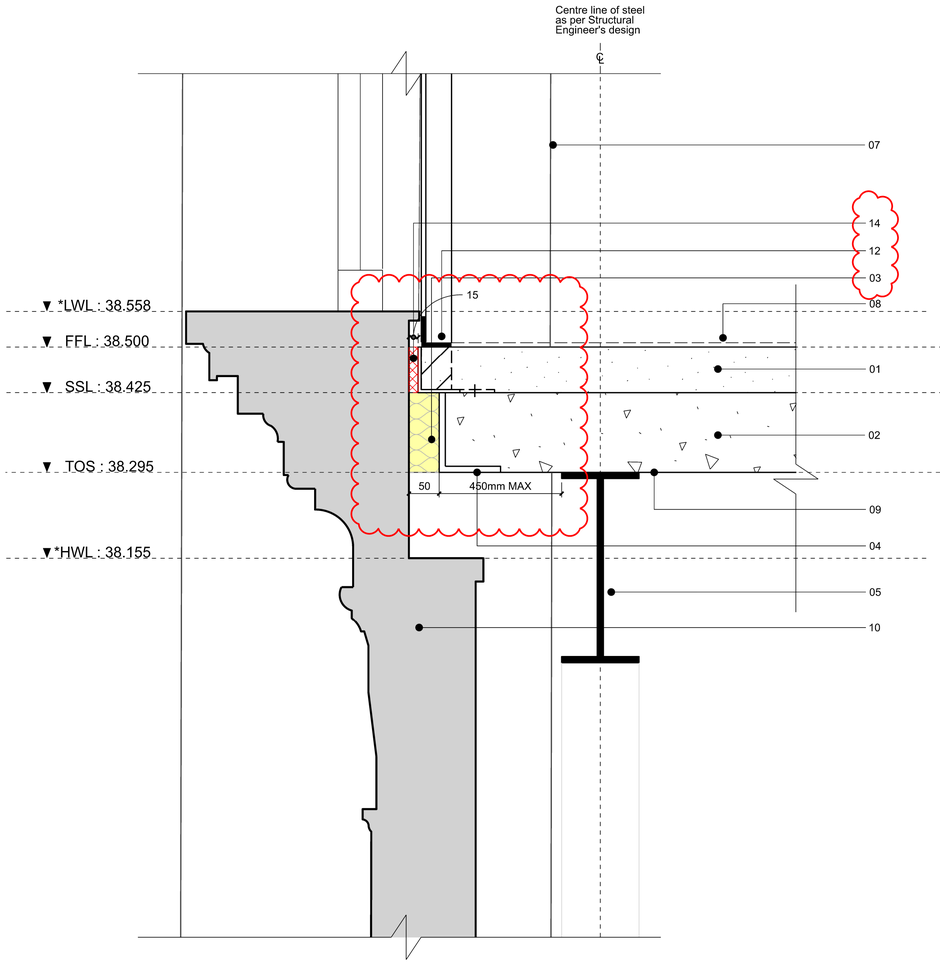
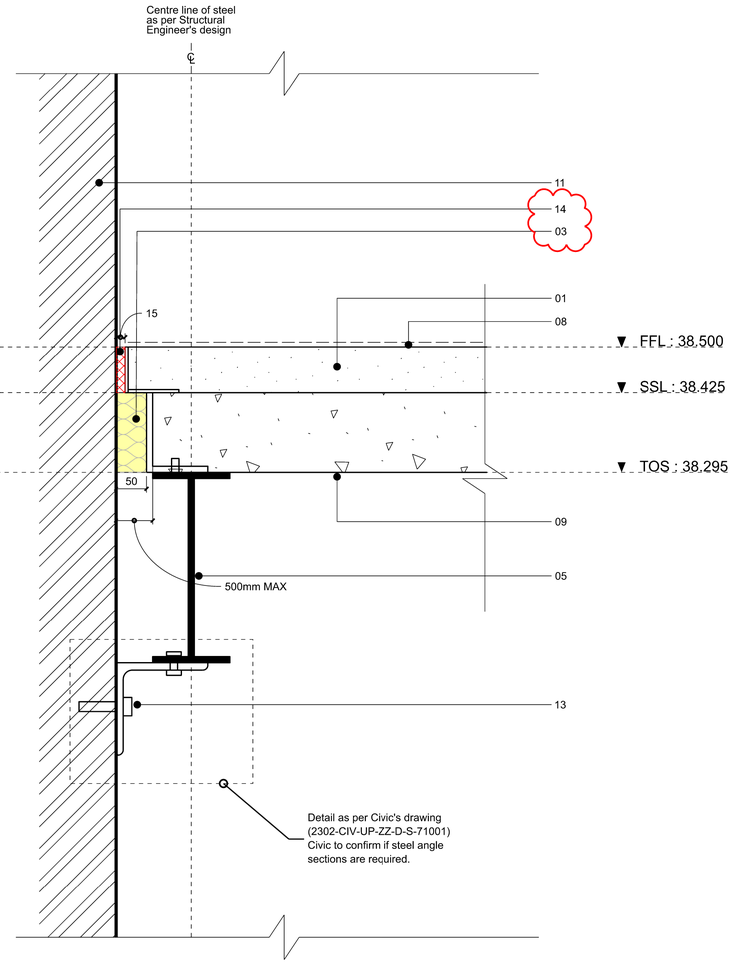


Typical Mezzanine Edge Detail 01
General Detail



Typical Mezzanine Edge Detail 02
Brick Party Wall

KEY

01. 75mm lightweight screed to SE specification.
02. 130mm lightweight concrete in metal deck to SE specification.
03. 50mm Acoustic fire cavity barrier- to achieve 30mins fire protection. Installed from above packed tight. Density as per Acoustician's specification.
04. Decking edge trim to be sized to catch screed thickness, to deck supplier specification.
05. New mezzanine steelwork to SE specification.
~~06. 125mm x 18mm timber finishing piecefixed to screed.~~
07. Line of existing column (position varies in relation to the extermal envelope and mezzanine deck).
08. 15mm zone for floor finishes to HART specification.
09. Soffit finish to HART specification.
10. Existing facade (drawn indicatively)
11. Existing brickwork wall (drawn indicatively)
12. 15mm x 50mm mild steel balustrade fixed to concrete. Fixing details as per specialist subcontractor design. Once installed, screed infill to FFL. Height from FFL in line with AD K & O. Drawn indicatively (refer to 29 series) Detailed design to specialist sub-contractor. Finishes spec TBC by HART.
13. Long steel angle sections as per SE specification.
14. Screed set 15mm from external wall, filled with perimeter edge strip or equivalent and sealed with fire rated mastic sealant.

Notes:

Do not scale from this drawing.
All dimensions are in millimetres unless otherwise noted.
All dimensions to be checked on site before proceeding with work.
All omissions and discrepancies to be reported in writing to Project 3 Architects Ltd.
Areas indicated on this drawing are approximate and indicative only.
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This drawing is to be read in conjunction with the following drawing series:

(00) Series	Site Information
(03) Series	Demolition Drawings
(04) Series	GA Plans, Sections & Elevations
(08) Series	Accomodation Schedule
(09) Series	Acoustic Plans
(12) Series	FS & BR Plans
(20) Series	Mezzanine Deck Details
(22) Series	Internal Partition Details
(23) Series	Internal Partition Details
(24) Series	Stair Details
(26) Series	Feature Studio 01
(29) Series	Architectural Metalwork Details
(30) Series	External Louvre Details
(31) Series	External Window & Door Details
(32) Series	Internal Door Details
(33) Series	Slab Penetrations

Notes

01. Drawing is for design intent and setting out. All measurements to be site checked by contractor.
02. Detailed design to specialist subcontractor drawings.
03. Information of postition of window to edge of wall and existing columns have been based of the latest survey information. Before installation all dimesions should be taken from site

LWL : Lowest Window Level
FFL : Finished Floor Level
SSL : Structural Slab Level
TOS : Top of Steel Level
HWL : Highest Wall Level

N.b. LWL & HWL are based on survey information provided by contractor.

Rev:	Date:	Description:	By:
C02	07/11/24	Update as clouded	CP
C01	30/07/24	Construction Issue	CP

0.2 m 0 0.2 0.4 0.6 m

PROJECT 3 architects
4 back grafton street
altrincham
cheshire
WA14 1DY
0161 233 0575
mail@project3architects.com
www.project3architects.com

Project:
Upper Campfield
Liverpool Rd, Manchester
Title:
Proposed Mezzanine Deck Edge Details
Status: CONSTRUCTION
Scale @ ISO A1: 1:5
Drawing Number: 0798-P3A-XX-XX-DR-A-20304
Revision: C02

Civic Engineers

Job Title

Campfield Markets

Report Type

G10 Specification - Structural steel framing

Prepared for

Allied London

Date

30 November 2023

G10 Specification - Structural steel framing

Prepared by	**Callum Wilson**
Reviewed by	Richard Dowdall
Civic Job No.	2302
Issued	30/11/2023 – P01
Revised	

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G10 Structural steel framing

To be read with Preliminaries/ General conditions.

GENERAL REQUIREMENTS/ INFORMATION

110 CONTRACTOR'S DESIGN OF JOINTS STEEL TO STEEL CONNECTIONS FOR ALL STEELWORK

- Design concept: The Contractor is responsible for the design of all steel-to-steel connections based on loads provided by the Consulting Engineers.
- Design responsibility: Design connections and detail steelwork and connections.
  - Other responsibilities: None.
- Structural requirements:
  - Generally: As section B50.
    Modifications: None.
  - Design: Complete in accordance with the designated code of practice to satisfy specified performance criteria.
  - Connections: Design and detail joints to designated code of practice.
  - Fixings to foundations and walls: Design and detail fixings to concrete to designated code of practice.
  - Additional requirements: None.
- Design and production information: Design calculations and details for each unique connection detail.

115 DESIGN CONSTRAINTS - GENERAL

- ***Opportunity to reuse existing steelwork elements from the existing structure which are to be removed. Contractor to remove steelwork, store and catalogue for reuse.***
- Members forming bracing systems or girders of lattice construction: Unless detailed or instructed otherwise, position so that their lines of action intersect at a point.
- Bolts:
  - Diameter (minimum): 16 mm.
  - Number per connection (minimum): Two, unless otherwise indicated.
  - Other requirements: n/a
- Punching of bolt holes: Not permitted.
- Welds: At least 6 mm fillet.
- Other constraints: None.

116 DESIGN CONSTRAINTS - STEELWORK TO BE GALVANIZED

- Steel grades: Do not use steel downgraded from a higher specification.
- Detail design: Avoid details that will increase the risk of initiating liquid metal assisted cracking (LMAC).
  - Particular restrictions: None.
- Other requirements: Drill holes for bolts and Seal vent and drainage holes in hollow sections using non-ferrous plugs.

120 DRAWINGS AND CALCULATIONS

- Information required: As submission schedule.
- Requirement: Before preparing detailed fabrication drawings, submit:
  - General arrangement drawings with individual steel members clearly identified.
  - Calculations for major connections.

123 DRAWINGS AND CALCULATIONS PREPARED BY CONTRACTOR

- Information required: As submission schedule.
- General arrangement drawings: Submit before preparing calculations. Clearly identify:
  - Individual steel members.
  - Conflicts with other work.
  - Proposed changes to contract drawings.
- Member and joint calculations: Submit before preparing fabrication drawings.

125 SPECIFICATION STANDARD

- Standard: Comply with latest edition of National Structural Steelwork Specification (NSSS).
  - Additional requirements: Minimum Execution Class EXC2.
  - Document availability: For the duration of the work, at fabrication shop and on site.
- References to Engineer in NSSS: For the purpose of this contract, interpret such references as being to the person named in section A10 as Consulting Structural Engineer.
  - Exceptions: None.

130 GENERAL STEEL SECTIONS AND PLATES ALL

- Certification: Provide European Technical Assessment (ETA) with CE marking and a Declaration of Performance (DoP).
- Standard: To BS EN 10025-2.
- Grade: S355JR (internal), S355J2 (external) where applicable.
  - Options: None.
- Source: Obtain steel from a source accredited to a national or internationally accepted quality standard.
- Other requirements: None.

135 HOLLOW STEEL SECTIONS ALL

- Certification: Provide European Technical Assessment (ETA) with CE marking and a Declaration of Performance (DoP).
- Standard: To BS EN 10210-1.
- Grade: S355J2H.
  - Options: None.
- Source: Obtain steel from a source accredited to a national or internationally accepted quality standard.
- Other requirements: None.

FABRICATION

180 NOTIFICATION OF COMMENCEMENT

- Notice: Give notice before fabrication is due to start.
  - Period of notice (minimum): Five working days.

190 MARKING

- Identifying and recording materials and components: Submit details of proposed methods.
- Location of marks:
  - Generally: Visible for checking after erection.
  - Weathering steel: On surfaces not exposed to open view in the completed work.
- Steel to be blast cleaned, pickled, metal sprayed or galvanized: Marked so that subsequent treatment cannot obliterate the marking.

195 HARD STAMPING

- Usage: Not permitted except as indicated on drawings.

210 END CONNECTIONS

- Angle web cleats: Project 10 mm beyond ends of simply supported members.

215 HOLLOW SECTIONS

- Insides of sections: Debris and moisture removed before sealing ends and openings.

220 ACCESS/ VENTILATION HOLES IN BASE PLATES

- Base plates larger than 1 m^2: Make 25 mm diameter holes as necessary for pressure grouting, escape of entrapped air or direct compaction of filling/ bedding material.

225 STEELWORK TO BE GALVANIZED

- Cutting, drilling and shop welding: Complete before galvanizing.
- Vent and drain holes: Provide as necessary.
  - Locations: Submit proposals.
  - Sealing: Not Required.

WELDING

250 WELDING PROCEDURES

- Quality management systems: To BS EN ISO 3834-3.
- Certification of welders: Required.
  - Third party certification: To BS EN ISO 9606-1.
  - Verification of welding procedures: Submit.

  - Welding procedure qualification records: To BS EN ISO 15614-1.
- Special welding procedures: None.
  - Location: NA.
  - Requirement: NA.

255 SITE WELDING

- Usage: Permitted only where indicated on drawings.
- Working conditions: Suitable and safe. Do not weld when surfaces are wet or when ambient temperature is below 0˚C.

270 ADDITIONAL WELDS

- Welds (including tack welds) not indicated on drawings: Not permitted without approval.

280 SHEAR CONNECTORS

- Certification: Provide European Technical Assessment (ETA) with CE marking and a Declaration of Performance (DoP).
- Connector type: Headed stud shear connectors (SD).
  - Size/ spacing: As drawing.
- Welding method: Drawn arc stud welding.
- Procedure trials: Not required.
- Other requirements: None.

BOLT ASSEMBLIES

302 NON-PRELOADED BOLT ASSEMBLIES

- Certification: Provide European Technical Assessment (ETA) with CE marking and a Declaration of Performance (DoP).
- Designation: Hexagon head bolts to BS EN ISO 4014, grade A.
  - Threading: To suit design criteria.
- Nuts and washers: To suit property class of bolt, as NSSS, clause 2.4.4.
- Coating applied by manufacturer: Sherardized.
- Other requirements: Min, 2No. bolts per connection.

305 PROPRIETARY ANCHORS ALL

- Manufacturer: Submit proposals.
  - Product reference: Submit proposals.
- Certification: Provide European Technical Assessment (ETA) with CE marking and a Declaration of Performance (DoP).
- Anchor type: Bonded anchor.
- Material: Carbon steel.

335 SPRING WASHERS

- Standard: To BS 4464.

375 SHERARDIZED COATING TO BOLT ASSEMBLIES

- Standard: To BS 7371-8.
  - Class: 15.
- Sherardizing: Applied by fastener manufacturer and passivated.
- Post treatment: Zinc phosphate (passivated).
- Use/location: All shop and site connections in shop painted steelwork.

ERECTION

405 OUTLINE METHOD OF ERECTION

- Documentation: Provide Erection method statement in accordance with NSSS. Method to ensure the temporary stability of the steel frame during erection until such time that all permanent vertical and plan bracing is installed.

410 PRE-ERECTION CHECKS

- Scope: At least 7 days before proposed erection start date, check the following:
  - Foundations and other structures to which steelwork will be attached: Accuracy of setting out.
  - Holding down bolts: Position, protruding length, slackness and condition.
- Inaccuracies and defects: Report without delay.
- Permission to commence erection: Obtain.

420 SETTING OUT

- Permissible deviations: In addition to the requirements of the NSSS, add permissible deviations for different types of dimension and locations, as necessary.

425 MODIFICATIONS

- Steelwork: Do not modify without approval.
- Temporary fabrication/ erection attachments: May remain when they will not interfere with subsequent work, and will be completely hidden by finishes; otherwise, remove

432 TEMPORARY SUPPORT

- Permanent bracing system:
  - Vertical: Steel cross bracing and concrete core as detailed.
  - Horizontal: metal deck slabs with insitu concrete.
- Temporary bracing/ restraints: Provide as necessary until permanent bracing system is complete and sufficiently mature to carry loads and all connections have been made to the permanent system.

- Elements to be supported: ALL.
- Bracing/ Restraints: Provide as necessary until permanent connection can be made to roof and stanchions.
- Forces and moments in temporary supports: Make an independent assessment.

440 COLUMN BASES - REFER TO CIVIC DRAWINGS FOR MINIMUM BASE SIZES

- Levels: Adjust using steel shims or folding wedges no larger than necessary.
- Location of shims/ wedges: Position symmetrically around perimeter of base plate. Do not use a single central pack.
- Give notice: If space beneath any column base is outside specified limits for bedding thickness.
- Accuracy of erection: Check, and correct errors before filling and bedding beneath bases and carrying out other adjacent work.

