

## UK6199 - 58-66 King St, Manchester

### 4<sup>th</sup> Floor windows – Removal & Installation methodology

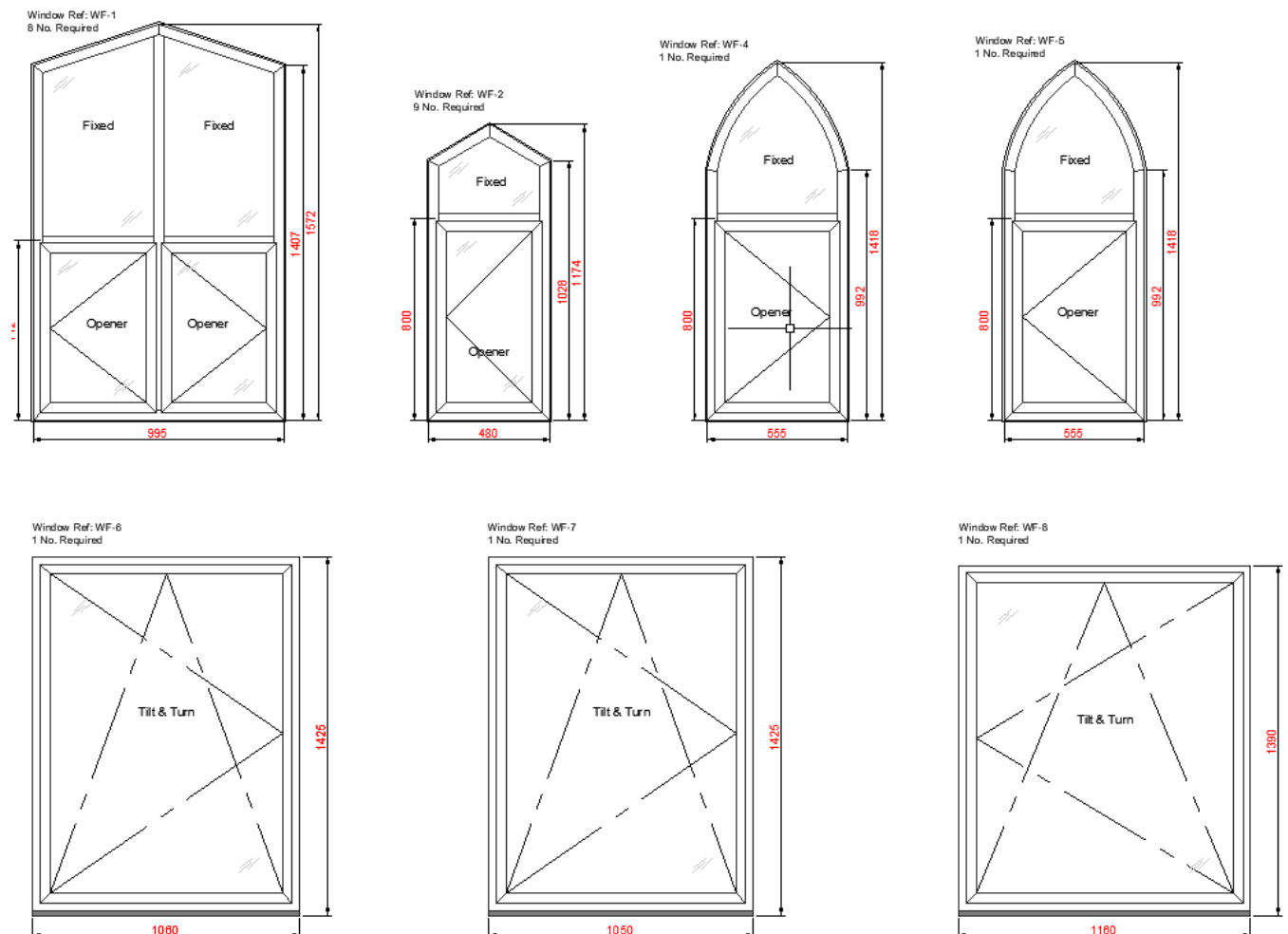
**Scope of works** – Remove existing windows and install new thermally enhanced powder coated aluminium windows – 26 No. windows in total of various layout.

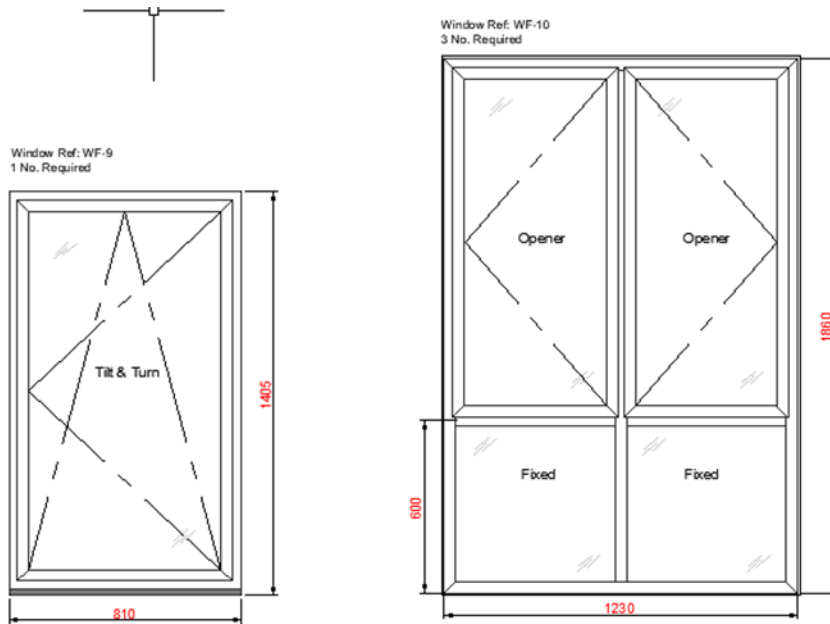
**Aluminium system:** Seniors Architecture Aluminium – Ali-VU super slimline system/ SPW600e  
Polyamide thermally broken window system

**Glass specification:** 45mm Triple glazed units

4mm Clear float toughened/ 10mm Thermal spacer/ 4mm Climaguard/ 10mm Thermal spacer/  
6.8mm Acoustic clear laminate low e

### New window layouts.





### **Removal/ installation of existing & new windows**

**Window reference's – WF-1,2,4,5,10** are fixed into a fibre glass surround which forms part of the outer window structure. Each of the windows have their own fibre glass surround apart from window refs: WF4 & 5 These 2 windows are part of the same mould.

To remove the existing windows, we will first remove the glass to expose the fixings that are on the inside of the framework. Once these fixings are removed, silicone around the windows will be cut and the windows carefully prised from their fibre glass moulds. Window surrounds to be fully cleaned of any excess silicone and dirt prior to new windows being installed.

