLASS / PANEL TYPES</b><br><br><b>GLP - 101</b><br>Insulating Glass Unit<br><b>GLP - 201</b><br>Purge Vent Perforated Infill Panel<br><b>GLP - 202</b><br>Aluminium Faced Infill Panel<br><b>GLP-203</b><br>Perforated Infill Panel<br><b>GLP - 301</b><br>Louvered Infill Panel<br><b>AMW-301</b><br>Aluminium Fin<br><b>AMW-302</b><br>Aluminium Dummy Fins<br><b>EWS - 411</b><br>Aluminium Cladding | <b>EWS - 101</b><br>Capped Stick Built Curtain Walling System<br><b>EWS - 121</b><br>Capless Stick Built Curtain Walling System<br><b>DRS - 201</b><br>Glazed Doorset (Integrated)<br><b>DRS - 211</b><br>Glazed Framed Door<br><b>BAL-201</b><br>Structural Glass Balustrade (Balcony)<br><b>BAL-202</b><br>Structural Glass Balustrade (Roof screen)<br><b>DRS-422</b><br>Metal Louvred Doorset<br><b>DRS-423</b><br>Metal Louvred Doorset<br><b>EWS-331</b><br>Natural Stone Cladding | Drawings to be read in conjunction with the G251 Series (External Wall) Series of Drawings:<br><br><b>G251 External Wall Setting Out Plans:</b><br>Z1-SHP-G251-PL-(XX)-P(XXX)<br><br><b>G251 Facet Elevations:</b><br>Z1-SHP-G251-EL-XX-F0(X)<br><br><b>G251 Facade Configurations:</b><br>Z1-SHP-G251-EL-XX-P0(X)<br><br><b>G251 Typical Details:</b><br>Z1-SHP-G251-DE-XX-X(XXX)<br><br><b>G251 Panel Type Drawings:</b><br>Z1-SHP-G251-EL-XX-(XXXX) | Drawing to be read in conjunction with SHP visual specification and Façade Engineer's performance specification.<br><br>Indicative details to illustrate visual design intent only. All to Façade Contractor's design.<br><br>All details to be co-ordinated with adjacent trades, SE and M+E details.<br><br>The Façade Contractor is responsible for meeting the specified performance criteria. |
| <div>2</div> Solid purge vent door C/W concealed hinges and multipoint hold open restrictor - Frame Finish: Anodised                                                                       | <div>10</div> MVHR connects to spandrel perforated panel                                       | <div>18</div> Indicative additional support for Galvanised steel sheet. Mechanically fixed to slab. Fixing to allow for movement and tolerance |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                    |
| <div>3</div> Mineral wool insulation                                                                                                                                                       | <div>11</div> Where following trades develop detail; differential movement to be accounted for |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                    |
| <div>4</div> Firestop                                                                                                                                                                      | <div>12</div> Suspended plasterboard ceiling system                                            |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                    |
| <div>5</div> Steel sheet slab closer                                                                                                                                                       | <div>13</div> Plasterboard lining                                                              |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                    |
| <div>6</div> Galvanised steel sheet (3mm thickness indicative only) contractor to demonstrate fire performance. To be same fire rating (integrity & insulation) as slab and edge fire stop | <div>14</div> Plywood infill - by others                                                       |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                    |
| <div>7</div> Intumescent sealant (to be fire rated)                                                                                                                                        | <div>15</div> Aluminium sheet. Anodised Red/Brown                                              |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                    |
| <div>8</div> Insect mesh or perforated sheet to outer face in line with building warranty provider's requirements                                                                          | <div>16</div> Floor edge cover. Finish RAL 7016                                                |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                    |

| <p>This drawing is copyright<br/>Do not scale off dimensions.<br/>All dimensions to be checked on<br/>site by contractor.</p> <p>Contractor to report any<br/>dimensional discrepancies,<br/>errors or omissions prior to<br/>commencing on site.</p> | <table><tr><th>Rev</th><th>Date</th><th>Description</th></tr><tr><td>P01</td><td>2022-05-31</td><td>STAGE 4 FIRST ISSUE</td></tr><tr><td>P02</td><td>2022-07-08</td><td>TENDER ADDENDUM</td></tr><tr><td>P03</td><td>2023-03-03</td><td>TOE DETAIL UPDATE</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table> |            |                                | Rev   | Date  | Description | P01                                                                                                                          | 2022-05-31 | STAGE 4 FIRST ISSUE | P02      | 2022-07-08                   | TENDER ADDENDUM | P03 | 2023-03-03 | TOE DETAIL UPDATE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <table><tr><td colspan="2">Project Title</td></tr><tr><td colspan="2">Port Street</td></tr><tr><td colspan="2">Manchester</td></tr></table> |  | Project Title |  | Port Street |  | Manchester |  | <table><tr><td colspan="2">Drawing Title</td></tr><tr><td colspan="2">Z1 Tower - Detail Section</td></tr><tr><td colspan="2">Recessed Curtain Wall Ground Interface</td></tr></table> |  | Drawing Title |  | Z1 Tower - Detail Section |  | Recessed Curtain Wall Ground Interface |  | <div></div> <div><div>Manchester</div><div>+44 (0)161 835 2345</div></div> <div><div>London</div><div>+44 (0)20 7549 4000</div></div> |
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|                                                                                                                                                                                                                                                       | Rev                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Date       | Description                    |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                       | P01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2022-05-31 | STAGE 4 FIRST ISSUE            |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                       | P02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2022-07-08 | TENDER ADDENDUM                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                       | P03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2023-03-03 | TOE DETAIL UPDATE              |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
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|                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