441 MORTAR FILLING/ BEDDING OF COLUMN BASES

- Mortar:
  - Cement: Portland cement BS EN 197-1 - CEM I 42.5 or 52.5.
    Certification: Provide European Technical Assessment (ETA) with CE marking and a Declaration of Performance (DoP).
  - Fine aggregate: To BS EN 12620, grade 0/4 or 0/2 (MP).
  - Additives: None required.
- Bedding thickness range: 25mm - 40mm.
- Bolt pockets: Completely filled with neat cement slurry.
- Spaces beneath base plates: Completely filled as follows:
  - Spaces 0-25 mm deep: Neat Portland cement, CEM 1.
  - Spaces 25-50 mm deep: 1:1 cement:fine aggregate mortar, just fluid enough to pour. Tamped well as filling proceeds.
  - Spaces 50 mm and above: 1:2 cement:fine aggregate mortar, just damp, tamped well against properly fixed supports as filling proceeds.

PROTECTIVE COATINGS

521 ALTERNATIVE MANUFACTURERS

- Short list of manufacturers: Obtain coating materials from one only of the following: Sherwin Williams OR SIMILAR AGREED.
- Selected manufacturer: Submit details before ordering materials.

523 COMPATIBILITY OF SHOP PRIMER WITH SITE APPLIED INTUMESCENT COATING

- Intumescent coating: M61/ 110.
- Primer: Compatible with coating under general and fire conditions.
- Manufacturer's recommendations and test evidence: Submit before priming. Include fire test data to BS 476-20 and -21, or BS EN 1363-1 and BS EN 1365-2, -3, and/or -4 as
- appropriate.

535 INSPECTION OF COATING WORK

- Work in progress: Permit coating manufacturer to inspect and take samples of products.
- Notice: Give notice of dates for:
  - Start of surface preparation and coating.
  - Coated members or components leaving the works.
  - Period of notice (minimum): 5 working days.

PROTECTIVE COATING SYSTEMS

620 GALVANIZING TO BLAST CLEANED STEEL

- Use/ location: External.
- Preparation: Blast cleaning to BS EN ISO 8501-1, preparation grade Sa2½ using chilled angular iron grit grade G24 to give a coarse surface profile, followed by chemical cleaning.
- Galvanizing: To BS EN ISO 1461.
  - Minimum mean coating thickness: 140 micrometres.

638 SHOP PRIMING FOR INTUMESCENT COATING SYSTEM M61/110

- Use/ location: All steelwork noted as receiving intumescent paint by the Architect.
- Shop preparation:
  - Generally: Blast cleaning to BS EN ISO 8501-1, preparation grade Sa 2½.
  - Welds/ edges/ areas with surface imperfections: To BS EN ISO 8501-3, preparation grade P1.
- Primer: Two pack epoxy.
  - Manufacturer: Submit proposals.
    Product reference: Submit proposals.
  - Dry film thickness: as required for corrosivity class outlined in 643.
- Special requirements: None.

643 PROTECTIVE PAINTING TO EXPOSED INTERNAL STEELWORK

- Use/ location: ALL INTERNAL STEELWORK.
- Paint manufacturer: As clause 521.
- Shop preparation:
  - Generally: Blast cleaning to BS EN ISO 8501-1, preparation grade Sa 2½.
  - Welds/ edges/ areas with surface imperfections: BS EN ISO 8501-3, preparation grade P1.
- Corrosion protection:
  - Standard: To BS EN ISO 12944-1.
  - Corrosivity category: C2.
  - Durability range: H.
- System Number: Submit proposals.
- Other requirements: Apply all coats in shop. Contractor to provide options for paint systems to achieve life to first major maintenance of 15 to 25 years.

PREPARATION FOR PAINTING

710 OFFSITE PREPARATION AND PAINTING

- Working area: Covered and properly lit, heated and ventilated.
- Sequence of working: Select from the following and submit proposals:
  - Fabricate, blast clean, prime.
  - Blast clean, fabricate, remove flash rust with a light overall sweep blast, prime.
  - Blast clean, apply weldable prefabrication primer, fabricate, prime.
- Prefabrication primer (option 3): Type recommended by manufacturer of post fabrication primer.
  - Thickness of post fabrication primer coat: May be reduced if and as recommended by manufacturer.
- Surfaces inaccessible after assembly: Apply full treatment and coating system including, if necessary, local application of site coatings.

725 MANUAL CLEANING OF NEW STEELWORK

- Preparation: Remove fins, burrs, sharp edges, weld spatter, loose rust and loose scale.
- Surface finish: Clean but unpolished to BS EN ISO 8501-1, grade St 2.
- Finishing: Thoroughly degrease and clean down. Remove any consequent rusting back to grade St 2. Prime without delay.

730 PREPARATION FOR SITE WELDING OF SHOP PAINTED STEELWORK

- Method: Select from the following:
  - Mask weld areas immediately after blast cleaning and before coating steelwork. If paint system comprises more than one coat, step each coat 30 mm back from edge of preceding coat and away from masked areas. Remove masking immediately before welding.
  - Prepare and paint steelwork including weld areas. Grind off to bare steel around each weld area immediately before welding.

735 TREATMENT OF SITE WELDED JOINTS IN PAINTED STEELWORK

- Preparation: After welding, and without delay, remove scale and weld spatter from weld areas. Remove traces of rust. Wash with clean water and allow to dry. Prime without delay.
- Protective/ Decorative coatings: Apply to weld areas to match surrounding painted areas.

736 TREATMENT OF SITE WELDED JOINTS IN GALVANIZED STEELWORK

- Preparation: After welding, and without delay, remove scale and weld spatter from weld areas. Remove traces of rust. Wash with clean water and allow to dry.
- Coating: Reinstate using one of the methods given in BS EN ISO 1461, clause 6.3.

740 BOLTED JOINTS (OTHER THAN PRELOADED JOINTS)

- Steelwork to be shop painted: Apply full shop specification to joint faces.

- Steelwork to be erected with mill finish then site painted: Before erection, prepare and prime joint faces and allow to dry.
- Bolted joints in externally exposed steelwork:
  - Immediately before assembling, apply a further coat of primer and bring surfaces together while still wet.
  - After assembling and before applying site coatings, seal crevices to bolts and joint perimeters with a compatible sealant.

745 FAYING SURFACES OF PRELOADED JOINTS

- Protection: Immediately after blast cleaning and before coating surrounding areas, mask faying surfaces to protect from contamination and deterioration.
  - Paint systems comprising more than one coat: Step each coat 30 mm back from edge of preceding coat and away from masked areas.
- Removal of protection: Immediately before bolting, remove masking. Check faying surfaces are free from adhesive. Clean with solvent if necessary.

750 PRELOADED JOINTS IN SHOP PAINTED STEELWORK

- Post assembly treatment of bolts and surrounding areas: After final tightening of bolts and inspection of joints:
  - Thoroughly degrease and clean uncoated areas including bolts.
  - Prime without delay.
  - Apply full shop coating specification.
- Direct tension indicators: Seal measuring gap to prevent ingress of moisture.

755 UNCOATED FASTENERS

- Treatment: After steelwork erection and before applying site coatings, thoroughly degrease and clean. Without delay, coat to match adjacent shop painted areas.

760 GALVANIZED FASTENERS

- Treatment: After steelwork erection and before applying site coatings, thoroughly degrease and clean. Etch prime.

765 SITE PREPARATION OF SHOP PAINTED STEELWORK

- Preparation: Touch in shop coats, as necessary, and allow to dry. Before applying site coats (when specified), abrade surfaces or wash down or both, as recommended by paint manufacturer.

770 SITE PREPARATION OF GALVANIZED SURFACES FOR PAINTING

- Preparation: Thoroughly degrease. Remove white corrosion products. Wash off and allow to dry before applying etching wash or primer.

PAINTING

810 ENVIRONMENTAL CONDITIONS

- General requirements prior to starting coating work:
  - Surfaces: Unaffected by moisture or frost.
  - Steel temperature: At least 3°C above dew point, with conditions stable or improving, and not high enough to cause blistering or wrinkling of the coating.
  - Relative humidity: Below 85%.

815 COATINGS

- Surfaces to be coated: Clean, dust free and suitably dry. Previous coats to be adequately cured.
- Multiple coats of same material: Use different tints to assist checking of complete coverage.
- Penultimate coat: Colour recommended by paint manufacturer to suit topcoat colour.
- Finish required: Smooth and even, of uniform thickness and colour, free from defects.

820 FILM THICKNESS

- Wet film thickness: During application, check thickness of each coat with a wheel or comb gauge used in accordance with BS EN ISO 2808.
- Accumulated dry film thickness: After each coat has dried, check total accumulated film thickness.
  - Method: Magnetic or electromagnetic meter.
  - Number and position of measurements: As directed.
  - Validation: Measurements to be independently witnessed.
  - Meter calibration: Check against standard shims and recalibrate regularly against a smooth steel reference plate.
- Average dry film thickness:
  - At least specified thickness over any square metre.
  - No reading to be less than 75% of specified thickness.
- Topcoat dry film thickness: Sufficient to give an even, solid, opaque appearance.

Civic Engineers

Manchester

Carver's Warehouse
77 Dale Street
Manchester M1 2HG

+44 (0)161 228 6757

London

Reeds Wharf
33 Mill Street
London SE1 2AX

+44 (0)20 7253 2977

Leeds

Unit 02/01 Tower Works
Globe Road
Leeds LS11 5QG

+44 (0)113 2025 130

Glasgow

Gresham Chambers
45 West Nile Street
Glasgow G1 2PT

+44 (0)141 370 1829

civicengineers.com

Civic Engineers

Job Title

Campfield Markets

Report Type

G30 Specification - Metal profiled sheet decking

Prepared for

Allied London

Date

30 November 2023

G30 Specification - Metal profiled sheet decking

Prepared by	**Callum Wilson**
Reviewed by	Richard Dowdall
Civic Job No.	2302
Issued	30/11/2023 – P01
Revised	

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G30 Metal profiled sheet decking

To be read with Preliminaries/ General conditions.

PROPRIETARY SPECIFIED ROOF/ FLOOR DECKING

110B METAL PROFILED SHEET DECKING FOR COMPOSITE SLABS AND COMPOSITE INFILL SLABS AND CONCRETE ROOF GENERALLY

- Manufacturer: SMD or similar approved - refer to Structural Engineers drawings. Final design and selection by specialist supplier to CA approval
- Product reference: Refer to Structural Engineers drawings
- Material: S350GD+Z275 (275g/m2 zinc coating)
- **Thickness (nominal): 1.2mm**
- Soffit finish: None.
- End laps (minimum): 150mm
- Configuration: Standard end lap.
- Supporting structure: Primary steel structure, refer to structural engineers drawings.
- Accessories: Proprietary edge trims & restraint straps and profile fillers as clause 240 to manufacturer's recommendations.

PERFORMANCE SPECIFIED ROOF/ FLOOR DECKING

160 STRUCTURAL DESIGN OF FLOOR DECKING

- Scope of Contractor's design: Proprietary deck design, construction load design and propping requirements.
- Requirement: Determine structural sizes necessary to support specified loads without damage or undue deflection (in temporary and permanent conditions).
- Additional requirements: None .
- Design standard: BS EN 1994 .
- Supporting structure: Structural steel members – see CIVIC drawings.
- Dead loads: In accordance with BS EN 1991.
- Imposed floor loads:
    - Standard: In accordance with BS EN 1991.
    - Type of activity/ occupancy: See CIVIC loading diagram drawings.
    - Other floor loads: See CIVIC loading diagram drawings.
    - Partition loads: See CIVIC loading diagram drawings.
    - Service loads: See CIVIC loading diagram drawings.
    - Diaphragm loads: See CIVIC loading diagram drawings.

FIXING DECKING

210Y STRUCTURE: Check that structure is in a suitable state to receive decking before commencing fixing. Subcontractor must confirm acceptance to Main Contractor and CA.

G30/220 PAINTING STRUCTURE

- Sequence: Before the decking is attached paint surfaces of supporting structure that will be subsequently inaccessible.

230 PREVENTION OF ELECTROLYTIC ACTION

- Isolating tape: Type recommended by decking manufacturer.
- Location: To contact surfaces of supports and sheets of dissimilar metals.

240 FIRE RESISTING PROFILE FILLERS

- Supplier: Decking manufacturer.
- Type/ shape: To match decking profile void.
- Location: As necessary to ensure specified fire rating is maintained
- Fixing: Fit securely, as recommended by manufacturer, to form fire compartment.

260 FIXING DECKING GENERALLY

- Cut sheets: Clean edges with true lines and no burrs.
    - Treatment of edges: As recommended by manufacturer
- Penetrations: Cut openings to the minimum size necessary.
    - Reinforce edges with [As recommended by manufacturer]
    - Fixings: Drill all holes.
    - Cleanliness: Remove debris from within decking construction.
    - Installation: Seams and ribs of deck must be parallel, with no damage to deck coating.

280 ATTACHMENT OF DECKING

- Primary deck fasteners: Contractor to propose
- Number of fasteners per sheet width at each support: To manufacturer's specification
- Fastener locations: Valleys of profile.
- Side lap stitching fasteners: To manufacturer's specification
- Fastener centres (maximum): To manufacturer's specification
- Fastener locations: Valleys of profile.
- End lap stitching fasteners: To manufacturer's specification
- Fastener locations in standard end laps: Each valley of profile.
- Fastener locations in non standard end laps: One web of each trough of profile.

290 COLD FORMED METAL ACCESSORIES *AS RECOMMENDED BY MANUFACTURER*

- Profile: Submit proposals in accordance with manufacturer's requirements.
- Material: Submit proposals in accordance with manufacturer's requirements.

- Finish/ Colour: Galvanised Z275 minimum.
- Workmanship: As section Z11.
- Method of attachment: Submit proposals in accordance with manufacturer's requirements.
- Supporting structure: Primary structure and perimeter steel shelf angles, refer to structural drawings.
- Fasteners: Submit proposals in accordance with manufacturer's requirements.

Civic Engineers

Manchester

Carver's Warehouse
77 Dale Street
Manchester M1 2HG

+44 (0)161 228 6757

London

Reeds Wharf
33 Mill Street
London SE1 2AX

+44 (0)20 7253 2977

Leeds

Unit 02/01 Tower Works
Globe Road
Leeds LS11 5QG

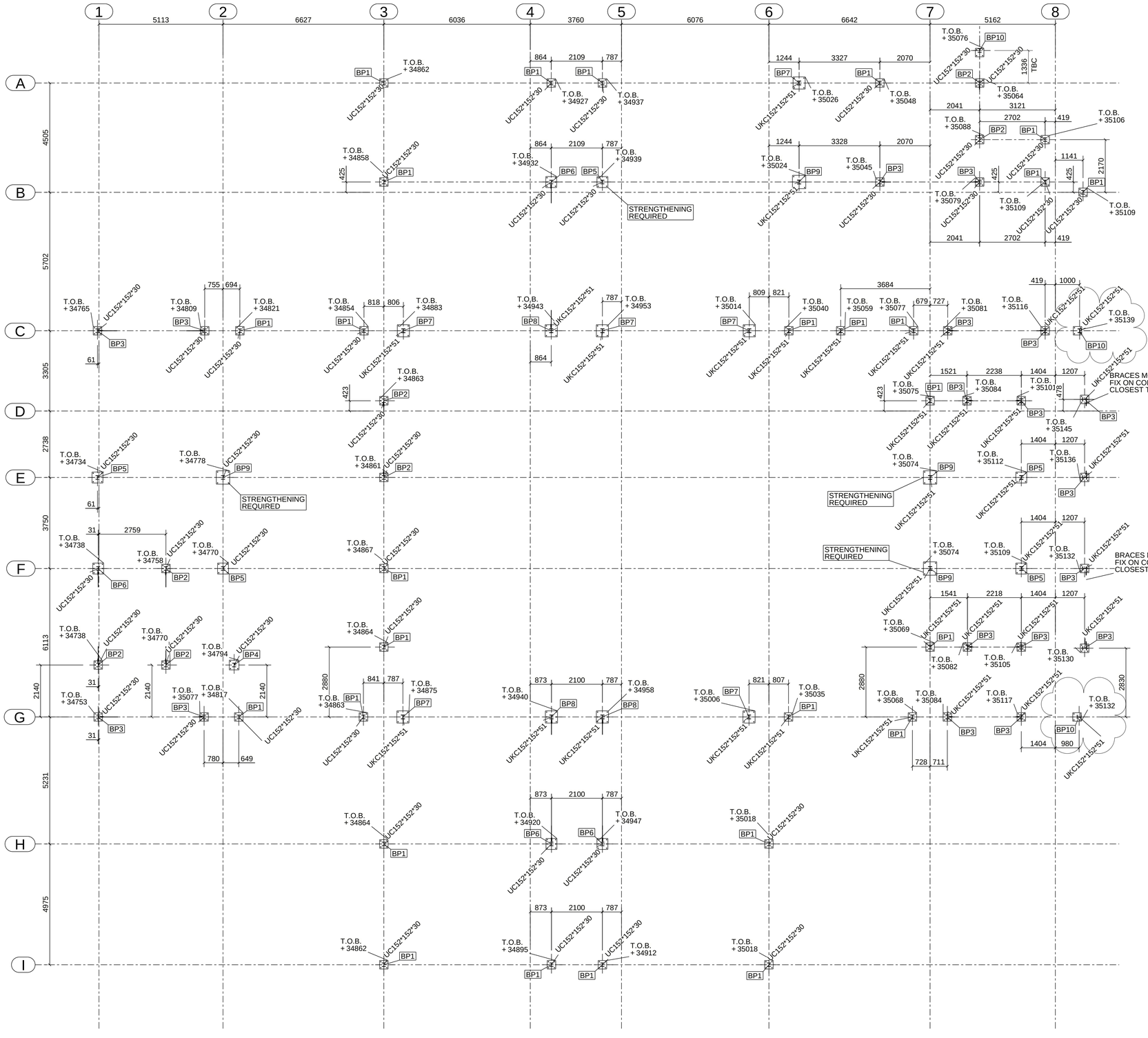
+44 (0)113 2025 130

Glasgow

Gresham Chambers
45 West Nile Street
Glasgow G1 2PT

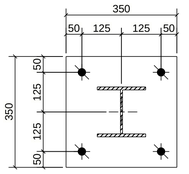
+44 (0)141 370 1829

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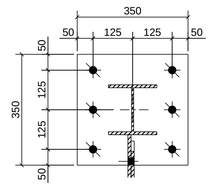
FOUNDATION PLAN