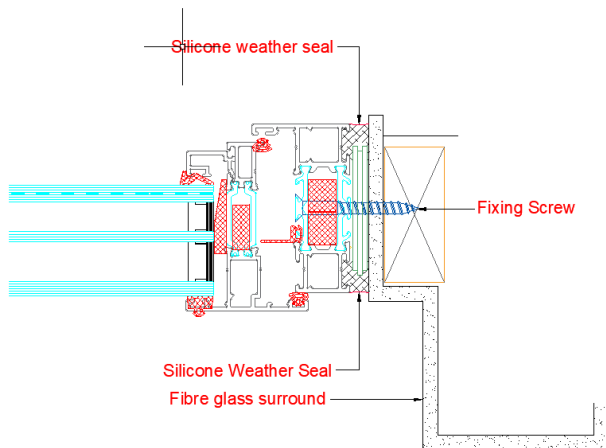
Window Ref: WF-4 & 5 Will need to be removed in the early stages to enable us to take templates of the arched sides. This window will be boarded up and made secure till the new windows are ready.

### **Photos of existing windows.**



The new windows will be inserted into the existing openings and fixed into position as per detail-A below. Once window has been securely fixing into place, silicone will be applied to gaps both external/ internal to create a weather tight seal. This will be done in a white silicone to match the framework.

### **Window Fixing Detail – A**

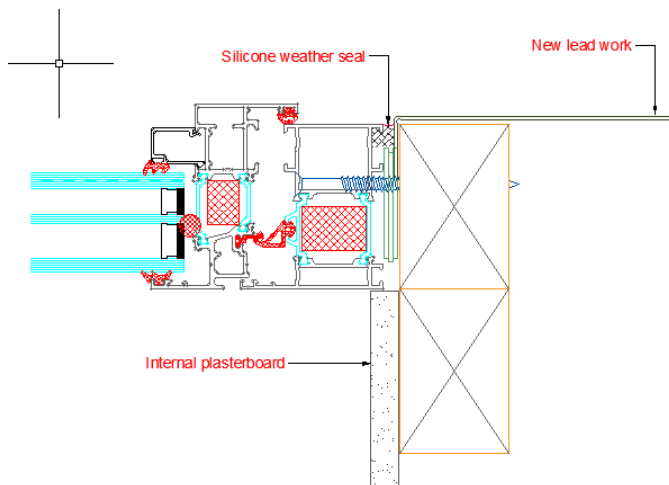


**Window reference's – WF-6,7,8** are to be direct fixed into the existing timber surround which forms part of the roof structure.

To remove the existing windows, we will first remove the glass to expose the fixings that are on the inside of the framework. Once these fixings are removed, old lead around the windows will be cut and the windows carefully removed from their openings. Window surround to be fully cleaned of any lead work and dirt prior to new windows being installed.

The new windows will be inserted into the existing openings and fixed into position as per detail-B below. Once window has been securely fixing into place, silicone will be applied to gaps on external face. New Lead work to be reinstated as per original design.

### **Window Fixing Detail – B**



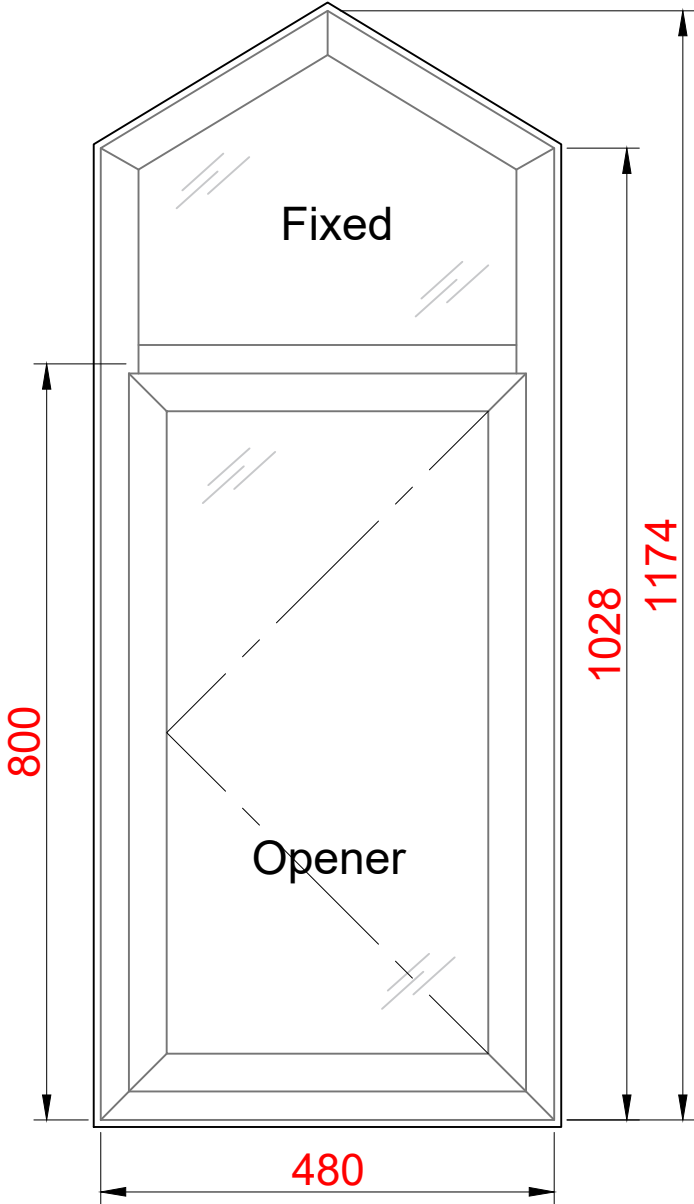
### **Removal from site of existing window materials.**

All window materials will be recycled where possible, and be placed into on-site recycle bins.