| Project Title                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
| Port Street                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
| Manchester                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
| Drawing Title                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
| Z1 Tower - Detail Section                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
| Recessed Curtain Wall Ground Interface                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
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| Project No                                                                                                                                                                                                                                            | Scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
| 10376                                                                                                                                                                                                                                                 | 1 : 5 @ A3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
| SHP Drawing Code                                                                                                                                                                                                                                      | Revision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
| 10376-Z1-SHP-G251-DE-XX-P005                                                                                                                                                                                                                          | P03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
| Status                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            | ZONE: ONE - CLAS TYPE LOC: 3RD |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |
| STAGE 4 - PRELIMINARY                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                                |       |       |             |                                                                                                                              |            |                     |          |                              |                 |     |            |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                             |  |               |  |             |  |            |  |                                                                                                                                                                                       |  |               |  |                           |  |                                        |  |                                                                                                                                                                                                                            |



| Detail Key                                                                                                                                                                      |                                                                                     |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
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| 1 Extruded sheet aluminium                                                                                                                                                      | 9 Blindbox - by others                                                              | 17 Indicative top fixed cladding support bracket to be securely in cast in channel                                                  | <b>GLASS / PANEL TYPES</b><br><br>GLP - 101 Capped Stick Built Curtain Walling System<br>GLP - 121 Capless Stick Built Curtain Walling System<br>DRS - 201 Glazed Doorset (Integrated)<br>DRS - 211 Glazed Framed Door<br>BAL-201 Structural Glass Balustrade (Balcony)<br>BAL-202 Structural Glass Balustrade (Roof screen)<br>DRS-422 Metal Louvred Doorset<br>DRS-423 Metal Louvred Doorset<br>EWS-331 Natural Stone Cladding | <b>EWS - 101</b> Capped Stick Built Curtain Walling System<br><b>EWS - 121</b> Capless Stick Built Curtain Walling System<br><b>DRS - 201</b> Glazed Doorset (Integrated)<br><b>DRS - 211</b> Glazed Framed Door<br><b>BAL-201</b> Structural Glass Balustrade (Balcony)<br><b>BAL-202</b> Structural Glass Balustrade (Roof screen)<br><b>DRS-422</b> Metal Louvred Doorset<br><b>DRS-423</b> Metal Louvred Doorset<br><b>EWS-331</b> Natural Stone Cladding | Drawings to be read in conjunction with the G251 Series (External Wall) Series of Drawings:<br><br><b>G251 External Wall Setting Out Plans:</b><br>Z1-SHP-G251-PL-(XX)-P(XXX)<br><br><b>G251 Facet Elevations:</b><br>Z1-SHP-G251-EL-XX-F0(X)<br><br><b>G251 Facade Configurations:</b><br>Z1-SHP-G251-EL-XX-P0(X)<br><br><b>G251 Typical Details:</b><br>Z1-SHP-G251-DE-XX-X(XXX)<br><br><b>G251 Panel Type Drawings:</b><br>Z1-SHP-G251-EL-XX-(XXXX) | Drawing to be read in conjunction with SHP visual specification and Façade Engineer 's performance specification.<br><br>Indicative details to illustrate visual design intent only. All to Façade Contractor 's design.<br><br>All details to be co-ordinated with adjacent trades, SE and M+E details.<br><br>The Façade Contractor is responsible for meeting the specified performance criteria. |
| 2 Solid purge vent door C/W concealed hinges and multipoint hold open restrictor - Frame Finish: Anodised                                                                       | 10 MVHR connects to spandrel perforated panel                                       | 18 Indicative additional support for Galvanised steel sheet. Mechanically fixed to slab. Fixing to allow for movement and tolerance |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3 Mineral wool insulation                                                                                                                                                       | 11 Where following trades develop detail; differential movement to be accounted for |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4 Firestop                                                                                                                                                                      | 12 Suspended plasterboard ceiling system                                            |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5 Steel sheet slab closer                                                                                                                                                       | 13 Plasterboard lining                                                              |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6 Galvanised steel sheet (3mm thickness indicative only) contractor to demonstrate fire performance. To be same fire rating (integrity & insulation) as slab and edge fire stop | 14 Plywood infill - by others                                                       |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 7 Intumescent sealant (to be fire rated)                                                                                                                                        | 15 Aluminium sheet. Anodised Red/Brown                                              |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |
| 8 Insect mesh or perforated sheet to outer face in line with building warranty provider's requirements                                                                          | 16 Floor edge cover. Finish RAL 7016                                                |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |

| <p>This drawing is copyright<br/>Do not scale off dimensions.<br/>All dimensions to be checked on<br/>site by contractor.</p> <p>Contractor to report any<br/>dimensional discrepancies,<br/>errors or omissions prior to<br/>commencing on site.</p> | <table><tr><th>Rev</th><th>Date</th><th>Description</th></tr><tr><td>P01</td><td>2022-05-31</td><td>STAGE 4 FIRST ISSUE</td></tr><tr><td>P02</td><td>2022-06-09</td><td>STAGE 4 ISSUE REVISED SLAB EDGE ANOTATION</td></tr><tr><td>P03</td><td>2022-07-08</td><td>TENDER ADDENDUM</td></tr><tr><td>D01</td><td>2023-04-06</td><td>STATUS UPDATE</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table> | Rev        | Date                                      | Description | P01 | 2022-05-31 | STAGE 4 FIRST ISSUE | P02 | 2022-06-09 | STAGE 4 ISSUE REVISED SLAB EDGE ANOTATION | P03 | 2022-07-08 | TENDER ADDENDUM | D01 | 2023-04-06 | STATUS UPDATE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <table><tr><td colspan="2">Project Title</td></tr><tr><td colspan="2">Port Street<br/>Manchester</td></tr><tr><td colspan="2"> </td></tr><tr><td colspan="2">Status</td></tr><tr><td colspan="2">Design Development</td></tr></table> | Project Title |  | Port Street<br>Manchester |  |  |  | Status |  | Design Development |  | <table><tr><td colspan="2">Drawing Title</td></tr><tr><td colspan="2">Z1 Tower - Detail Section<br/>Typical Section Detail Link Beam</td></tr><tr><td colspan="2"> </td></tr><tr><td>Project No</td><td>Scale</td></tr><tr><td>10376</td><td>1 : 5 @ A3</td></tr><tr><td colspan="2">SHP Drawing Code</td></tr><tr><td colspan="2">10376-Z1-SHP-G251-DE-XX-P011</td></tr><tr><td>Revision</td><td>D01</td></tr></table> | Drawing Title |  | Z1 Tower - Detail Section<br>Typical Section Detail Link Beam |  |  |  | Project No | Scale | 10376 | 1 : 5 @ A3 | SHP Drawing Code |  | 10376-Z1-SHP-G251-DE-XX-P011 |  | Revision | D01 | <div></div> <div><div>Manchester<br/>+44 (0)161 835 2345</div><div>London<br/>+44 (0)20 7549 4000</div></div> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------|-------------|-----|------------|---------------------|-----|------------|-------------------------------------------|-----|------------|-----------------|-----|------------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--|---------------------------|--|--|--|--------|--|--------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--|---------------------------------------------------------------|--|--|--|------------|-------|-------|------------|------------------|--|------------------------------|--|----------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                       | Rev                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date       | Description                               |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       | P01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2022-05-31 | STAGE 4 FIRST ISSUE                       |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       | P02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2022-06-09 | STAGE 4 ISSUE REVISED SLAB EDGE ANOTATION |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       | P03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2022-07-08 | TENDER ADDENDUM                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       | D01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2023-04-06 | STATUS UPDATE                             |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
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| Project Title                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
| Port Street<br>Manchester                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
| Status                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
| Design Development                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
| Drawing Title                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
| Z1 Tower - Detail Section<br>Typical Section Detail Link Beam                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
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| Project No                                                                                                                                                                                                                                            | Scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
| 10376                                                                                                                                                                                                                                                 | 1 : 5 @ A3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
| SHP Drawing Code                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
| 10376-Z1-SHP-G251-DE-XX-P011                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |
| Revision                                                                                                                                                                                                                                              | D01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                           |             |     |            |                     |     |            |                                           |     |            |                 |     |            |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                       |               |  |                           |  |  |  |        |  |                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                         |               |  |                                                               |  |  |  |            |       |       |            |                  |  |                              |  |          |     |                                                                                                                                                                                                    |