BASEPLATE TYPE BP1



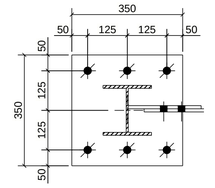
BASEPLATE 350 x 350 x 20 THICK
4No. 26 DIA CSK HOLES
FOR M16 CSK EASYFIX ANCHOR
6mm FPFW
GROUT TO SUIT GAP
BETWEEN U/S PLATE
& TOP OF EXTG CONCRETE

BASEPLATE TYPE BP2



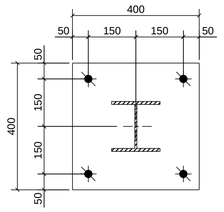
BASEPLATE 350 x 350 x 20 THICK
6No. 26 DIA CSK HOLES
FOR M16 CSK EASYFIX ANCHOR
6mm FPFW
GROUT TO SUIT GAP
BETWEEN U/S PLATE
& TOP OF EXTG CONCRETE

BASEPLATE TYPE BP3



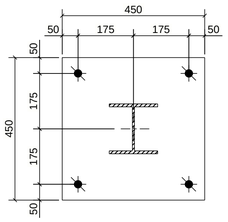
BASEPLATE 350 x 350 x 20 THICK
6No. 26 DIA CSK HOLES
FOR M16 CSK EASYFIX ANCHOR
6mm FPFW
GROUT TO SUIT GAP
BETWEEN U/S PLATE
& TOP OF EXTG CONCRETE

BASEPLATE TYPE BP4



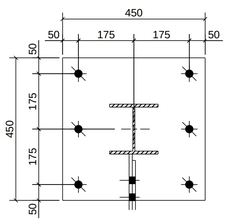
BASEPLATE 400 x 400 x 20 THICK
4No. 26 DIA CSK HOLES
FOR M16 CSK EASYFIX ANCHOR
6mm FPFW
GROUT TO SUIT GAP
BETWEEN U/S PLATE
& TOP OF EXTG CONCRETE

BASEPLATE TYPE BP5



BASEPLATE 450 x 450 x 20 THICK
4No. 26 DIA CSK HOLES
FOR M16 CSK EASYFIX ANCHOR
6mm FPFW
GROUT TO SUIT GAP
BETWEEN U/S PLATE
& TOP OF EXTG CONCRETE

BASEPLATE TYPE BP6



BASEPLATE 450 x 450 x 20 THICK
6No. 26 DIA CSK HOLES
FOR M16 CSK EASYFIX ANCHOR
6mm FPFW
GROUT TO SUIT GAP
BETWEEN U/S PLATE
& TOP OF EXTG CONCRETE

BASEPLATE TYPE BP7

BASEPLATE 500 x 500 x 20 THICK
4No. 26 DIA CSK HOLES
FOR M16 CSK EASYFIX ANCHOR
6mm FPFW
GROUT TO SUIT GAP
BETWEEN U/S PLATE
& TOP OF EXTG CONCRETE

BASEPLATE TYPE BP8

BASEPLATE 500 x 500 x 20 THICK
6No. 26 DIA CSK HOLES
FOR M16 CSK EASYFIX ANCHOR
6mm FPFW
GROUT TO SUIT GAP
BETWEEN U/S PLATE
& TOP OF EXTG CONCRETE

BASEPLATE TYPE BP9

BASEPLATE 550 x 550 x 20 THICK
4No. 26 DIA CSK HOLES
FOR M16 CSK EASYFIX ANCHOR
6mm FPFW
GROUT TO SUIT GAP
BETWEEN U/S PLATE
& TOP OF EXTG CONCRETE

BASEPLATE TYPE BP10

BASEPLATE 350 x 350 x 20 THICK
4No. 26 DIA CSK HOLES
FOR M16 CSK EASYFIX ANCHOR
6mm FPFW
GROUT TO SUIT GAP
BETWEEN U/S PLATE
& TOP OF EXTG CONCRETE

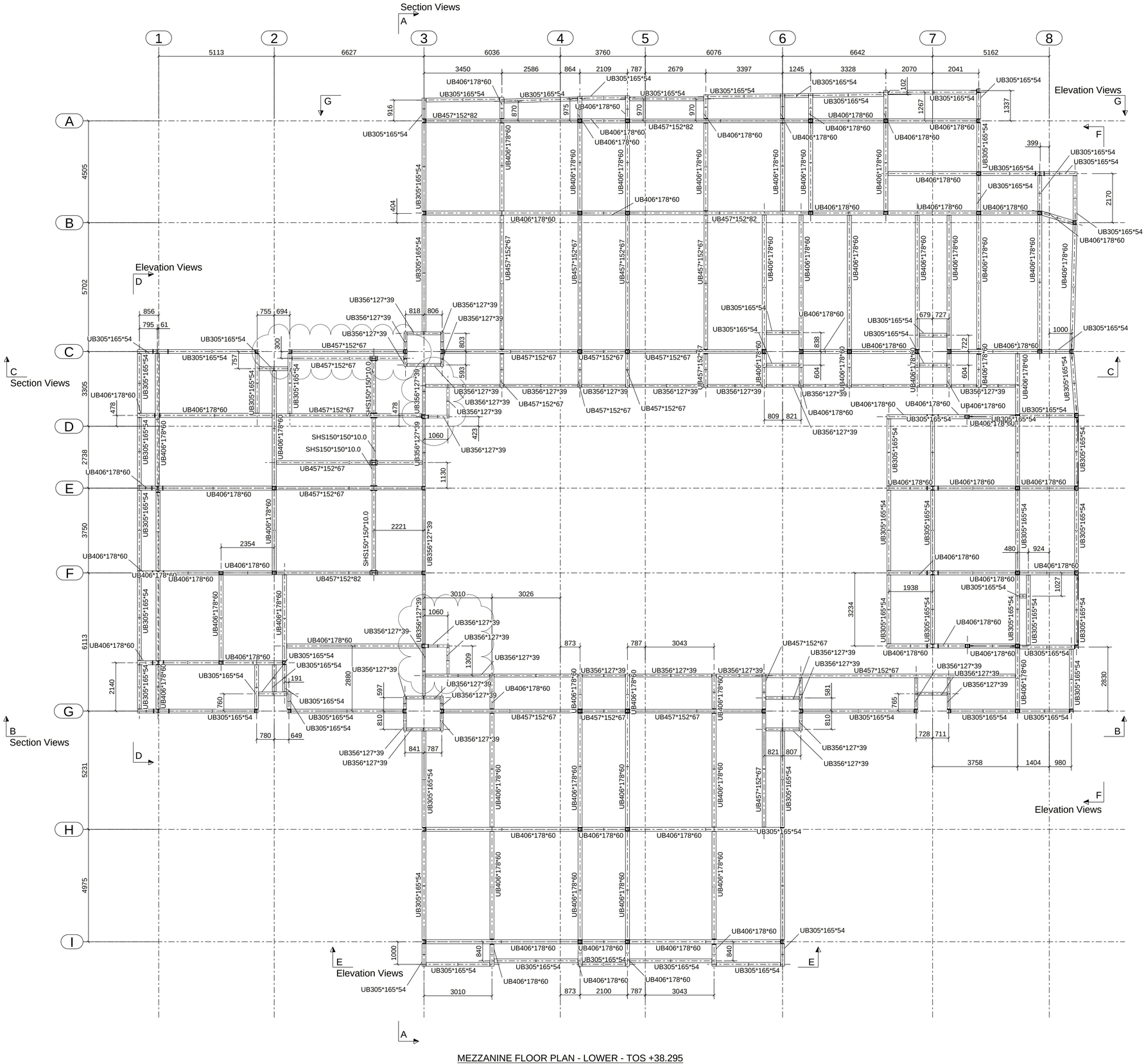
Revision	Description	Date
C02	Baseplates on grid C & G changed to BP10. Construction Issue.	21.08.2024
C01	Updated as clouded. Construction Issue.	16.08.2024
P06	Updated to suit new baseplate design. Preliminary issue.	14.08.2024
P05	Updated to suit comments, base fixings revised. Preliminary issue.	09.08.2024
P04	Updated to suit latest Civic comments. Preliminary issue.	07.08.2024
P03	Updated to suit latest Civic comments. Preliminary issue.	24.07.2024
P02	Updated to suit latest Civic drawings/IFC. Preliminary issue.	23.07.2024
P01	Issued for comment. Preliminary issue.	11.07.2024

Trueline Steel Structures Ltd.
Bromsgrove Enterprise Park
Isidore Road
Bromsgrove
B60 3ET
tel 01527 834 603
www.true-line.co.uk
info@true-line.co.uk
TRUELINE STEEL STRUCTURES

Client	TJM Projects
Project	Upper Campfield Market
Site	Upper Campfield
Description	Foundation Plan
Status	**CONSTRUCTION**

Drawn By	RL	Scale	Contract No.	Drawing No.	Rev
Checked By	MM	NTS	T3385	GA-001	C02
Date	10/07/24				

Tekla Structures



MEZZANINE FLOOR PLAN - LOWER - TOS +38.295

C02	Steel added. Construction Issue.	04.09.2024
C01	Construction Issue.	16.08.2024
P05	Updated to suit latest Civic comments. Preliminary issue.	09.08.2024
P04	Updated to suit latest Civic comments. Preliminary issue.	07.08.2024
P03	Updated to suit latest Civic comments. Preliminary issue.	24.07.2024
P02	Updated to suit latest Civic drawings/IFC. Preliminary issue.	23.07.2024
P01	Issued for comment. Preliminary issue.	11.07.2024
Revision	Description	Date

Trueline Steel Structures Ltd.

Bromsgrove Enterprise Park
Isidore Road
Bromsgrove
B60 3ET

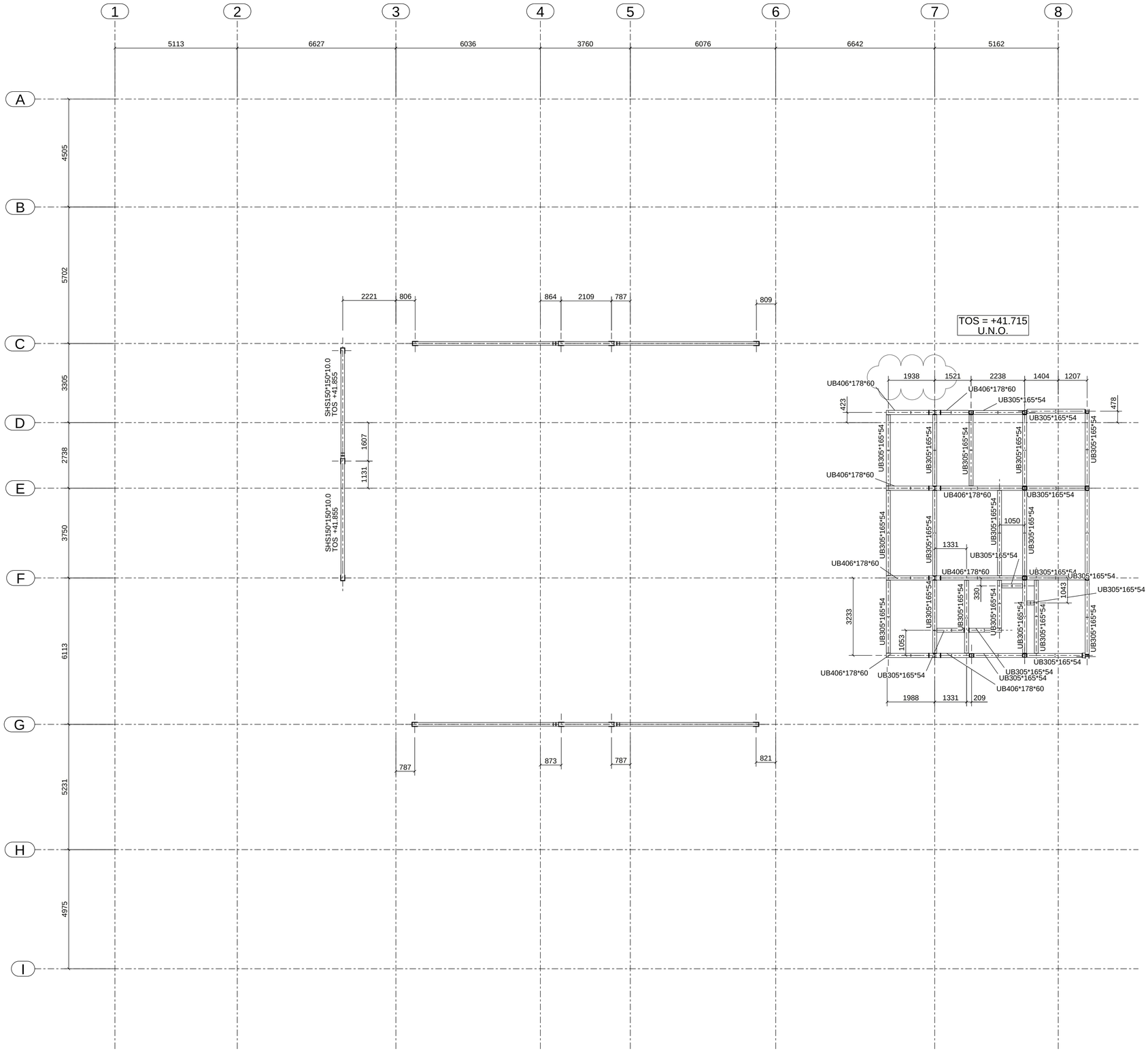
tel 01527 834 603

www.true-line.co.uk
info@true-line.co.uk

Client	TJM Projects
Project	Upper Campfield Market
Site	Upper Campfield
Description	Plan at Mezzanine Floor Level - Lower
Status	**CONSTRUCTION**

Drawn By	RL	Scale	Contract No.	Drawing No.	Rev
Checked By	MM	NTS	T3385	GA-002	C02
Date	11/07/24				

Tekla Structures



MEZZANINE FLOOR PLAN - UPPER

Revision	Description	Date
C03	Beam moved to suit lower mezz. Construction Issue.	27.08.2024
C02	Steel level and beam arrangements changed. Construction Issue.	22.08.2024
C01	Construction Issue.	16.08.2024
P02	Updated to suit latest Civic drawings/IFC. Preliminary issue.	23.07.2024
P01	Issued for comment. Preliminary issue.	11.07.2024

Trueline Steel Structures Ltd.

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Bromsgrove
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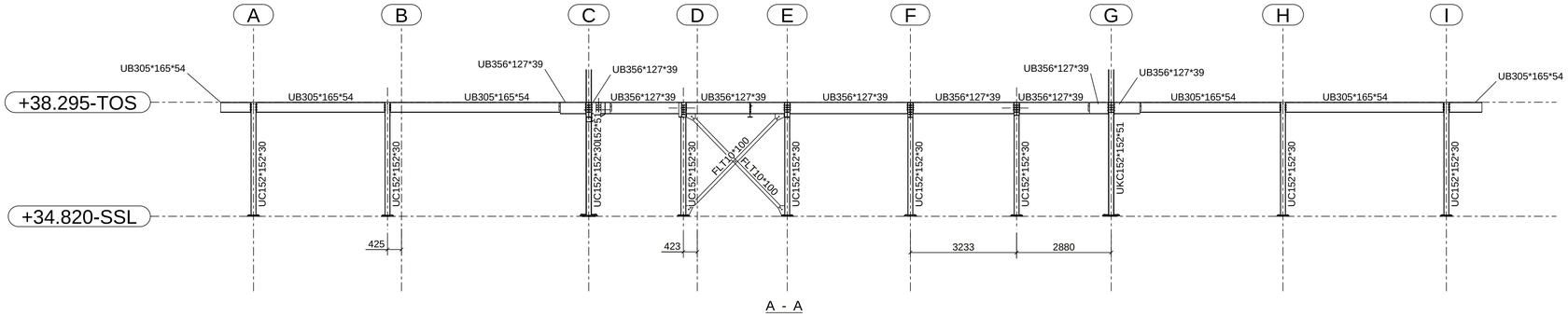
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info@true-line.co.uk

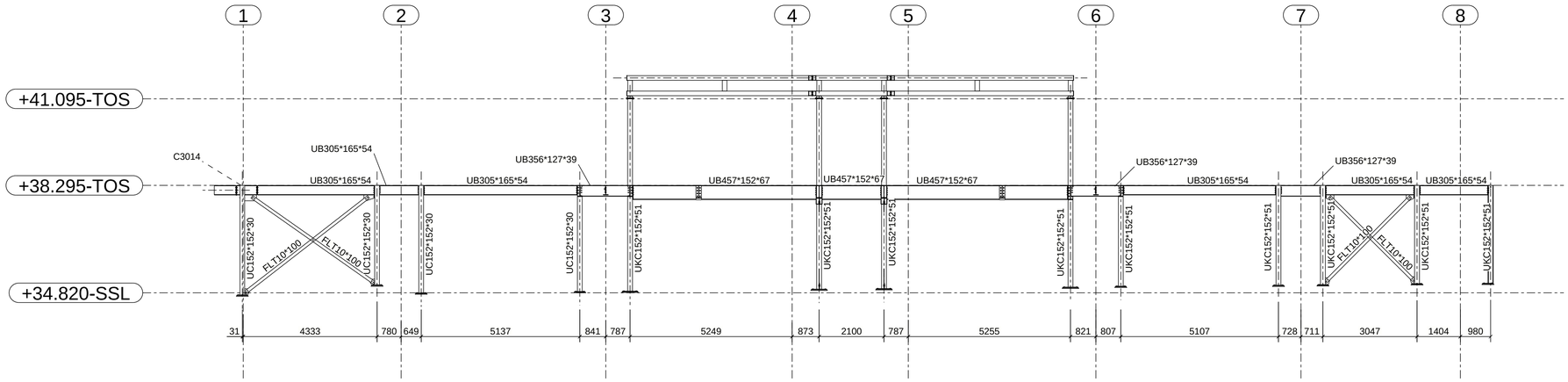
Client	TJM Projects
Project	Upper Campfield Market
Site	Upper Campfield
Description	Plan at Mezzanine Floor Level - Upper
Status	**CONSTRUCTION**

Drawn By	RL	**Scale**	**Contract No.**	**Drawing No.**	**Rev**
Checked By	MM	**NTS**	T3385	GA-003	C03
Date	11/07/24				

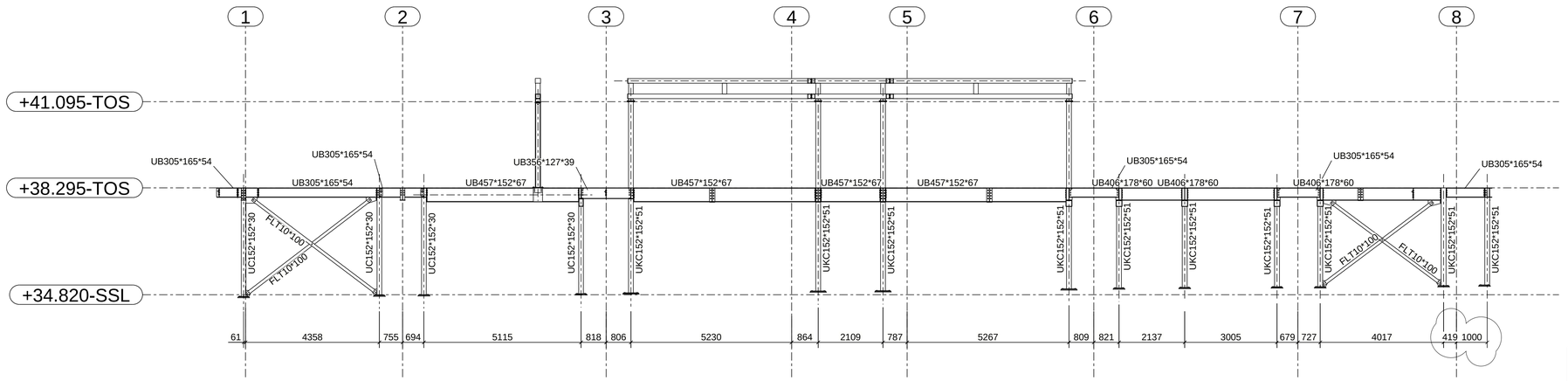
Tekla Structures



A - A



B - B



C - C

C01	Construction Issue.	16.08.2024
P03	Updated to suit latest Civic comments. Preliminary issue.	07.08.2024
P02	Updated to suit latest Civic drawings/IFC. Preliminary issue.	23.07.2024
P01	Issued for comment. Preliminary issue.	11.07.2024
Revision	Description	Date

Trueline Steel Structures Ltd.