| Scale Bars                                         |    | TO BE USED ONLY AS GUIDANCE                        |    |
|----------------------------------------------------|----|----------------------------------------------------|----|
| 1:500                                              | mm | 1:1000                                             | mm |
| 1:1000                                             | mm | 1:2000                                             | mm |
| 1:2000                                             | mm | 1:4000                                             | mm |
| 1:4000                                             | mm | 1:8000                                             | mm |
| 1:8000                                             | mm | 1:16000                                            | mm |
| 1:16000                                            | mm | 1:32000                                            | mm |
| 1:32000                                            | mm | 1:64000                                            | mm |
| 1:64000                                            | mm | 1:128000                                           | mm |
| 1:128000                                           | mm | 1:256000                                           | mm |
| 1:256000                                           | mm | 1:512000                                           | mm |
| 1:512000                                           | mm | 1:1024000                                          | mm |
| 1:1024000                                          | mm | 1:2048000                                          | mm |
| 1:2048000                                          | mm | 1:4096000                                          | mm |
| 1:4096000                                          | mm | 1:8192000                                          | mm |
| 1:8192000                                          | mm | 1:16384000                                         | mm |
| 1:16384000                                         | mm | 1:32768000                                         | mm |
| 1:32768000                                         | mm | 1:65536000                                         | mm |
| 1:65536000                                         | mm | 1:131072000                                        | mm |
| 1:131072000                                        | mm | 1:262144000                                        | mm |
| 1:262144000                                        | mm | 1:524288000                                        | mm |
| 1:524288000                                        | mm | 1:1048576000                                       | mm |
| 1:1048576000                                       | mm | 1:2097152000                                       | mm |
| 1:2097152000                                       | mm | 1:4194304000                                       | mm |
| 1:4194304000                                       | mm | 1:8388608000                                       | mm |
| 1:8388608000                                       | mm | 1:16777216000                                      | mm |
| 1:16777216000                                      | mm | 1:33554432000                                      | mm |
| 1:33554432000                                      | mm | 1:67108864000                                      | mm |
| 1:67108864000                                      | mm | 1:134217728000                                     | mm |
| 1:134217728000                                     | mm | 1:268435456000                                     | mm |
| 1:268435456000                                     | mm | 1:536870912000                                     | mm |
| 1:536870912000                                     | mm | 1:1073741824000                                    | mm |
| 1:1073741824000                                    | mm | 1:2147483648000                                    | mm |
| 1:2147483648000                                    | mm | 1:4294967296000                                    | mm |
| 1:4294967296000                                    | mm | 1:8589934592000                                    | mm |
| 1:8589934592000                                    | mm | 1:17179869184000                                   | mm |
| 1:17179869184000                                   | mm | 1:34359738368000                                   | mm |
| 1:34359738368000                                   | mm | 1:68719476736000                                   | mm |
| 1:68719476736000                                   | mm | 1:137438953472000                                  | mm |
| 1:137438953472000                                  | mm | 1:274877906944000                                  | mm |
| 1:274877906944000                                  | mm | 1:549755813888000                                  | mm |
| 1:549755813888000                                  | mm | 1:1099511627776000                                 | mm |
| 1:1099511627776000                                 | mm | 1:2199023255552000                                 | mm |
| 1:2199023255552000                                 | mm | 1:4398046511104000                                 | mm |
| 1:4398046511104000                                 | mm | 1:8796093022208000                                 | mm |
| 1:8796093022208000                                 | mm | 1:17592186044416000                                | mm |
| 1:17592186044416000                                | mm | 1:35184372088832000                                | mm |
| 1:35184372088832000                                | mm | 1:70368744177664000                                | mm |
| 1:70368744177664000                                | mm | 1:140737488355328000                               | mm |
| 1:140737488355328000                               | mm | 1:281474976710656000                               | mm |
| 1:281474976710656000                               | mm | 1:562949953421312000                               | mm |
| 1:562949953421312000                               | mm | 1:1125899906842624000                              | mm |
| 1:1125899906842624000                              | mm | 1:2251799813685248000                              | mm |
| 1:2251799813685248000                              | mm | 1:4503599627370496000                              | mm |
| 1:4503599627370496000                              | mm | 1:9007199254740992000                              | mm |
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| 1:18014398509481984000                             | mm | 1:36028797018963968000                             | mm |
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| 1:2305843009213693952000                           | mm | 1:4611686018427387904000                           | mm |
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| 1:713623846372322753642977043328046385494230272000 | mm |                                                    |    |



Window Ref: WF-2  
9 No. Required



Overall window U value - 1.52W/m2K

| Floor     | UKSG Ref: | Architect Ref: | Qty | Window Spec |
|-----------|-----------|----------------|-----|-------------|
| 3rd Floor | WF-2      | 03-18-GE1      | 1   | Ali-VU      |
| 3rd Floor | WF-2      | 03-18-GE2      | 1   | Ali-VU      |
| 3rd Floor | WF-2      | 03-18-GE3      | 1   | Ali-VU      |
| 3rd Floor | WF-2      | 03-18-GE4      | 1   | Ali-VU      |
| 3rd Floor | WF-2      | 03-18-GE5      | 1   | Ali-VU      |
| 3rd Floor | WF-2      | 03-18-GE6      | 1   | Ali-VU      |
| 3rd Floor | WF-2      | 03-19-GE4      | 1   | Ali-VU      |
| 3rd Floor | WF-2      | 03-19-GE6      | 1   | Ali-VU      |
| 4th Floor | WF-2      | 04-22-GE1      | 1   | Ali-VU      |

Specification.

1.0 Windows

1.1 All window sections to be manufactured from SAS Ali-Vu Thermally broken profiles. All sections to be polyester powder coated Standard RAL colour - 9010 Matt

2.0 Window Ironmongery

- 2.1 Standard espagnollette locking handles
- 2.2 Restrictors required to all windows - maximum 100mm opening

3.0 Glass 35mm DGU's

3.1 Glass spec: - Clear Triple glazed units: 39mm  
4mm Clear float toughened/ 10mm Black warm edge  
4mm Climaguard A 1.1 Toughened/ 10mm Black warm edge  
6.8mm Acoustic Clear Laminate Low e  
Argon filled - U value 0.8W/m2K

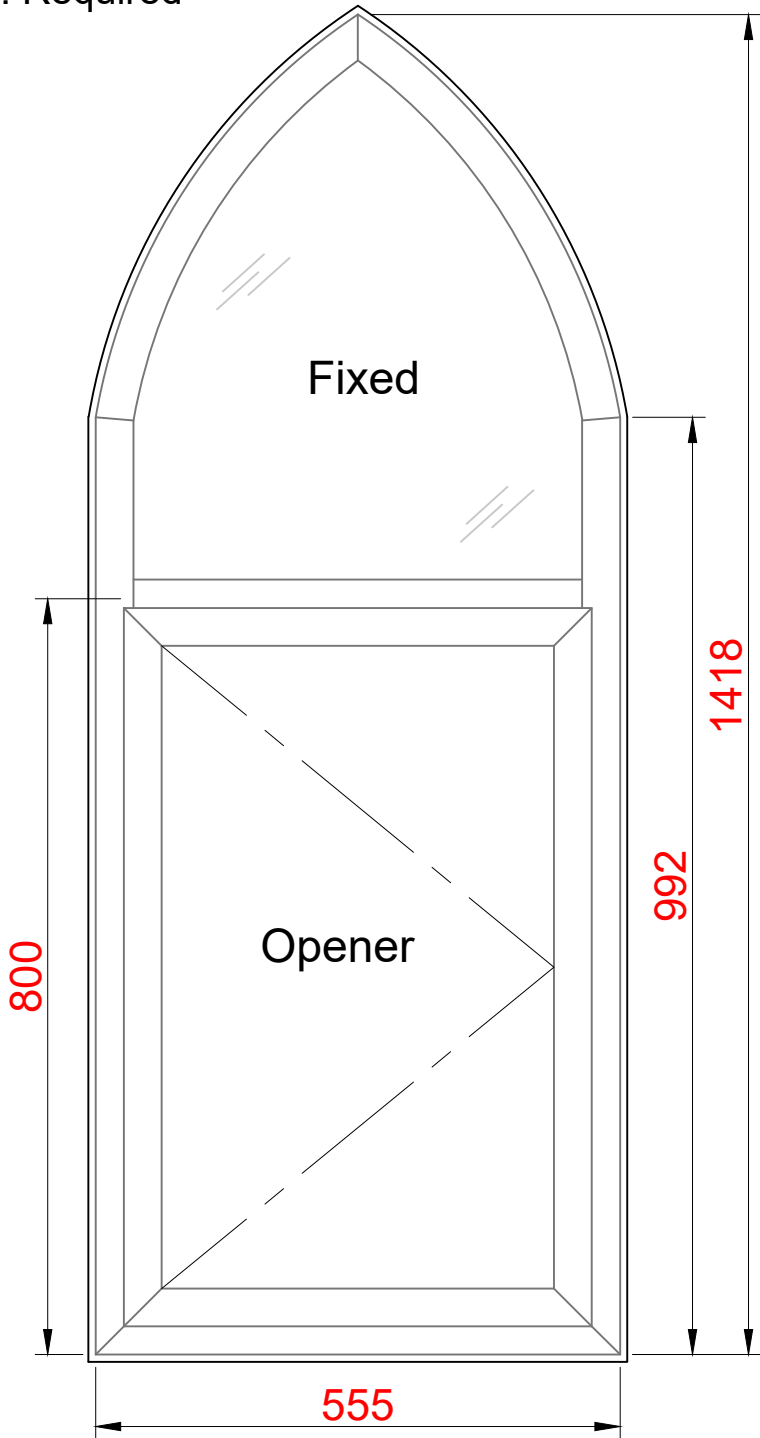
|      |                           |    |     |          |
|------|---------------------------|----|-----|----------|
| A2   | Vent changed to side hung | DH |     | 18-10-23 |
| REV. | Description               | By | CHD | Date     |

|                |  |                                                                                                                                           |  |
|----------------|--|-------------------------------------------------------------------------------------------------------------------------------------------|--|
| Client         |  | Recon                                                                                                                                     |  |
| Site/Contract  |  | 58-66 King Street                                                                                                                         |  |
| Drawing status |  | Preliminary issue <input type="checkbox"/> Approval issue <input checked="" type="checkbox"/> Construction issue <input type="checkbox"/> |  |
| Projection     |  | Title                                                                                                                                     |  |
| Drawn          |  | Window reference                                                                                                                          |  |
| DH             |  | WF-2                                                                                                                                      |  |
| Date           |  | 18-10-23                                                                                                                                  |  |
| Checked        |  | Date                                                                                                                                      |  |
|                |  | DRG No.                                                                                                                                   |  |
|                |  | UK00181-02                                                                                                                                |  |
|                |  | Rev                                                                                                                                       |  |
|                |  | A2                                                                                                                                        |  |
|                |  | Suite 1, 2nd Floor                                                                                                                        |  |
|                |  | Rookery House                                                                                                                             |  |
|                |  | Guineas Shopping Centre                                                                                                                   |  |
|                |  | Newmarket, Suffolk                                                                                                                        |  |
|                |  | CB8 8E                                                                                                                                    |  |
|                |  | TEL: +44 (0)133 666 7764                                                                                                                  |  |
|                |  | EMAIL: sales@ukstructuralglazing.co.uk                                                                                                    |  |
|                |  | WEBSITE: www.ukstructuralglazing.co.uk                                                                                                    |  |

UK STRUCTURAL GLAZING

© COPYRIGHT xxx LIMITED.

Window Ref: WF-4  
1 No. Required



Overall window U value - 1.41W/m2K

| Floor     | UKSG Ref: | Architect Ref: | Qty | Window Spec |
|-----------|-----------|----------------|-----|-------------|
| 4th Floor | WF-4      | 04-22-GE1      | 1   | Ali-VU      |

Specification.

- 1.0 Windows**  
1.1 All window sections to be manufactured from SAS Ali-Vu Thermally broken profiles. All sections to be polyester powder coated Standard RAL colour - 9010 Matt
- 2.0 Window Ironmongery**  
2.1 Standard espagnollette locking handles  
2.2 Restrictors required to all windows - maximum 100mm opening
- 3.0 Glass 35mm DGU's**  
3.1 Glass spec: - Clear Triple glazed units: 39mm  
4mm Clear float toughened/ 10mm Black warm edge  
4mm Climaguard A 1.1 Toughened/ 10mm Black warm edge  
6.8mm Acoustic Clear Laminate Low e  
Argon filled - U value 0.8W/m2K

| REV. | Description | By | CHD | Date |
|------|-------------|----|-----|------|
|      |             |    |     |      |