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Bromsgrove
B60 3ET

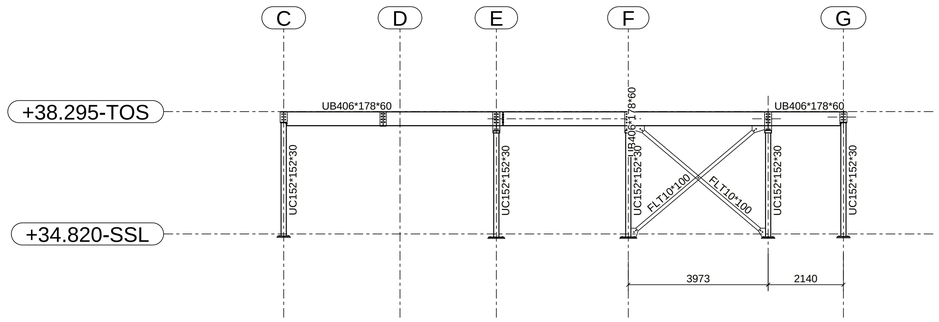
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info@true-line.co.uk

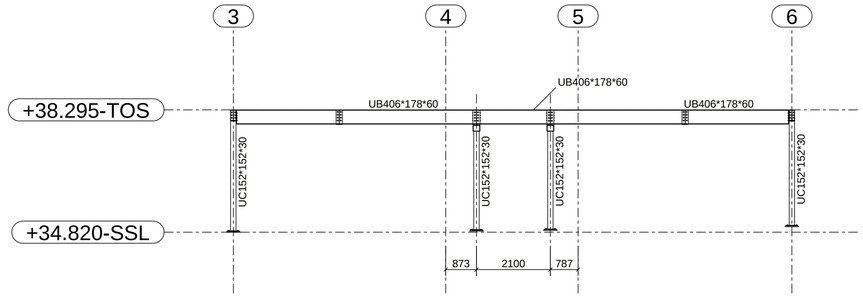
TRUELINE STEEL STRUCTURES

Client	TJM Projects				
Project	Upper Campfield Market				
Site	Upper Campfield				
Description	Section Views				
Status	**CONSTRUCTION**				
Drawn By	RL	Scale	Contract No.	Drawing No.	Rev
Checked By	MM	NTS	T3385	GA-004	C01
Date	11/07/24				

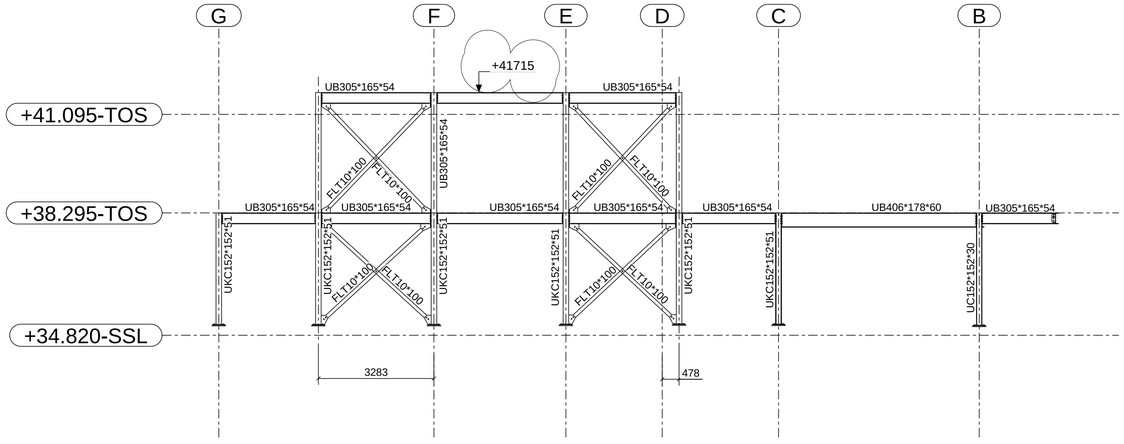
Tekla Structures



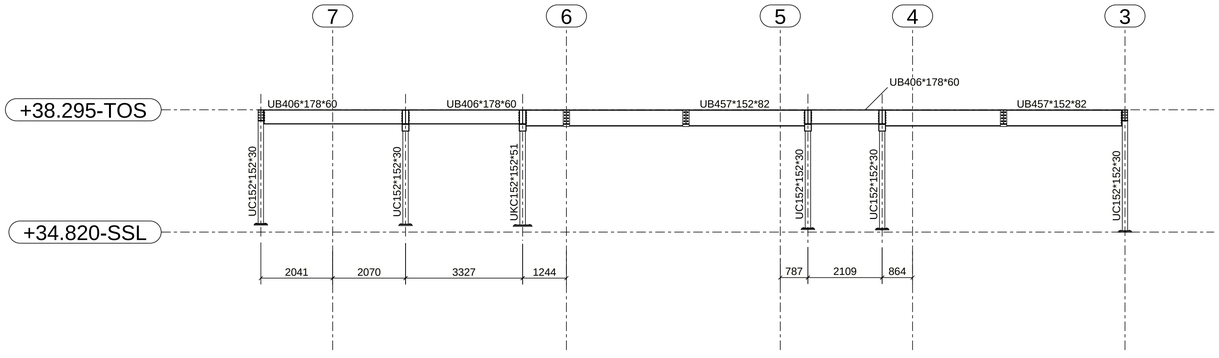
D - D



E - E



F - F



G - G

Revision	Description	Date
C02	Upper mezz steel level changed. Construction Issue.	22.08.2024
C01	Construction Issue.	16.08.2024
P03	Updated to suit latest Civic comments. Preliminary issue.	07.08.2024
P02	Updated to suit latest Civic drawings/IFC. Preliminary issue.	23.07.2024
P01	Issued for comment. Preliminary issue.	11.07.2024

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Isidore Road
Bromsgrove
B60 3ET

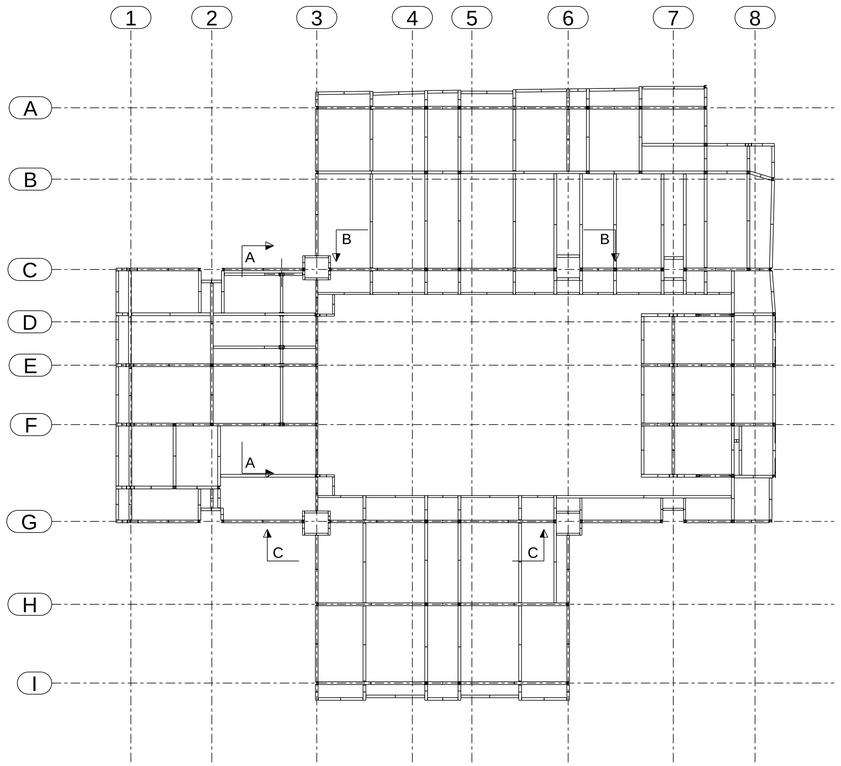
tel 01527 834 603

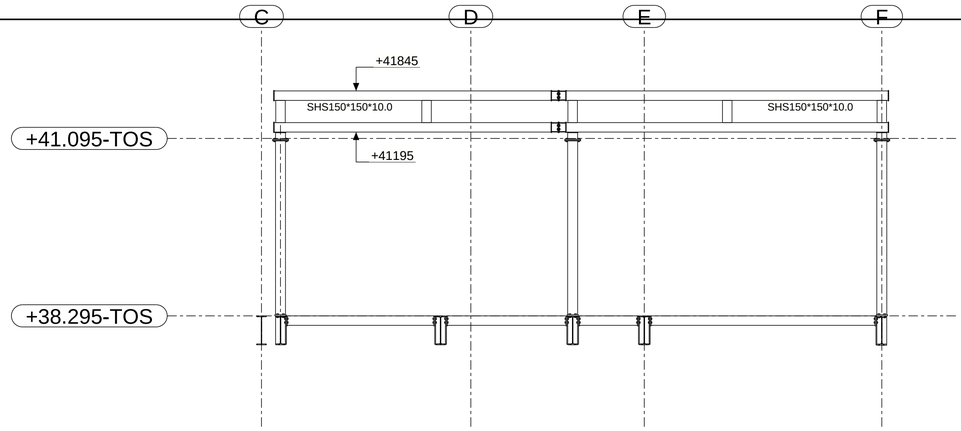
www.true-line.co.uk
info@true-line.co.uk

Client	TJM Projects
Project	Upper Campfield Market
Site	Upper Campfield
Description	Elevation Views
Status	**CONSTRUCTION**

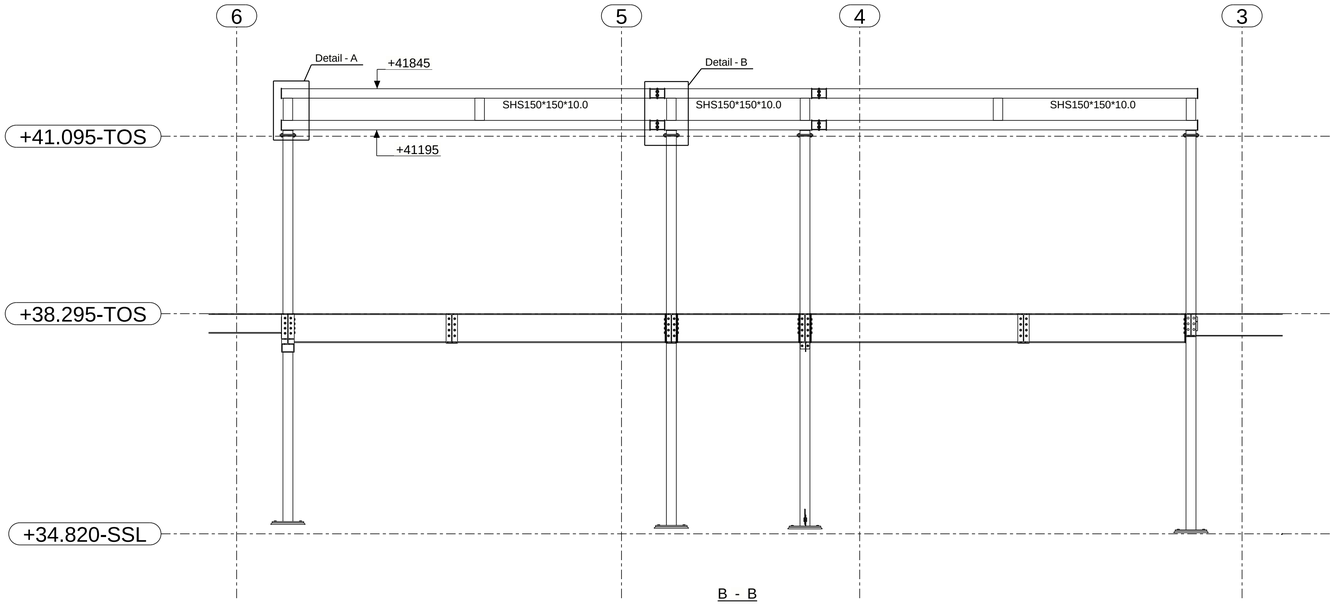
Drawn By	RL	Scale	Contract No.	Drawing No.	Rev
Checked By	MM	NTS	T3385	GA-005	C02
Date	11/07/24				

Tekla Structures

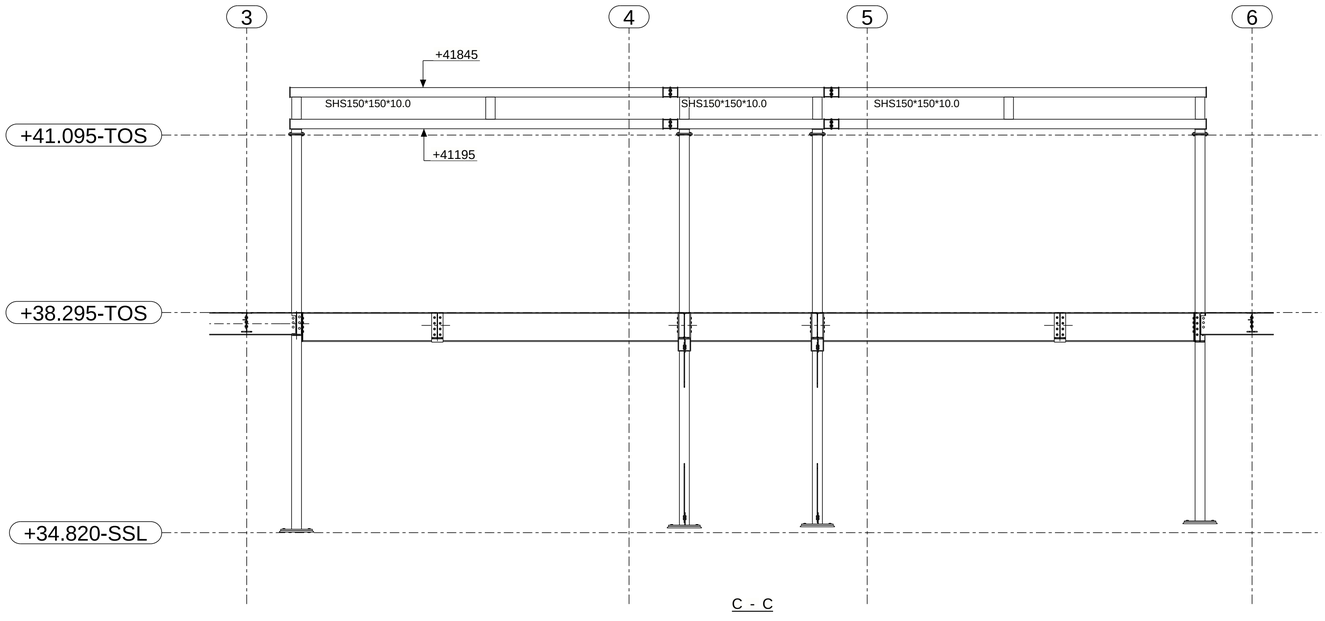




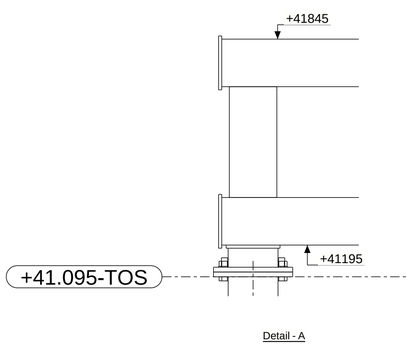
A - A



B - B

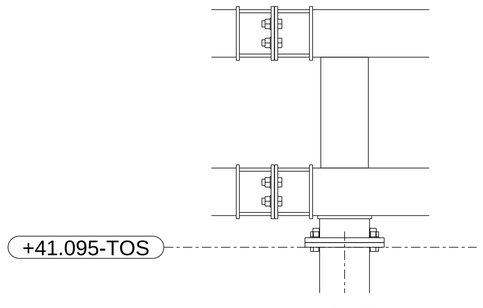


C - C



Detail - A

TYPICAL CONNECTIONS



Detail - B

Revision	Description	Date

Trueline Steel Structures Ltd.