Client  
Recon

Site/Contract  
58-66 King Street

Drawing status  
Preliminary issue ☐ Approval issue ☒ Construction issue ☐

Projection  
Title  
Window reference  
WF-4

Drawn  
DH  
Date  
18-10-23

Checked  
Date

DRG No.  
UK00181-03

Rev  
A2

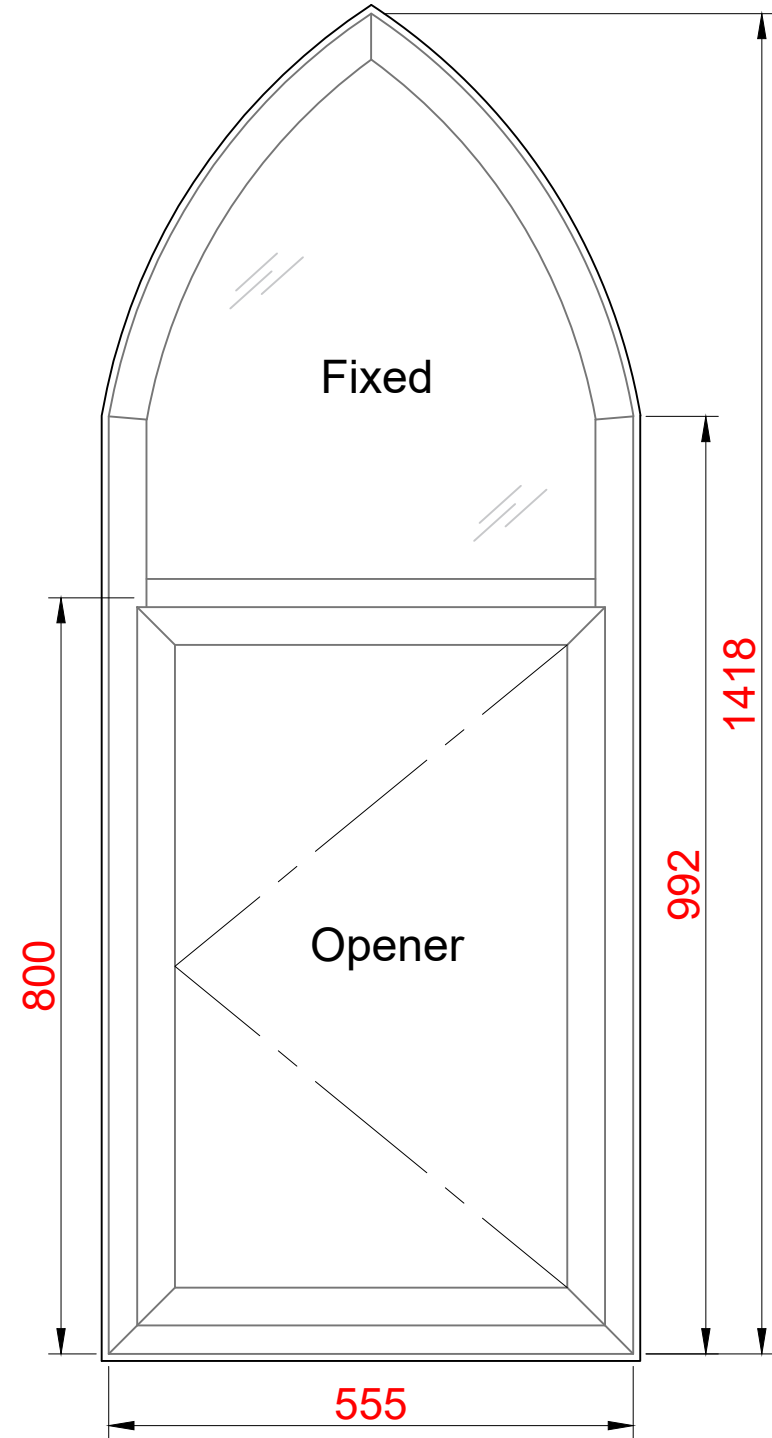
UK

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WEBSITE: www.ukstructuralglazing.co.uk

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Window Ref: WF-5  
1 No. Required



Overall window U value - 1.41W/m2K

| Floor     | UKSG Ref: | Architect Ref: | Qty | Window Spec |
|-----------|-----------|----------------|-----|-------------|
| 4th Floor | WF-5      | 04-22-GE3      | 1   | Ali-VU      |

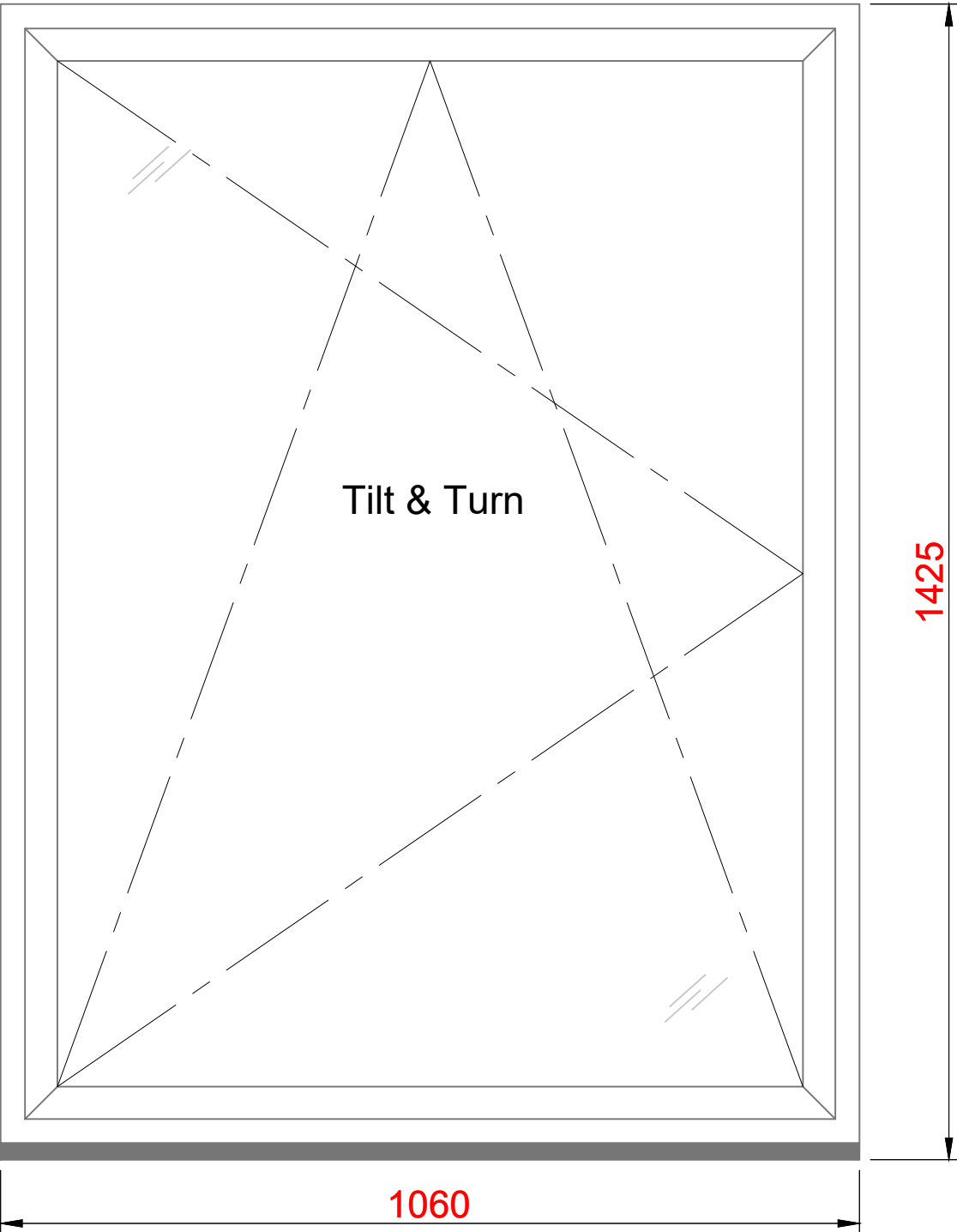
Specification.

- 1.0 Windows**  
1.1 All window sections to be manufactured from SAS Ali-Vu Thermally broken profiles. All sections to be polyester powder coated Standard RAL colour - 9010 Matt
- 2.0 Window Ironmongery**  
2.1 Standard espagnollette locking handles  
2.2 Restrictors required to all windows - maximum 100mm opening
- 3.0 Glass 35mm DGU's**  
3.1 Glass spec: - Clear Triple glazed units: 39mm  
4mm Clear float toughened/ 10mm Black warm edge  
4mm Climaguard A 1.1 Toughened/ 10mm Black warm edge  
6.8mm Acoustic Clear Laminate Low e  
Argon filled - U value 0.8W/m2K

| REV. | Description | By | CHD | Date |
|------|-------------|----|-----|------|
|      |             |    |     |      |

|                                                                                                                                                                                                                |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Client<br>Recon                                                                                                                                                                                                |                  |
| Site/Contract<br>58-66 King Street                                                                                                                                                                             |                  |
| Drawing status<br>Preliminary issue <input type="checkbox"/> Approval issue <input checked="" type="checkbox"/> Construction issue <input type="checkbox"/>                                                    |                  |
| Title<br>Window reference<br>WF-5                                                                                                                                                                              |                  |
| Drawn<br>DH                                                                                                                                                                                                    | Date<br>18-10-23 |
| Checked                                                                                                                                                                                                        | Date             |
| DRG No.<br>UK00181-04                                                                                                                                                                                          |                  |
| Rev<br>A2                                                                                                                                                                                                      |                  |
|                                                                                                                                                                                                                |                  |
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Window Ref: WF-6  
1 No. Required



Overall window U value - 1.18W/m2K

| Floor     | UKSG Ref: | Architect Ref: | Qty | Window Spec |
|-----------|-----------|----------------|-----|-------------|
| 4th Floor | WF-6      | 04-24-GL1      | 1   | SPW600e     |

Specification.

1.0 Windows

1.1 All window sections to be manufactured from SAS SPW600e Thermally broken profiles. All sections to be polyester powder coated Standard RAL colour - 9010 Matt

2.0 Window Ironmongery

- 2.1 Standard espagnollette locking handles
- 2.2 Restrictors required to all windows - maximum 100mm opening
- 2.3 50mm Projected cill required

3.0 Glass 39mm DGU's

3.1 Glass spec: - Clear Triple glazed units: 39mm  
4mm Clear float toughened/ 12mm Black warm edge  
4mm Climaguard A 1.1 Toughened/ 12mm Black warm edge  
6.8mm Acoustic Clear Laminate Low e  
Argon filled - - U value 0.6W/m2K

|      |                       |    |     |          |
|------|-----------------------|----|-----|----------|
| A2   | Trickle vents omitted | DH |     | 18-10-23 |
| REV. | Description           | By | CHD | Date     |

Client

Recon

Site/Contract

58-66 King Street

Drawing status

Preliminary issue ☐ Approval issue ☒ Construction issue ☐

Projection

Window reference  
WF-6

Drawn

DH

Date

18-10-23

Checked

Date

DRG No.

UK00181-05

Rev

A2

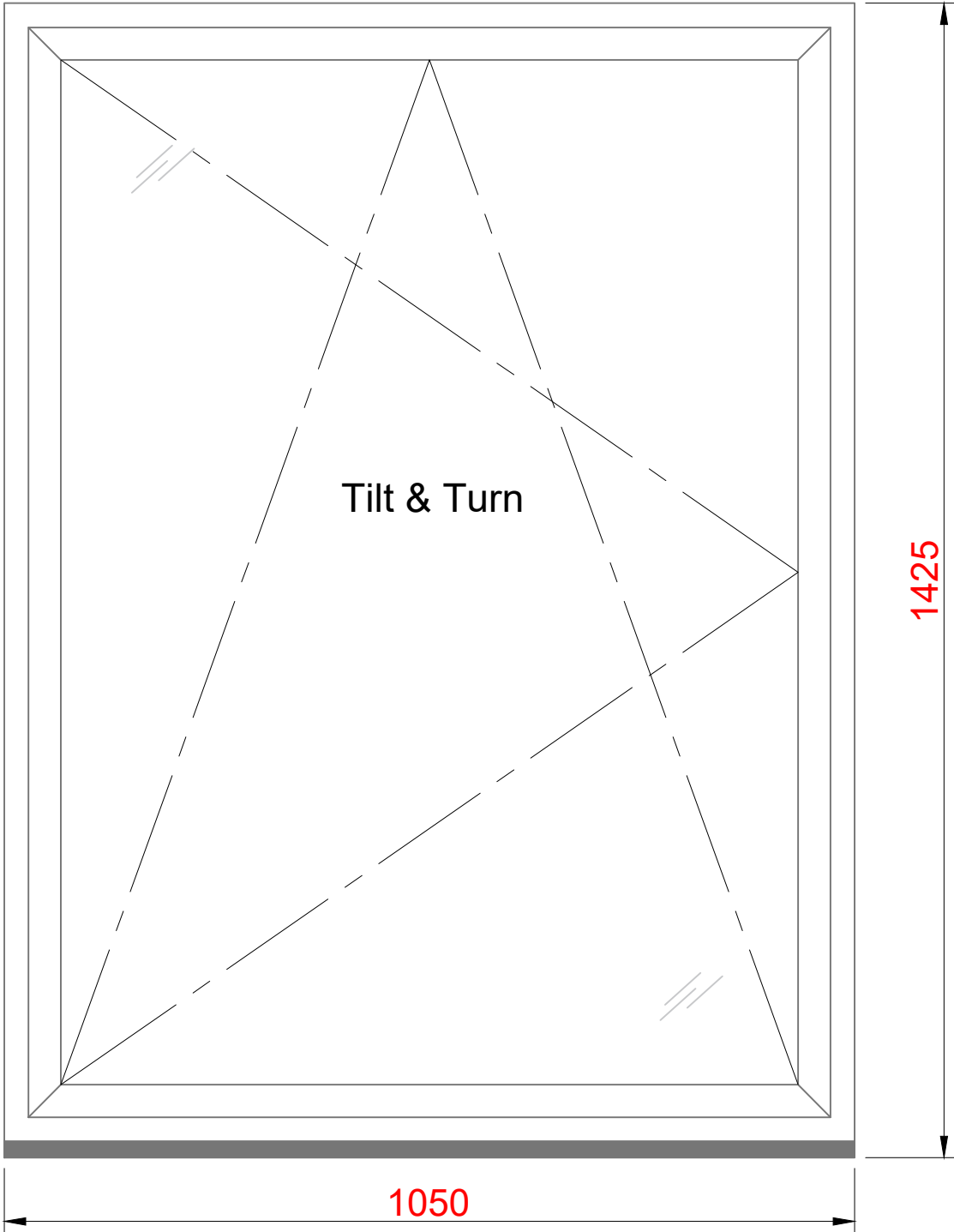
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Window Ref: WF-7  
1 No. Required



Overall window U value - 1.19W/m2K

| Floor     | UKSG Ref: | Architect Ref: | Qty | Window Spec |
|-----------|-----------|----------------|-----|-------------|
| 4th Floor | WF-7      | 04-24-GL2      | 1   | SPW600e     |

Specification.