Bromsgrove Enterprise Park
Isidore Road
Bromsgrove
B60 3ET

tel 01527 834 603

www.true-line.co.uk
info@true-line.co.uk

Client	TJM Projects
Project	Upper Campfield Market
Site	Upper Campfield
Description	Glazing Screen Elevations
Status	**CONSTRUCTION**

Drawn By	RL	Scale	Contract No.	Drawing No.	Rev
Checked By	MM	**NTS**	T3385	GA-007	
Date	04/09/24				

Tekla Structures

TOP FLANGES WHICH ARE TO BE STUDWELDED MUST NOT BE PRIMED OR PAINTED

SMD® STOCKYARDS
Stock Suppliers of Steel Decking Profiles

Please refer to GA02 for stud layout drawing.

Please refer to GA03 for enlarged detail drawing.

A	130 / 25 / 70	1.2mm 3m	H	130 / 25 / 300	2.0mm 3m
B	130 / 25 / 100	1.2mm 3m	J	130 / 25 / 350	2.0mm 3m
C	130 / 25 / 145	1.2mm 3m	K	130 / 25 / 400	2.0mm 3m
D	130 / 25 / 195	1.6mm 3m	L	130 / 25 / 425	2.0mm 3m
F	130 / 25 / 225	2.0mm 3m	M	130 / 25 / 450	1.2mm 3m
G	130 / 25 / 275	2.0mm 3m	N	130 / 25 / 675	2.0mm 3m

SMD drawing notes

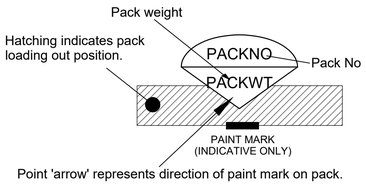
1 Profile Type TR60+/ 1.2 mm / S350

LOADING OUT: PLEASE NOTE:-

2 **Pack References**

Decking packs MUST be loaded out in accordance with SMD decking layout drawings. Packs are to be located in areas shown hatched on SMD decking GA (see below), unless advised otherwise by SMD Site Manager prior to delivery.

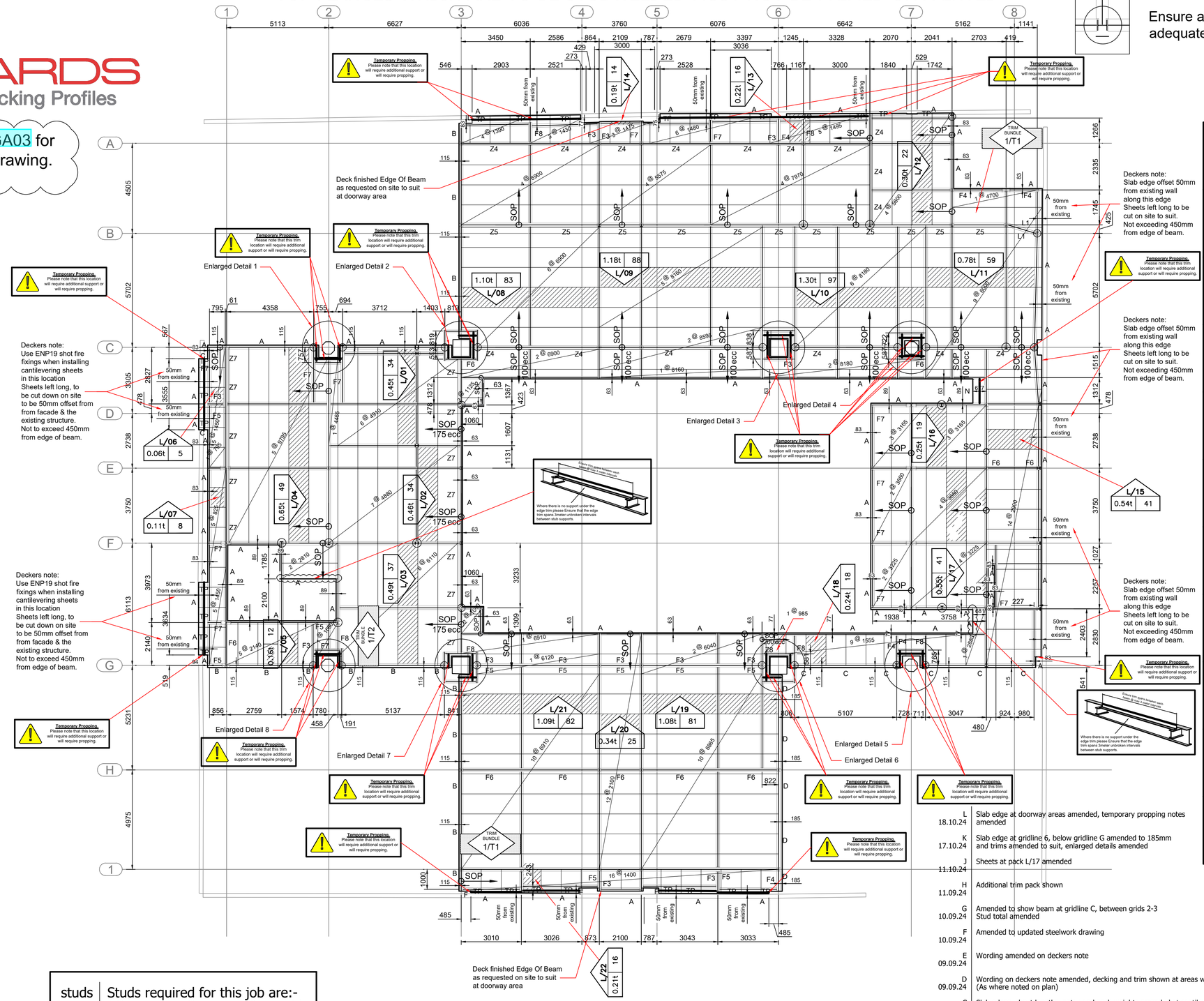
Deck Pack Reference Symbol



The colour of the paint mark on each pack represents the gauge of the decking:

Green	0.9mm gauge
Blue	1.0mm gauge
Red	1.2mm gauge

Due to the possibility of varying gauges on any one project, for health and safety reasons it is essential that all packs are loaded out in the positions indicated on SMD decking layout drawings, unless advised otherwise.



Ensure all circled columns have adequate deck support e.g. Plate

F3	50 / 75	1.2mm 3m
F4	50 / 100	1.2mm 3m
F5	50 / 125	1.2mm 3m
F6	50 / 150	1.2mm 3m
F7	50 / 175	1.2mm 3m
F8	50 / 200	1.2mm 3m
Z4	24 / 16 / 85	1.2mm 3m
Z5	24 / 16 / 110	1.2mm 3m
Z7	24 / 16 / 160	1.2mm 3m
Z8	24 / 16 / 185	1.2mm 3m
L1	75 / 95	1.2mm 3m

rev/date	revision
L 18.10.24	Slab edge at doorway areas amended, temporary propping notes amended
K 17.10.24	Slab edge at gridline 6, below gridline G amended to 185mm and trims amended to suit, enlarged details amended
J 11.10.24	Sheets at pack L/17 amended
H 11.09.24	Additional trim pack shown
G 10.09.24	Amended to show beam at gridline C, between grids 2-3 Stud total amended
F 10.09.24	Amended to updated steelwork drawing
E 09.09.24	Wording amended on deckers note
D 09.09.24	Wording on deckers note amended, decking and trim shown at areas where steelwork information TBC (As where noted on plan)
C 09.09.24	Slab edges, sheet lengths, notes and pack weights amended at cantilevering locations
B 06.09.24	Slab edges and decking extents amended to comments received
A 02.09.24	Slab edges and decking extents amended to comments received Studs total amended
0 27.08.24	First Issue

studs	Studs required for this job are:- **19** mm dia x **95** mm after weld
phase total	Studs for Level/Phase = **2183** Number of studs = **2183**

level | Mezzanine - Lower Floor

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dwg title	TJM Projects Ltd. - Upper Campfield Market, Manchester	date	27.08.24	draughtsman	Callum Doherty	dwg.no	GA01	rev	L
		scale	NTS				

SMD® STOCKYARDS
Stock Suppliers of Steel Decking Profiles

TOP FLANGES WHICH ARE TO BE STUDWELDED MUST NOT BE PRIMED OR PAINTED

Ensure all circled columns have adequate deck support e.g. Plate

A	130 / 25 / 70	1.2mm 3m	H	130 / 25 / 300	2.0mm 3m
B	130 / 25 / 100	1.2mm 3m	J	130 / 25 / 350	2.0mm 3m
C	130 / 25 / 145	1.2mm 3m	K	130 / 25 / 400	2.0mm 3m
D	130 / 25 / 195	1.6mm 3m	L	130 / 25 / 425	2.0mm 3m
F	130 / 25 / 225	2.0mm 3m	M	130 / 25 / 450	1.2mm 3m
G	130 / 25 / 275	2.0mm 3m	N	130 / 25 / 675	2.0mm 3m

SMD drawing notes

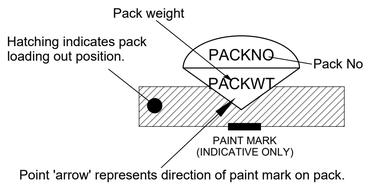
1 Profile Type TR60+/ 1.2 mm / S350

LOADING OUT: PLEASE NOTE:-

2 **Pack References**

Decking packs MUST be loaded out in accordance with SMD decking layout drawings. Packs are to be located in areas shown hatched on SMD decking GA (see below), unless advised otherwise by SMD Site Manager prior to delivery.

Deck Pack Reference Symbol

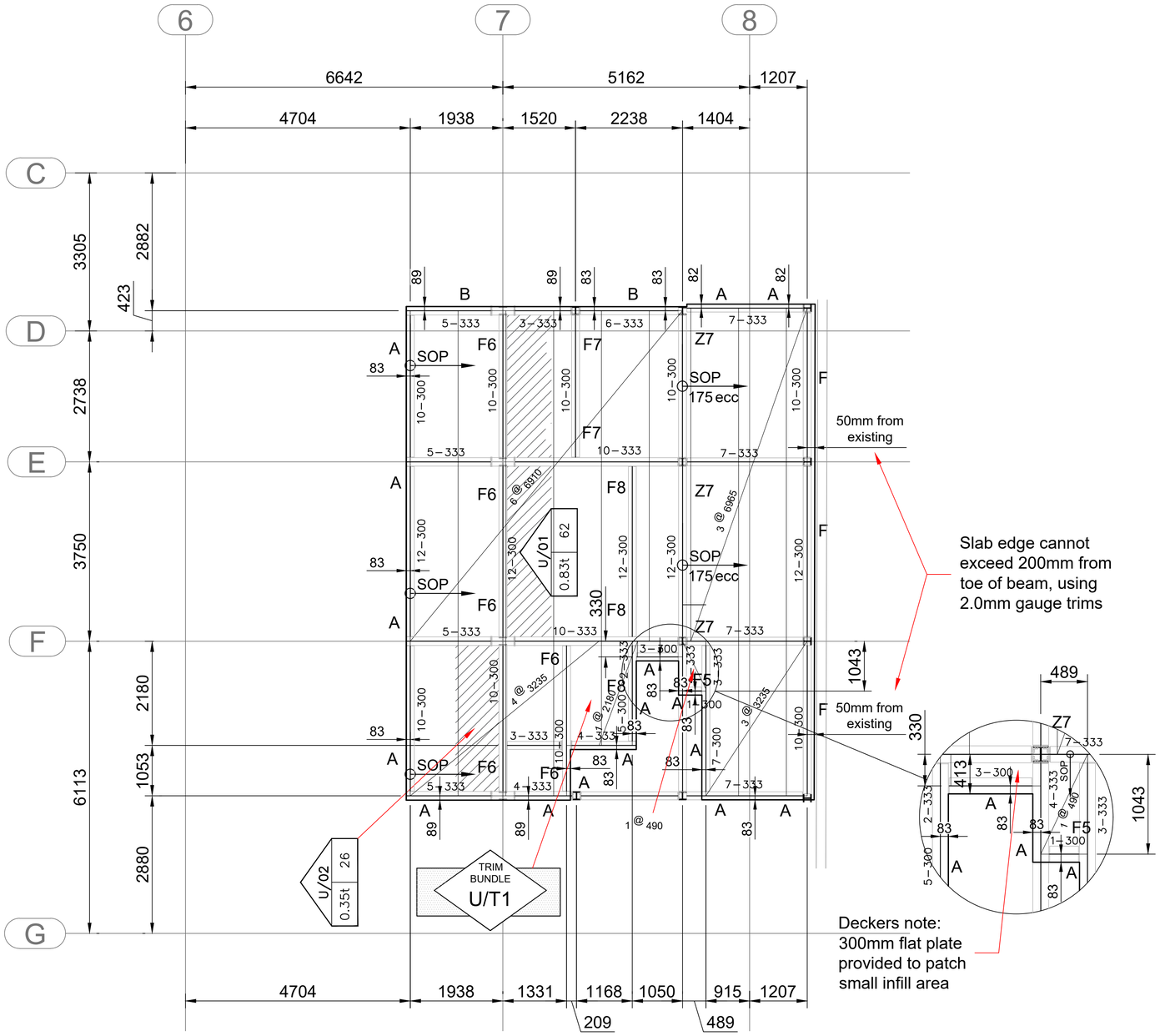


Point 'arrow' represents direction of paint mark on pack.

The colour of the paint mark on each pack represents the gauge of the decking:

Green	0.9mm gauge
Blue	1.0mm gauge
Red	1.2mm gauge

Due to the possibility of varying gauges on any one project, for health and safety reasons it is essential that all packs are loaded out in the positions indicated on SMD decking layout drawings, unless advised otherwise.



F3	50 / 75	1.2mm	3m
F4	50 / 100	1.2mm	3m
F5	50 / 125	1.2mm	3m
F6	50 / 150	1.2mm	3m
F7	50 / 175	1.2mm	3m
F8	50 / 200	1.2mm	3m
Z4	24 / 16 / 85	1.2mm	3m
Z5	24 / 16 / 110	1.2mm	3m
Z7	24 / 16 / 160	1.2mm	3m
Z8	24 / 16 / 185	1.2mm	3m
L1	75 / 95	1.2mm	3m

studs	Studs required for this job are:- **19** mm dia x **95** mm after weld
phase total	Studs for Level/Phase = **288** Number of studs = **288**

level | Mezzanine - Upper Floor

rev/date	revision
B 09.09.24	Slab edge amended. Steel positions amended, deck trim and flashings amended to suit
A 09.09.24	Slab edge amended at cantilevering locations
0 04.09.24	First Issue

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dwg title	TJM Projects Ltd. - Upper Campfield Market, Manchester	date	04.09.24	draughtsman	Callum Doherty	dwg.no	GA04	rev	B
		scale	NTS				