1.0 Windows

1.1 All window sections to be manufactured from SAS SPW600e Thermally broken profiles. All sections to be polyester powder coated Standard RAL colour - 9010 Matt

2.0 Window Ironmongery

- 2.1 Standard espagnollette locking handles
- 2.2 Restrictors required to all windows - maximum 100mm opening
- 2.3 50mm Projected cill required

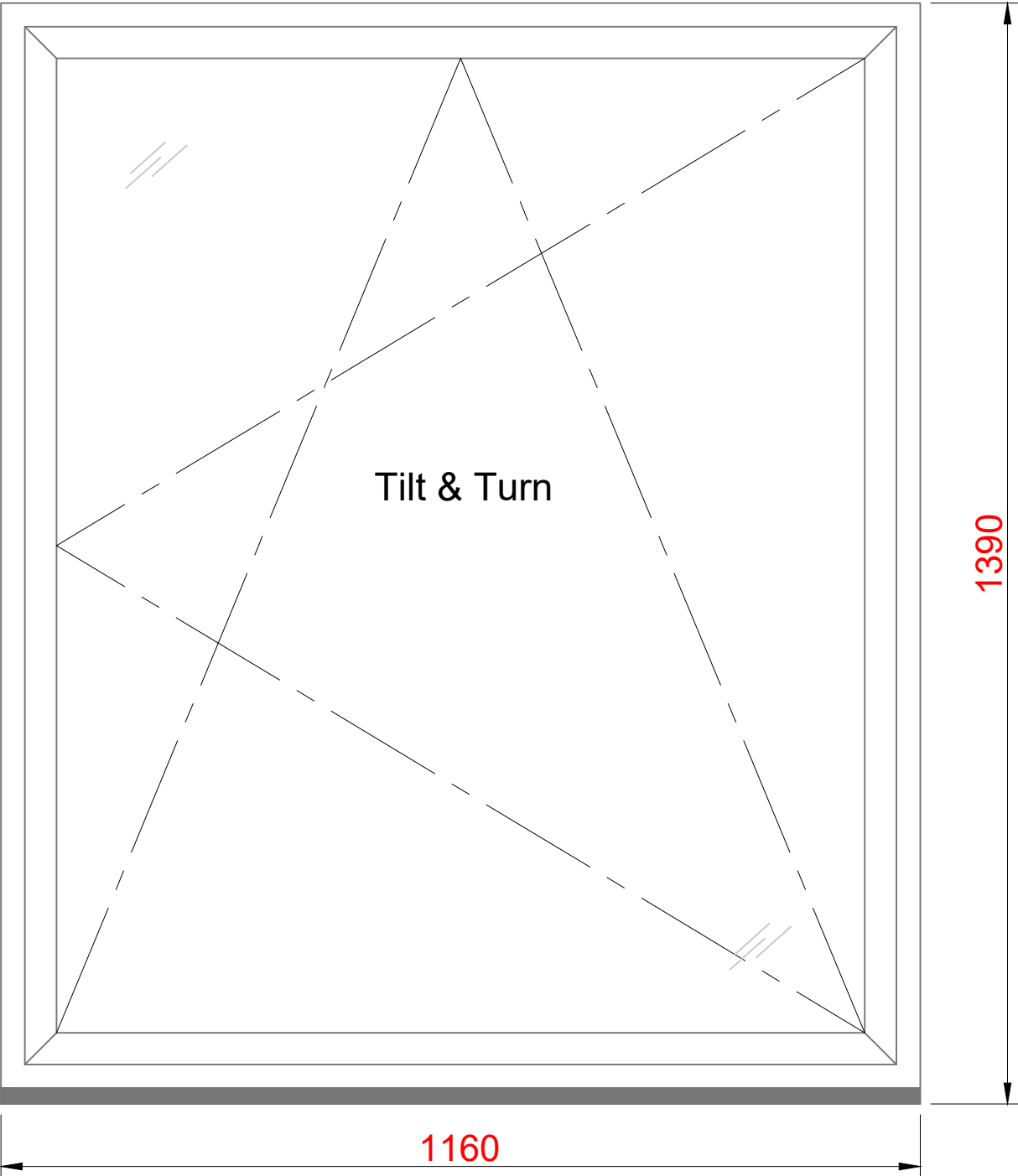
3.0 Glass 39mm DGU's

3.1 Glass spec: - Clear Triple glazed units: 39mm  
4mm Clear float toughened/ 12mm Black warm edge  
4mm Climaguard A 1.1 Toughened/ 12mm Black warm edge  
6.8mm Acoustic Clear Laminate Low e  
Argon filled - - U value 0.6W/m2K

|      |                       |    |     |          |
|------|-----------------------|----|-----|----------|
| A2   | Trickle vents omitted | DH |     | 18-10-23 |
| REV. | Description           | By | CHD | Date     |

|                       |  |                                                                                                                                                                                                                |  |
|-----------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Client                |  | Recon                                                                                                                                                                                                          |  |
| Site/Contract         |  | 58-66 King Street                                                                                                                                                                                              |  |
| Drawing status        |  | Preliminary issue <input type="checkbox"/> Approval issue <input checked="" type="checkbox"/> Construction issue <input type="checkbox"/>                                                                      |  |
| Projection            |  | Title                                                                                                                                                                                                          |  |
| Drawn                 |  | Window reference                                                                                                                                                                                               |  |
| DH                    |  | WF-7                                                                                                                                                                                                           |  |
| Date                  |  | 18-10-23                                                                                                                                                                                                       |  |
| Checked               |  | Date                                                                                                                                                                                                           |  |
| DRG No.               |  | UK00181-06                                                                                                                                                                                                     |  |
| Rev                   |  | A2                                                                                                                                                                                                             |  |
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Window Ref: WF-8  
1 No. Required



Overall window U value - 1.16W/m2K

| Floor     | UKSG Ref: | Architect Ref: | Qty | Window Spec |
|-----------|-----------|----------------|-----|-------------|
| 4th Floor | WF-8      | 04-23-GL1      | 1   | SPW600e     |

Specification.

1.0 Windows

1.1 All window sections to be manufactured from SAS SPW600e Thermally broken profiles. All sections to be polyester powder coated Standard RAL colour - 9010 Matt

2.0 Window Ironmongery

- 2.1 Standard espagnollette locking handles
- 2.2 Restrictors required to all windows - maximum 100mm opening
- 2.3 50mm Projected cill required

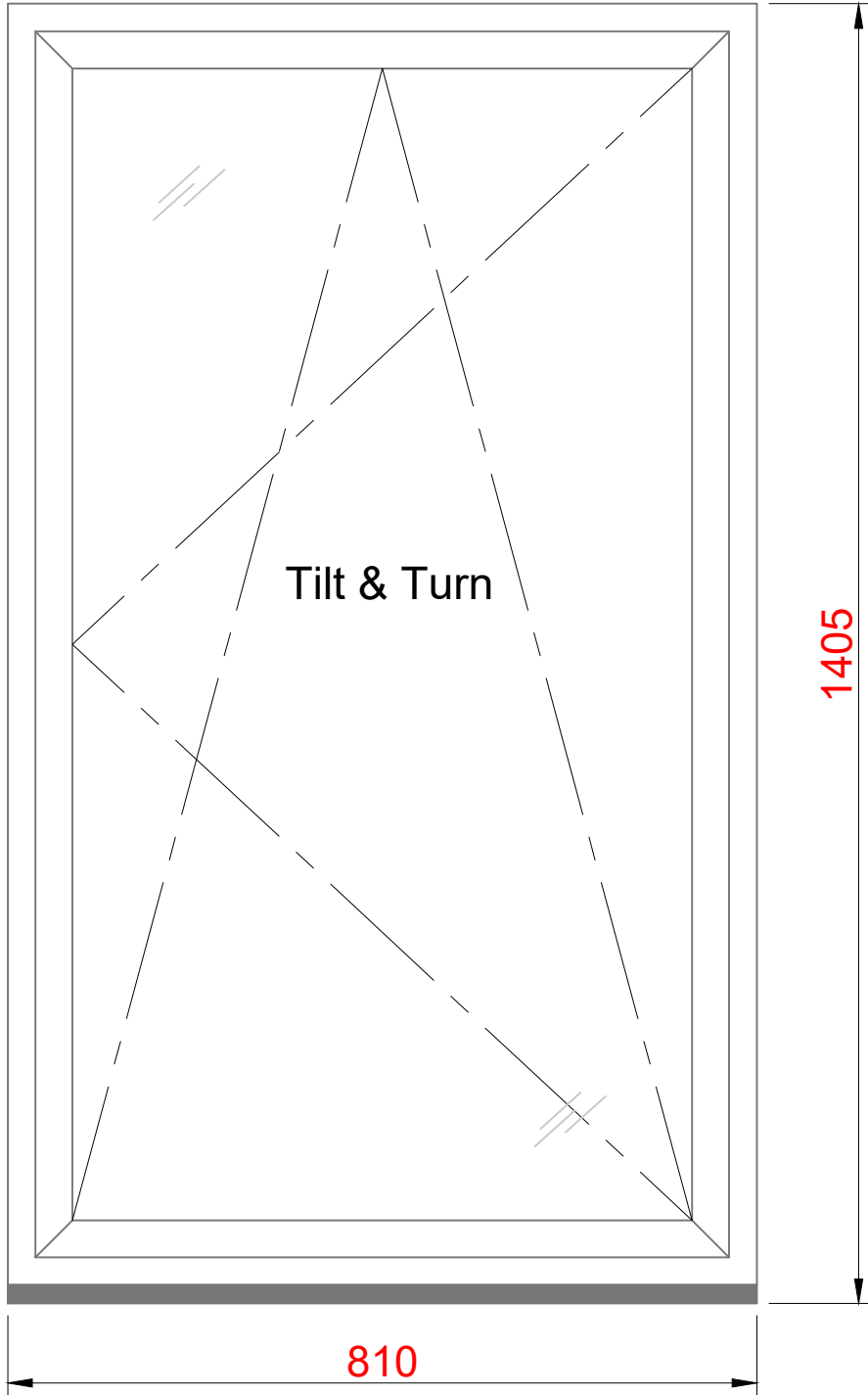
3.0 Glass 39mm DGU's

3.1 Glass spec: - Clear Triple glazed units: 39mm  
4mm Clear float toughened/ 12mm Black warm edge  
4mm Climaguard A 1.1 Toughened/ 12mm Black warm edge  
6.8mm Acoustic Clear Laminate Low e  
Argon filled - - U value 0.6W/m2K

|      |                       |    |     |          |
|------|-----------------------|----|-----|----------|
| A2   | Trickle vents omitted | DH |     | 18-10-23 |
| REV. | Description           | By | CHD | Date     |

|                    |  |                                                                                                                                                                                                           |  |
|--------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Client             |  | Recon                                                                                                                                                                                                     |  |
| Site/Contract      |  | 58-66 King Street                                                                                                                                                                                         |  |
| Drawing status     |  | Preliminary issue <input type="checkbox"/> Approval issue <input checked="" type="checkbox"/> Construction issue <input type="checkbox"/>                                                                 |  |
| Projection         |  | Title                                                                                                                                                                                                     |  |
| Drawn              |  | Date                                                                                                                                                                                                      |  |
| DH                 |  | 18-10-23                                                                                                                                                                                                  |  |
| Checked            |  | Date                                                                                                                                                                                                      |  |
| DRG No.            |  | Rev                                                                                                                                                                                                       |  |
| UK00181-07         |  | A2                                                                                                                                                                                                        |  |
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Window Ref: WF-9  
1 No. Required



Overall window U value - 1.28W/m2K

| Floor     | UKSG Ref: | Architect Ref: | Qty | Window Spec |
|-----------|-----------|----------------|-----|-------------|
| 4th Floor | WF-9      | 04-23-GL2      | 1   | SPW600e     |

Specification.

1.0 Windows

1.1 All window sections to be manufactured from SAS SPW600e Thermally broken profiles. All sections to be polyester powder coated Standard RAL colour - 9010 Matt

2.0 Window Ironmongery

- 2.1 Standard espagnollette locking handles
- 2.2 Restrictors required to all windows - maximum 100mm opening
- 2.3 50mm Projected cill required

3.0 Glass 39mm DGU's

3.1 Glass spec: - Clear Triple glazed units: 39mm  
4mm Clear float toughened/ 12mm Black warm edge  
4mm Climaguard A 1.1 Toughened/ 12mm Black warm edge  
6.8mm Acoustic Clear Laminate Low e  
Argon filled - - U value 0.6W/m2K

|      |                       |    |     |          |
|------|-----------------------|----|-----|----------|
| A2   | Trickle vents omitted | DH |     | 18-10-23 |
| REV. | Description           | By | CHD | Date     |

|                       |  |                                                                                                                                                                                                               |  |
|-----------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Client                |  | Recon                                                                                                                                                                                                         |  |
| Site/Contract         |  | 58-66 King Street                                                                                                                                                                                             |  |
| Drawing status        |  | Preliminary issue <input type="checkbox"/> Approval issue <input checked="" type="checkbox"/> Construction issue <input type="checkbox"/>                                                                     |  |
| Projection            |  | Title                                                                                                                                                                                                         |  |
| Drawn                 |  | Window reference                                                                                                                                                                                              |  |
| DH                    |  | WF-9                                                                                                                                                                                                          |  |
| Date                  |  | 18-10-23                                                                                                                                                                                                      |  |
| Checked               |  | Date                                                                                                                                                                                                          |  |
| DRG No.               |  | UK00181-08                                                                                                                                                                                                    |  |
| Rev                   |  | A2                                                                                                                                                                                                            |  |
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