05 Proposed lift and stairs

Stair 01, proposed plans, 0798-P3A-XX-XX-DR-A-24041-C02

Stair 01, proposed sections, 0798-P3A-XX-XX-DR-A-24042-C02

Stair 02, proposed plans, 0798-P3A-XX-XX-DR-A-24051-C02

Stair 02, proposed sections, 0798-P3A-XX-XX-DR-A-24052-C02

Stair 03, plant access stair, proposed plans, 0798-P3A-XX-XX-DR-A-24061-C02

Stair 03, plant access stair, proposed section, 0798-P3A-XX-XX-DR-A-24062-C02

CTV vertical lifting platform drawing, rev C

CTV MRL Traction Platform Elevator UFE product description

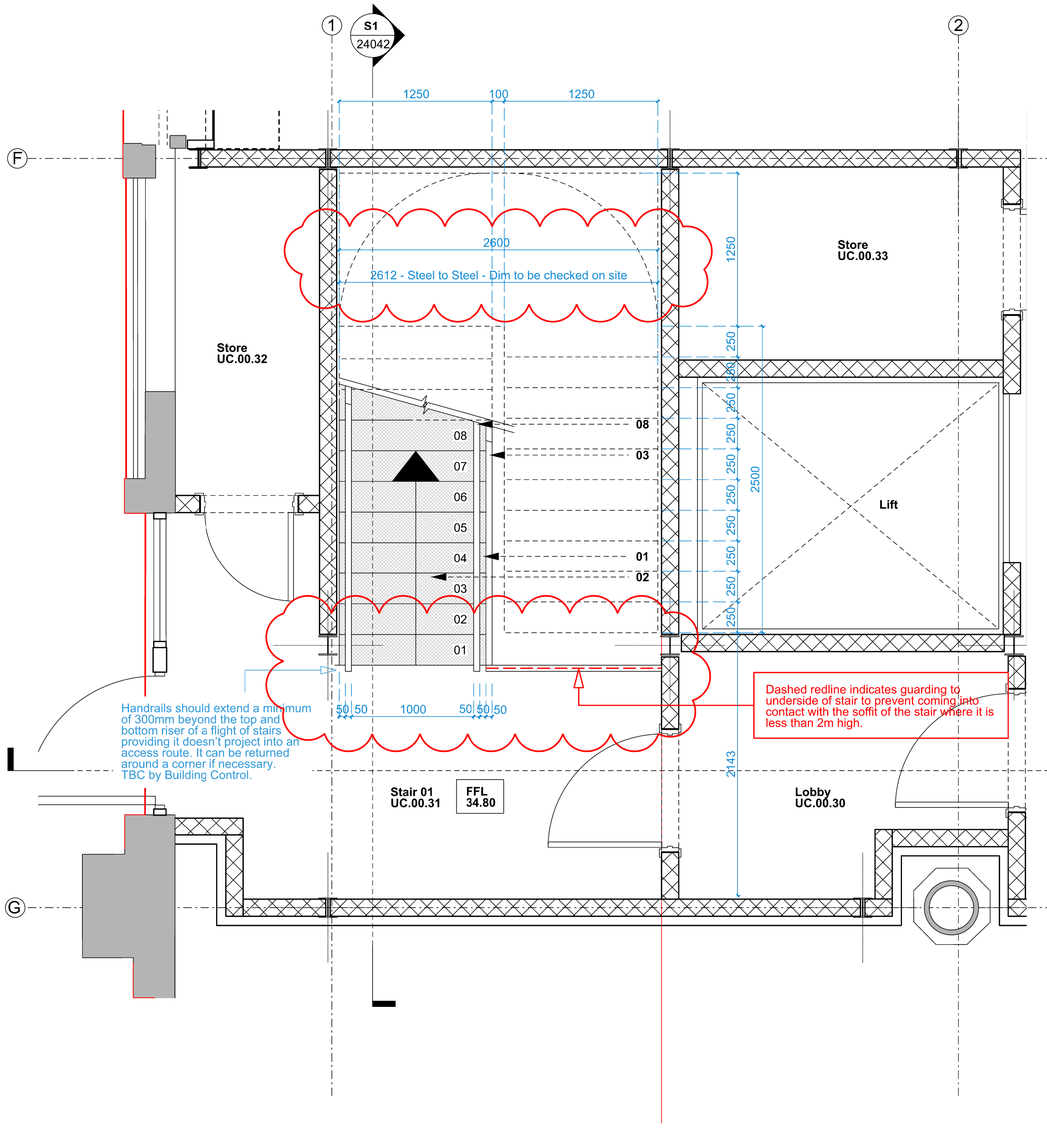
BradFab, stair 01 GA

BradFab, stair 02 GA

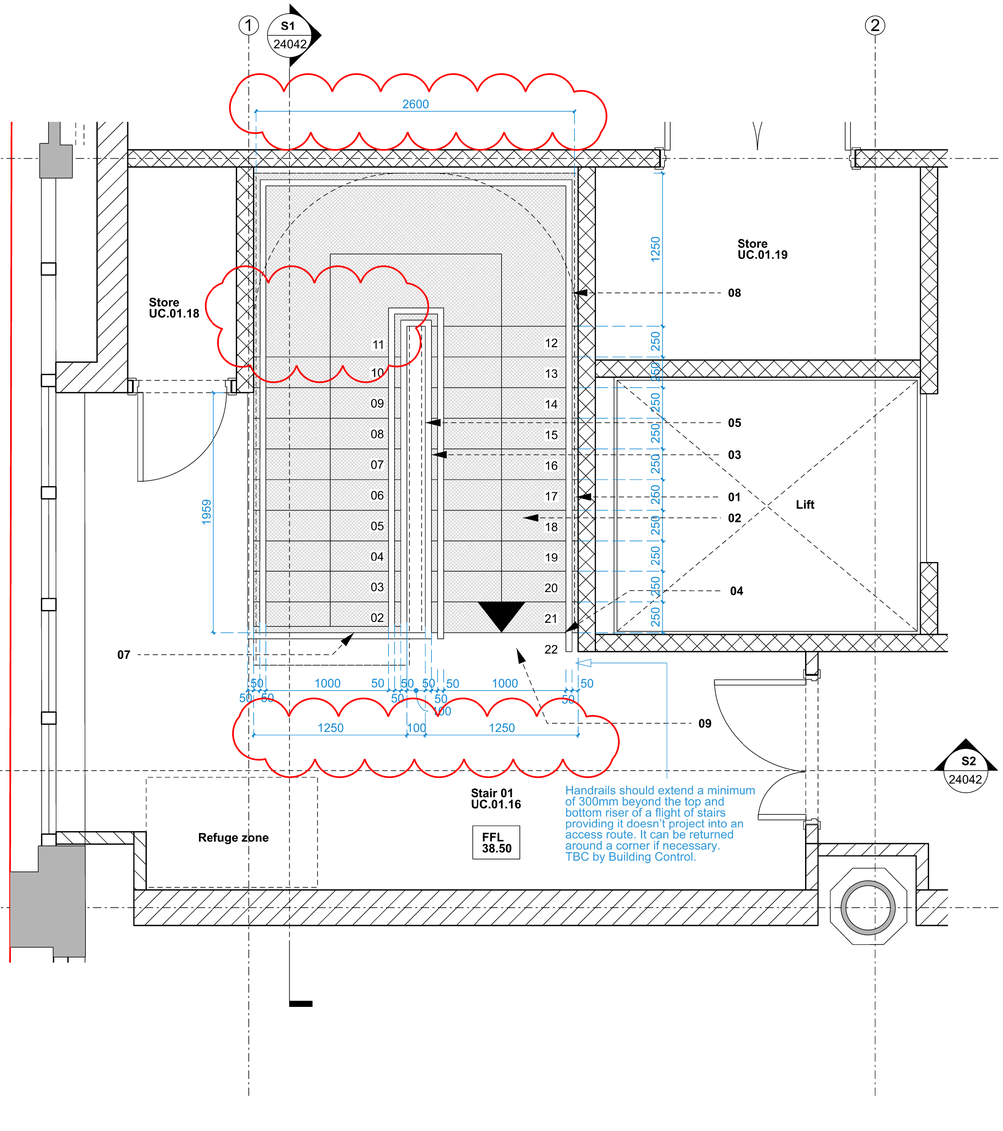
BradFab, stair 03 GA

BradFab, balustrade mezzanine floor plan

BradFab, balustrade detail



METAL STAIR 01: Ground Floor Plan
scale 1:50 @ A3



METAL STAIR 01: Mezzanine Floor Plan
scale 1:50 @ A3

LEGEND

01 metal staircase to specialist detail design with structural engineer input, refer to design intent details, input required from stair specialist, ie loadings, fixings etc.

02 stairs and finishes as per HART specification to be chequerplates (colour TBC) with contrast noising to satisfy BR

03 steel balustrade fixed to metal staircase, infill mesh panel to balustrade by Bradfabs or similar approved, details to specialist sub-contractor, structural support and no visible fixing details **TBC**, finishes as per HART specification to be PPC, matte, RAL colour **TBC**, refer to (29) series for metalwork design intent

04 stair, guarding/balustrade, guarding base and top connection details to structural engineer and specialist specification, input required from stair specialist, ie loadings, fixings etc.

05 staircase steel stringer connection to structural engineer and specialist detail design

06 steel pan tread support to SE and specialist detail design; fixings and connections **TBC**; stairs and finishes as per HART specification to be chequerplates (colour TBC) with contrast noising to satisfy Building Regulations

07 continuous balustrade to top landing. Dimensions to be checked on site. refer to P3 drawing series (29) for architectural metalworks balustrade details

08 internal handrail, finishes as per HART specification to be PPC, matte, RAL colour **TBC**

09 concrete deck and screed to SE detail and design. Refer to P3 (20) Series for further details.

GROUND FLOOR TO MEZZANINE FLOOR

Floor to floor height:	3700mm
Steps:	22No.
Rise:	168.2mm
Going:	250mm
Pitch:	33.9°

N.b. Ground Floor FFL varies - Riser height to adjust accordingly - no greater than 170mm.

Notes:

Do not scale from this drawing.
All dimensions are in millimetres unless otherwise noted.
All dimensions to be checked on site before proceeding with work.
All omissions and discrepancies to be reported in writing to Project 3 Architects Ltd.
Areas indicated on this drawing are approximate and indicitive only.
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NOTES

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- All to comply with Building Regulations: Stairs and guardings AD Part K and AD Part B
- Common access stairs for buildings other than dwellings:
  a. Vertical height from the pitch line of the finished steps to the top of the handrail to be 900mm.
  b. Vertical height from the finished landings to the top of the guarding to be 1115mm.
  c. Minimum clear headroom to be 2000mm.
  d. For handrails allow for min. 50mm distance from adjacent structure.
- Custom made internal metal staircase to detail design by specialist sub-contractor.
- All to manufacturer's recommendations.
- All detail design to be reviewed and approved by team prior to manufacture and installation.
- For structural design intent refer to Structural Engineer information.
- All finishes to HART's specification.
- All dimensions to be checked on site by specialist prior to full design and fabrication.
- Read in conjuction with other relevant packages; ie (29) series metalwork.
- These are Design Intent drawings only.

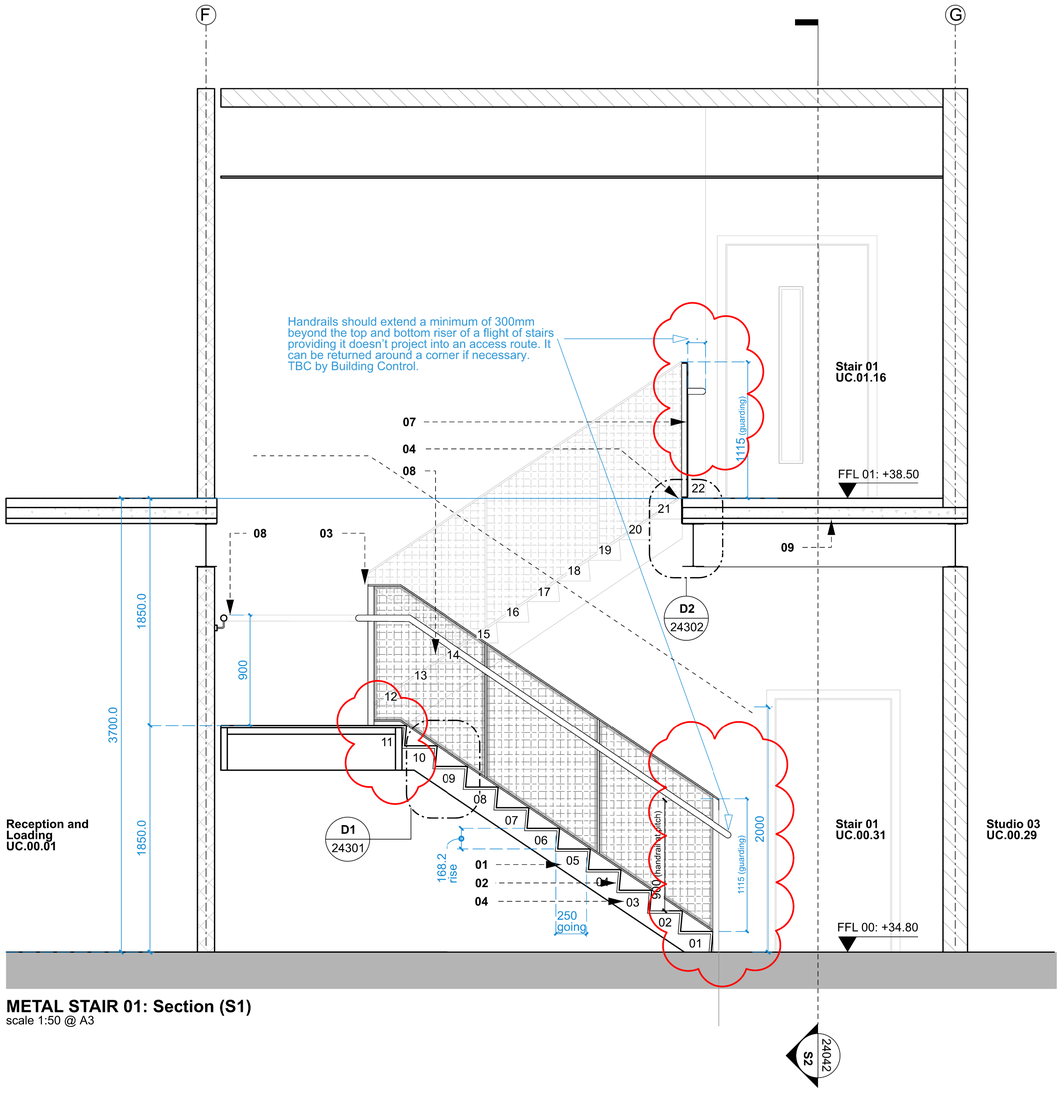
For **METAL STAIR 01**, refer to drawings for;
Plan: 0798-P3A-XX-XX-DR-A-**24041**
Elevation / Section: 0798-P3A-XX-XX-DR-A-**24042**
Details: 0798-P3A-XX-XX-DR-A-**24300 Series**

Rev:	Date:	Description:	By:
C02	27/09/24	General Update	CP
C01	28/06/24	Construction	ajb

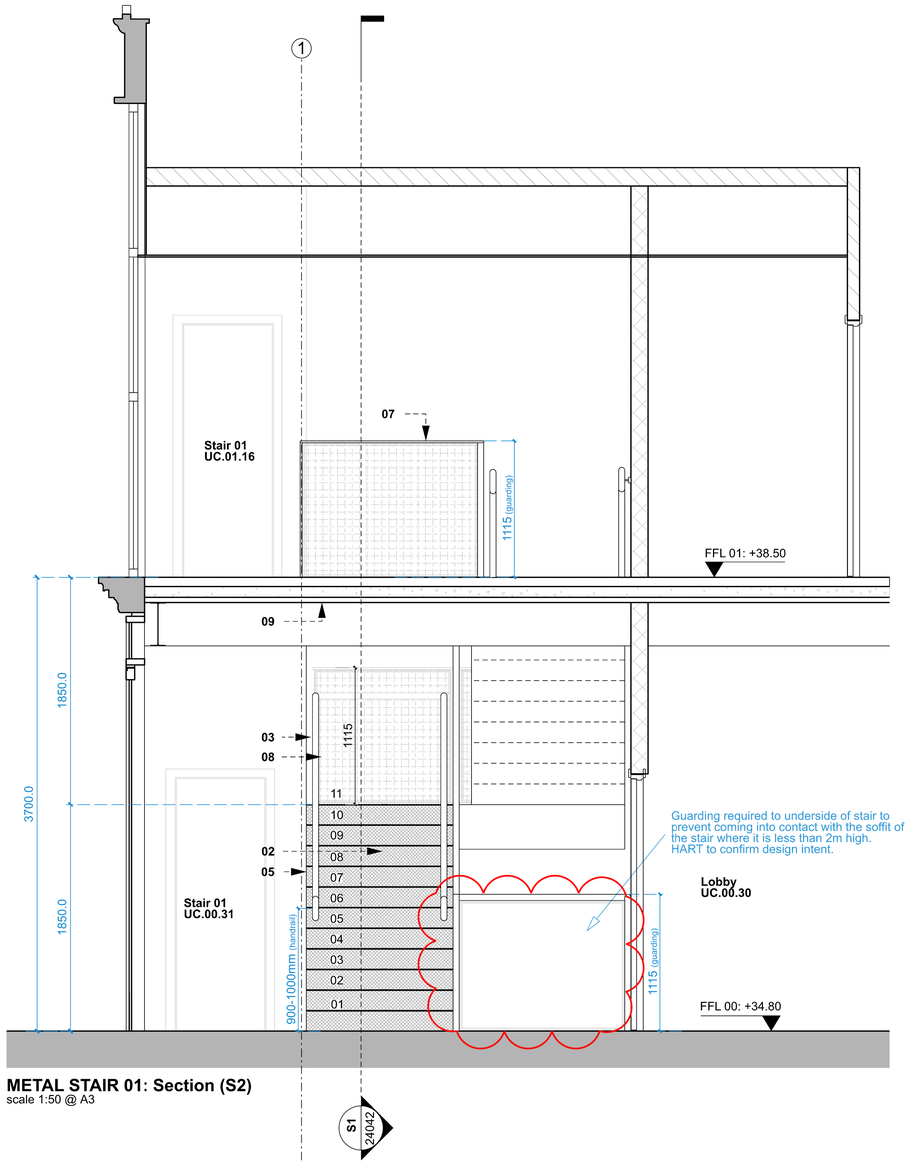
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PROJECT 3 architects
4 back grafton street
altrincham
cheshire
WA14 1DY
0161 233 0575
mail@project3architects.com
www.project3architects.com

Project:
Upper Campfield
Liverpool Road, Manchester
Title:
Stair 01
Proposed Plans
Status: Construction
Scale @ ISO A3: 1:50
Drawing Number: 0798-P3A-XX-XX-DR-A-24041
Revision: C02



METAL STAIR 01: Section (S1)
scale 1:50 @ A3



METAL STAIR 01: Section (S2)
scale 1:50 @ A3

LEGEND

01 metal staircase to specialist detail design with structural engineer input, refer to design intent details, input required from stair specialist, ie loadings, fixings etc.

02 stairs and finishes as per HART specification to be chequerplates (colour TBC) with contrast noising to satisfy BR

03 steel balustrade fixed to metal staircase, infill mesh panel to balustrade by Bradfabs or similar approved, details to specialist sub-contractor, structural support and no visible fixing details **TBC**, finishes as per HART specification to be PPC, matte, RAL colour **TBC**, refer to (29) series for metalwork design intent

04 stair, guarding/balustrade, guarding base and top connection details to structural engineer and specialist specification, input required from stair specialist, ie loadings, fixings etc.

05 staircase steel stringer connection to structural engineer and specialist detail design

06 steel pan tread support to SE and specialist detail design; fixings and connections **TBC**; stairs and finishes as per HART specification to be chequerplates (colour TBC) with contrast noising to satisfy Building Regulations

07 continuous balustrade to top landing. Dimensions to be checked on site. refer to P3 drawing series (29) for architectural metalworks balustrade details

08 internal handrail, finishes as per HART specification to be PPC, matte, RAL colour **TBC**

09 concrete deck and screed to SE detail and design. Refer to P3 (20) Series for further details.

GROUND FLOOR TO MEZZANINE FLOOR

Floor to floor height:	3700mm
Steps:	22No.
Rise:	168.2mm
Going:	250mm
Pitch:	33.9°

N.b. Ground Floor FFL varies - Riser height to adjust accordingly - no greater than 170mm.

Notes:

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NOTES

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  b. Vertical height from the finished landings to the top of the guarding to be 1115mm.
  c. Minimum clear headroom to be 2000mm.
  d. For handrails allow for min. 50mm distance from adjacent structure.
- Custom made internal metal staircase to detail design by specialist sub-contractor.
- All to manufacturer's recommendations.
- All detail design to be reviewed and approved by team prior to manufacture and installation.
- For structural design intent refer to Structural Engineer information.
- All finishes to HART's specification.
- All dimensions to be checked on site by specialist prior to full design and fabrication.
- Read in conjuction with other relevant packages; ie (29) series metalwork.
- These are Design Intent drawings only.

For **METAL STAIR 03**, refer to drawings for;

Plan:	0798-P3A-XX-XX-DR-A-**24041**
Elevation / Section:	0798-P3A-XX-XX-DR-A-**24042**
Details:	0798-P3A-XX-XX-DR-A-**24300 Series**

Rev:	Date:	Description:	By:
C02	27/09/24	General Update	CP
C01	28/06/24	Construction Issue	ajb

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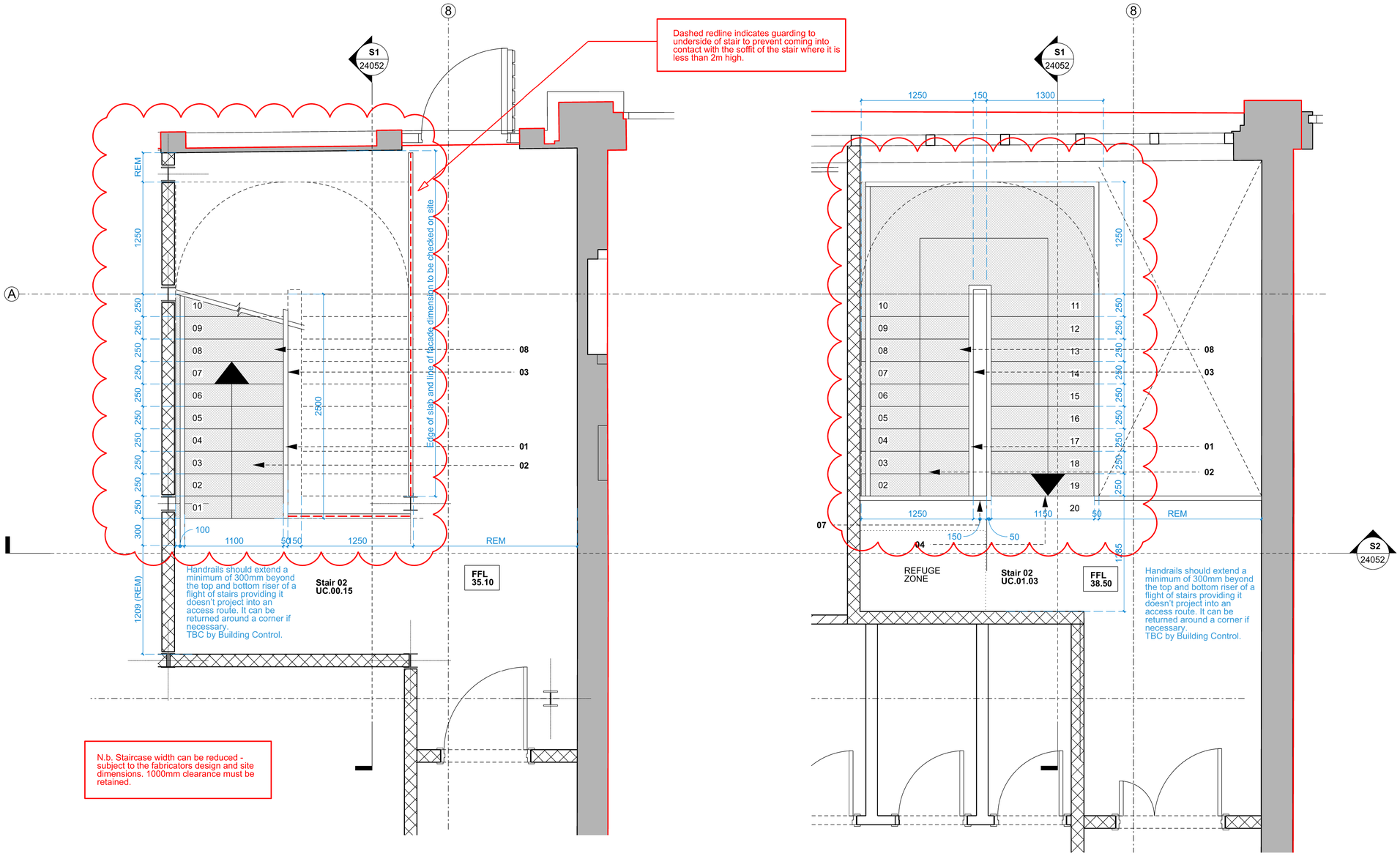
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4 back grafton street
altrincham
cheshire
WA14 1DY
0161 233 0575
mail@project3architects.com
www.project3architects.com

Project:
Upper Campfield
Liverpool Road, Manchester

Title:
Metal Stair 01
Proposed Sections

Status: Construction
Scale @ ISO A3: 1:50

Drawing Number: 0798-P3A-XX-XX-DR-A-24042
Revision: C02



METAL STAIR 02: Ground Floor Plan
scale 1:50 @ A3

METAL STAIR 02: Mezzanine Floor Plan
scale 1:50 @ A3

LEGEND

01 metal staircase to specialist detail design with structural engineer input, refer to design intent details, input required from stair specialist, ie loadings, fixings etc.

02 stairs and finishes as per HART specification to be chequerplates (colour TBC) with contrast noising to satisfy BR.

03 steel balustrade drawn indicatively only, fixed to metal staircase, top and mid rail **TBC** balustrade by Bradfabs or similar approved, details to specialist sub-contractor, structural support and no visible fixing details **TBC**, finishes as per HART specification to be PPC, matte, RAL colour **TBC**.

04 stair, guarding/balustrade, guarding base and top connection details to structural engineer and specialist specification, input required from stair specialist, ie loadings, fixings etc.

05 staircase steel stringer connection to structural engineer and specialist detail design

06 steel pan tread support to SE and specialist detail design; fixings and connections **TBC**; stairs and finishes as per HART specification to be chequerplates (colour TBC) with contrast noising to satisfy Building Regulations

07 continuous balustrade to top landing. Dimensions to be checked on site.

08 internal handrail, finishes as per HART specification to be PPC, matte, RAL colour **TBC**

09 concrete deck and screed to SE detail and design. Refer to P3 (20) Series for further details.

GROUND FLOOR TO MEZZANINE FLOOR

Floor to floor height:	3400mm
Steps:	20No.
Rise:	170mm
Going:	250mm
Pitch:	34.2°

N.b. Ground Floor FFL varies - Riser height to adjust accordingly - no greater than 170mm.

Notes:

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  b. Vertical height from the finished landings to the top of the guarding to be 1115mm.
  c. Minimum clear headroom to be 2000mm.
  d. For handrails allow for min. 50mm distance from adjacent structure.
- Custom made internal metal staircase to detail design by specialist sub-contractor.
- All to manufacturer's recommendations.
- All detail design to be reviewed and approved by team prior to manufacture and installation.
- For structural design intent refer to Structural Engineer information.
- All finishes to HART's specification.
- All dimensions to be checked on site by specialist prior to full design and fabrication.
- Read in conjuction with other relevant packages; ie (29) series metalwork.
- These are Design Intent drawings only.

For **METAL STAIR 03**, refer to drawings for;

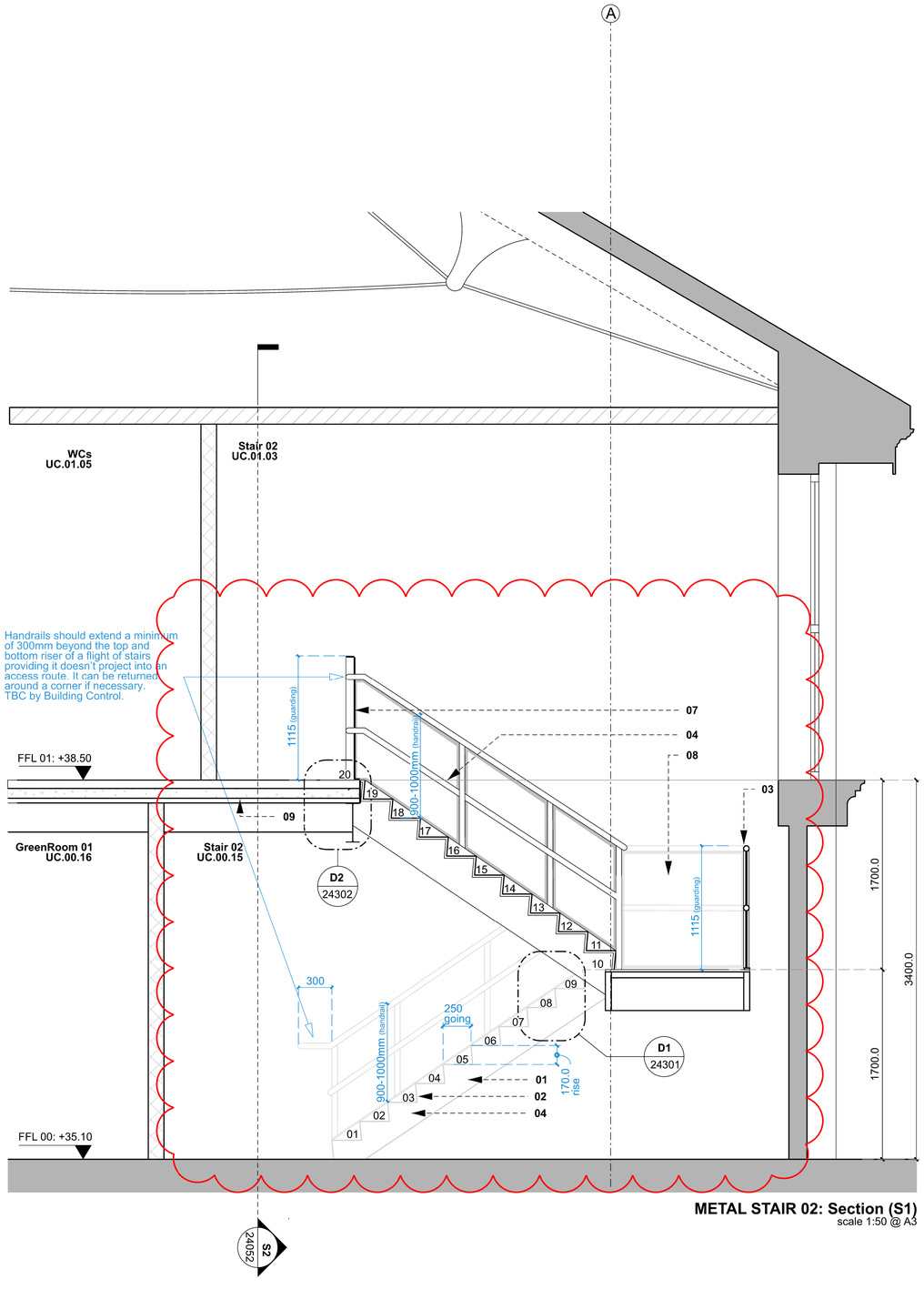
Plan:	0798-P3A-XX-XX-DR-A-**24051**
Elevation / Section:	0798-P3A-XX-XX-DR-A-**24052**
Details:	0798-P3A-XX-XX-DR-A-**24300 Series**

Rev:	Date:	Description:	By:
C02	27/09/24	General Update	CP
C01	28/06/24	Construction Issue	ajb

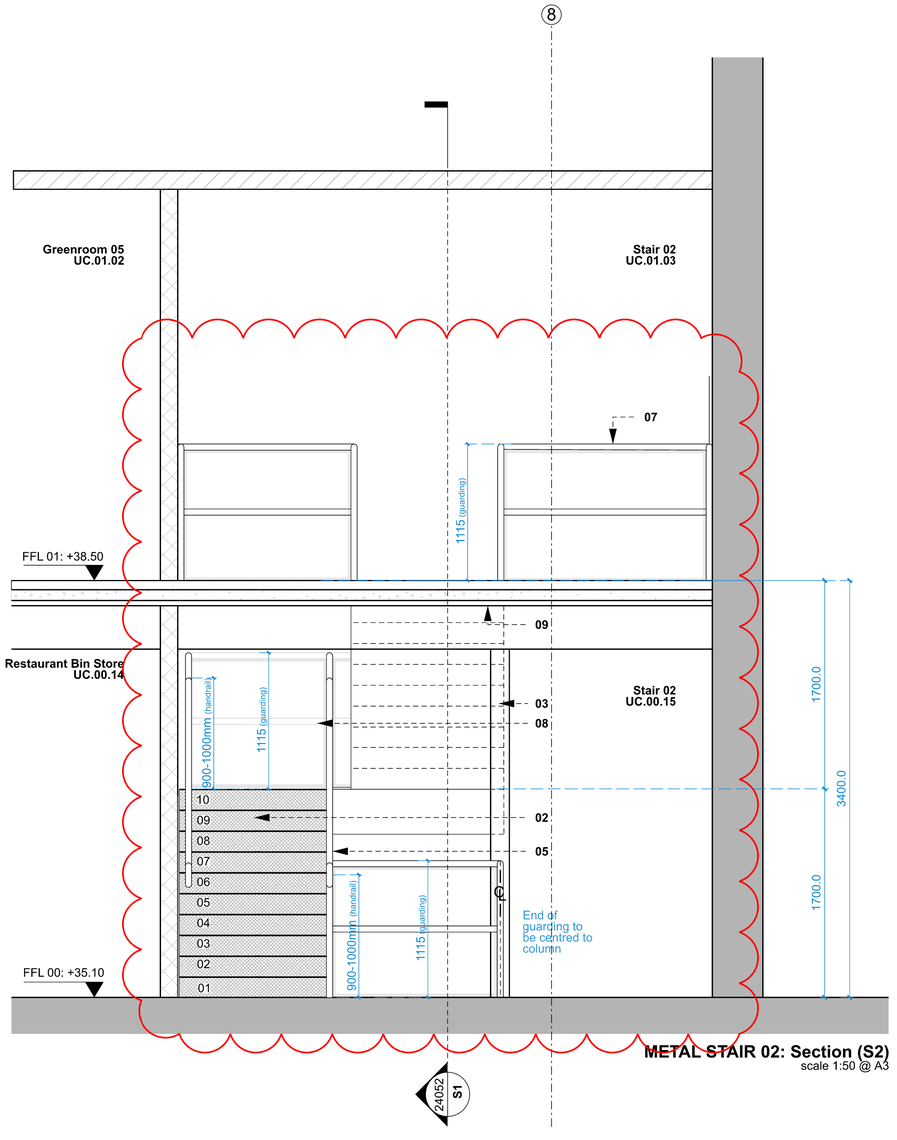
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PROJECT 3 architects
4 back grafton street
altrincham
cheshire
WA14 1DY
0161 233 0575
mail@project3architects.com
www.project3architects.com

Project:
Upper Campfield
Liverpool Road, Manchester
Title:
Stair 02
Proposed Plans
Status: Construction
Scale @ ISO A3: 1:50
Drawing Number: 0798-P3A-XX-XX-DR-A-24051
Revision: C02



METAL STAIR 02: Section (S1)
scale 1:50 @ A3



METAL STAIR 02: Section (S2)
scale 1:50 @ A3

LEGEND

01 metal staircase to specialist detail design with structural engineer input, refer to design intent details, input required from stair specialist, ie loadings, fixings etc.

02 stairs and finishes as per HART specification to be chequerplates (colour TBC) with contrast noising to satisfy BR.

03 steel balustrade drawn indicatively only, fixed to metal staircase, top and mid rail **TBC** balustrade by Bradfabs or similar approved, details to specialist sub-contractor, structural support and no visible fixing details **TBC**, finishes as per HART specification to be PPC, matte, RAL colour **TBC**.

04 stair, guarding/balustrade, guarding base and top connection details to structural engineer and specialist specification, input required from stair specialist, ie loadings, fixings etc.

05 staircase steel stringer connection to structural engineer and specialist detail design

06 steel pan tread support to SE and specialist detail design; fixings and connections **TBC**; stairs and finishes as per HART specification to be chequerplates (colour TBC) with contrast noising to satisfy Building Regulations

07 continuous balustrade to top landing. Dimensions to be checked on site.

08 internal handrail, finishes as per HART specification to be PPC, matte, RAL colour **TBC**

09 concrete deck and screed to SE detail and design. Refer to P3 (20) Series for further details.

GROUND FLOOR TO MEZZANINE FLOOR

Floor to floor height:	3400mm
Steps:	20No.
Rise:	170mm
Going:	250mm
Pitch:	34.2°

N.b. Ground Floor FFL varies - Riser height to adjust accordingly - no greater than 170mm.

N.b. Staircase width can be reduced - subject to the fabricators design and site dimensions. 1000mm clearance must be retained.

Notes:

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NOTES

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- Common access stairs for buildings other than dwellings:
  a. Vertical height from the pitch line of the finished steps to the top of the handrail to be 900mm.
  b. Vertical height from the finished landings to the top of the guarding to be 1115mm.
  c. Minimum clear headroom to be 2000mm.
  d. For handrails allow for min. 50mm distance from adjacent structure.
- Custom made internal metal staircase to detail design by specialist sub-contractor.
- All to manufacturer's recommendations.
- All detail design to be reviewed and approved by team prior to manufacture and installation.
- For structural design intent refer to Structural Engineer information.
- All finishes to HART's specification.
- All dimensions to be checked on site by specialist prior to full design and fabrication.
- Read in conjuction with other relevant packages; ie (29) series metalwork.
- These are Design Intent drawings only.

For **METAL STAIR 03**, refer to drawings for;

Plan:	0798-P3A-XX-XX-DR-A-**24051**
Elevation / Section:	0798-P3A-XX-XX-DR-A-**24052**
Details:	0798-P3A-XX-XX-DR-A-**24300 Series**

Rev:	Date:	Description:	By:
C02	27/09/24	General Update	CP
C01	28/06/24	Construction issue	ajb

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PROJECT 3 architects
4 back grafton street
altrincham
cheshire
WA14 1DY
0161 233 0575
mail@project3architects.com
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Project:
Upper Campfield
Liverpool Road, Manchester

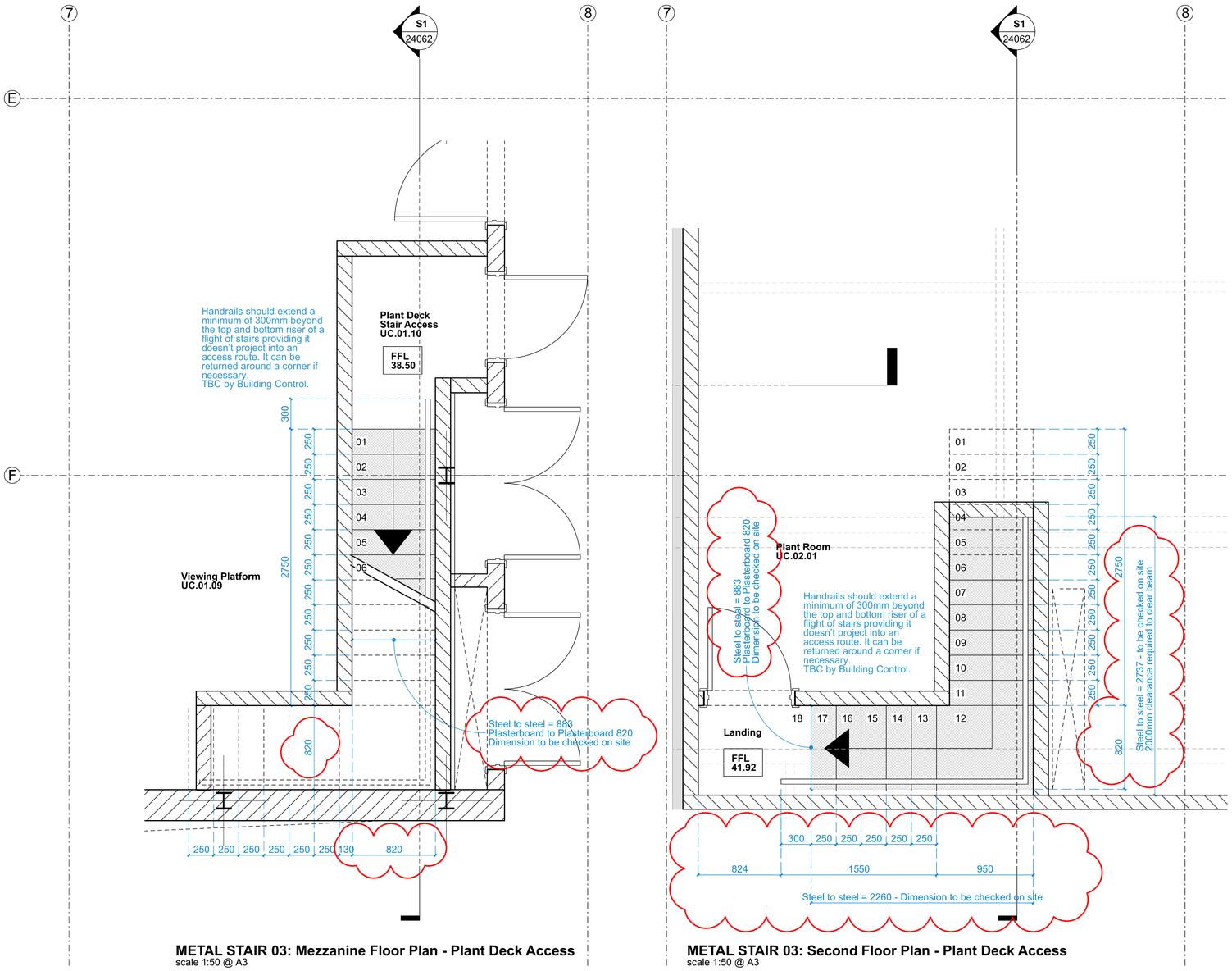
Title:
Metal Stair 02
Proposed Sections

Status: Construction

Scale @ ISO A3: 1:50

Drawing Number: 0798-P3A-XX-XX-DR-A-24052

Revision: C02



METAL STAIR 03: Mezzanine Floor Plan - Plant Deck Access
scale 1:50 @ A3

METAL STAIR 03: Second Floor Plan - Plant Deck Access
scale 1:50 @ A3

LEGEND

01 metal staircase to specialist detail design with structural engineer input, refer to design intent details, input required from stair specialist, ie loadings, fixings etc.

02 stairs and finishes as per HART specification to be chequerplates (colour TBC) with contrast noising to satisfy BR

03 steel balustrade fixed to metal staircase, infill mesh panel to balustrade by Bradfabs or similar approved, details to specialist sub-contractor, structural support and no visible fixing details **TBC**, finishes as per HART specification to be PPC, matte, RAL colour **TBC**, refer to (29) series for metalwork design intent

04 stair, guarding/balustrade, guarding base and top connection details to structural engineer and specialist specification, input required from stair specialist, ie loadings, fixings etc.

05 staircase steel stringer connection to structural engineer and specialist detail design

06 steel pan tread support to SE and specialist detail design; fixings and connections **TBC**; stairs and finishes as per HART specification to be chequerplates (colour TBC) with contrast noising to satisfy Building Regulations

07 continuous balustrade to top landing. Dimensions to be checked on site. refer to P3 drawing series (29) for architectural metalworks balustrade details

08 internal handrail, finishes as per HART specification to be PPC, matte, RAL colour **TBC**

09 concrete deck and screed to SE detail and design. Refer to P3 (20) Series for further details.

MEZZANINE FLOOR TO PLANT DECK

Floor to floor height:	3420mm
Steps:	18No.
Rise:	190mm
Going:	250mm
Pitch:	37.23°

Notes:

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- All finishes to HART's specification.
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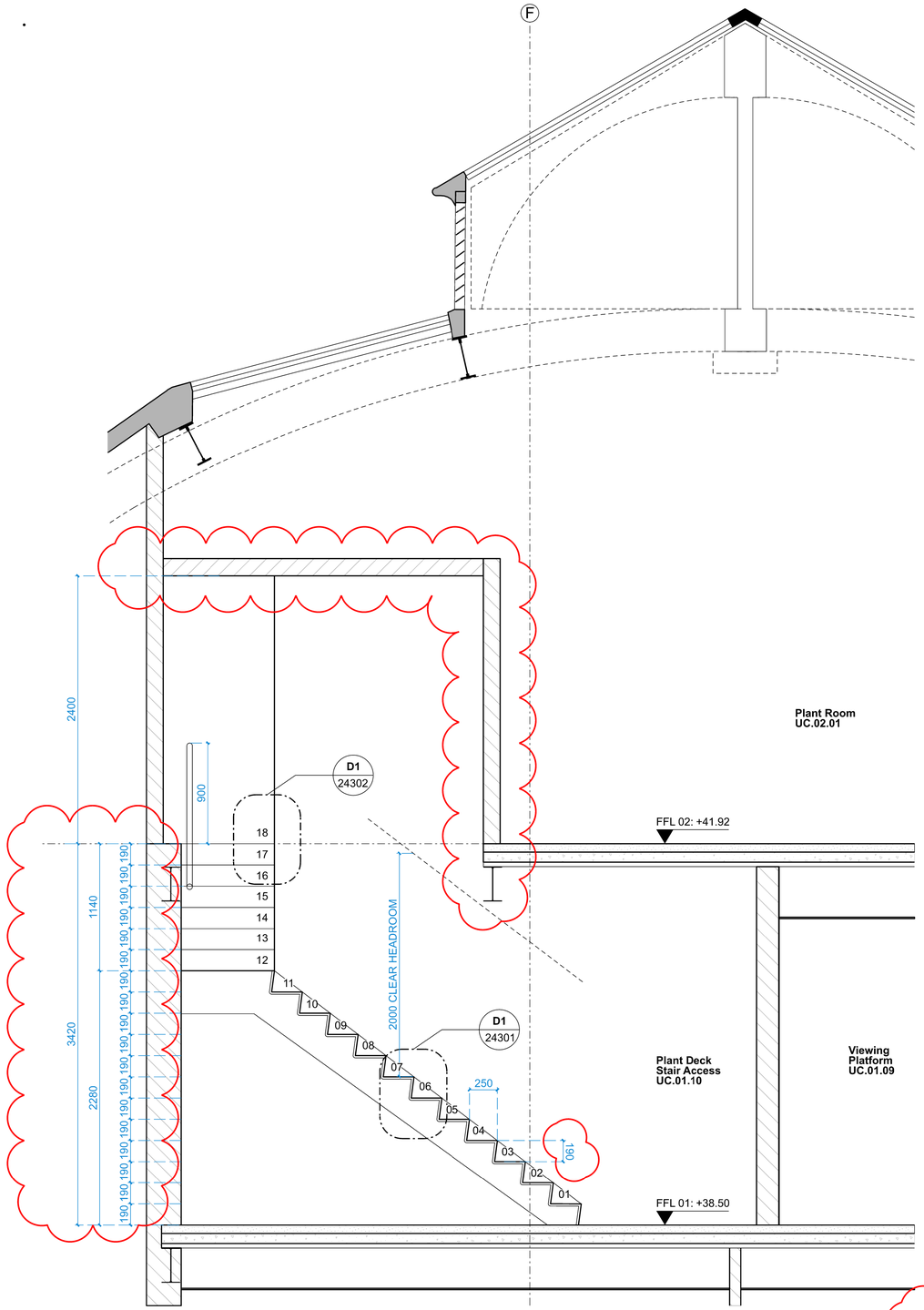
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Elevation / Section:	0798-P3A-XX-XX-DR-A-**24062**
Details:	0798-P3A-XX-XX-DR-A-**24300 Series**

Rev:	Date:	Description:	By:
C02	27/09/24	General Update	CP
C01	28/06/24	Construction Issue	ajb

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PROJECT 3 architects
4 back grafton street
altrincham
cheshire
WA14 1DY
0161 233 0575
mail@project3architects.com
www.project3architects.com

Project:
Upper Campfield
Liverpool Road, Manchester
Title:
Stair 03- plant access stair
Proposed Plans
Status: Construction
Scale @ ISO A3: 1:50
Drawing Number: 0798-P3A-XX-XX-DR-A-24061
Revision: C02



LEGEND

01 metal staircase to specialist detail design with structural engineer input, refer to design intent details, input required from stair specialist, ie loadings, fixings etc.

02 stairs and finishes as per HART specification to be chequerplates (colour TBC) with contrast noising to satisfy BR

03 steel balustrade fixed to metal staircase, infill mesh panel to balustrade by Bradfabs or similar approved, details to specialist sub-contractor, structural support and no visible fixing details **TBC**, finishes as per HART specification to be PPC, matte, RAL colour **TBC**, refer to (29) series for metalwork design intent

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05 staircase steel stringer connection to structural engineer and specialist detail design

06 steel pan tread support to SE and specialist detail design; fixings and connections **TBC**; stairs and finishes as per HART specification to be chequerplates (colour TBC) with contrast noising to satisfy Building Regulations

07 continuous balustrade to top landing. Dimensions to be checked on site. refer to P3 drawing series (29) for architectural metalworks balustrade details

08 internal handrail, finishes as per HART specification to be PPC, matte, RAL colour **TBC**

09 concrete deck and screed to SE detail and design. Refer to P3 (20) Series for further details.

MEZZANINE FLOOR TO PLANT DECK

Floor to floor height:	3420mm
Steps:	18No.
Rise:	190mm
Going:	250mm
Pitch:	37.23°

Notes:

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- For structural design intent refer to Structural Engineer information.
- All finishes to HART's specification.
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For **METAL STAIR 03**, refer to drawings for;

Plan:	0798-P3A-XX-XX-DR-A-**24061**
Elevation / Section:	0798-P3A-XX-XX-DR-A-**24062**
Details:	0798-P3A-XX-XX-DR-A-**24300 Series**

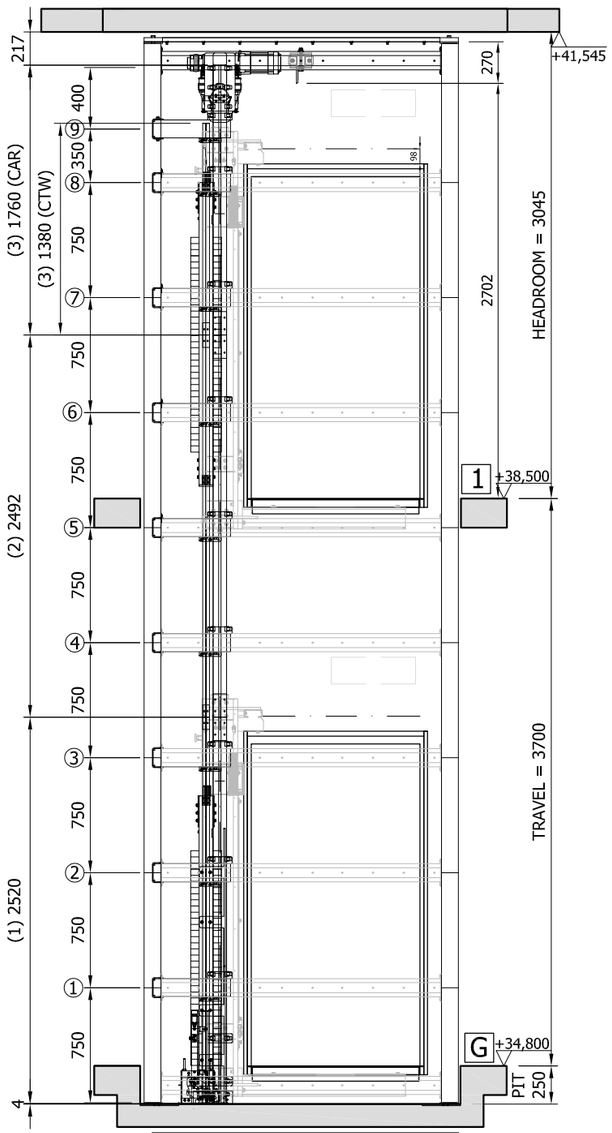
Rev:	Date:	Description:	By:
C02	27/09/24	General Update	CP
C01	28/06/24	Construction Issue	ajb

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altrincham
cheshire
WA14 1DY
0161 233 0575
mail@project3architects.com
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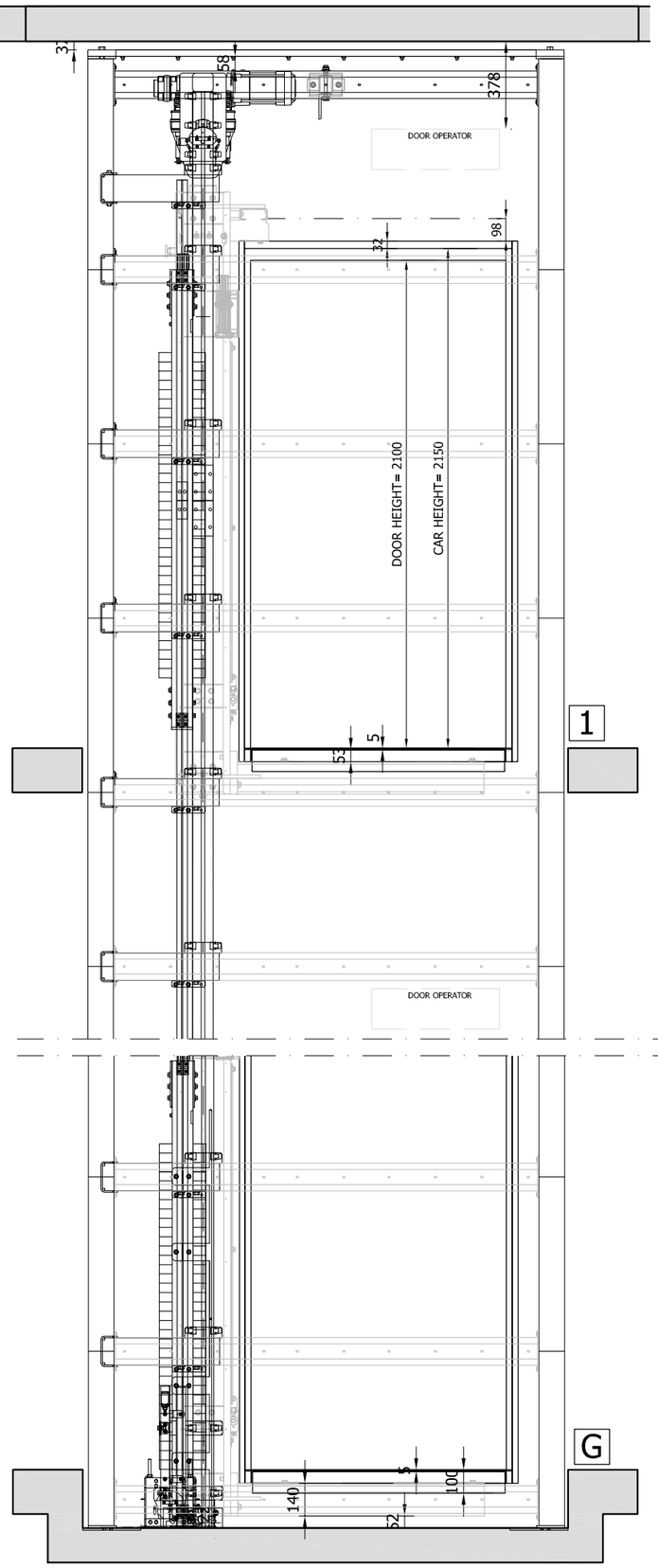
Project:
Upper Campfield
Liverpool Road, Manchester
Title:
Stair 03- plant access stair
Proposed Section
Status: Construction
Scale @ ISO A3: 1:50
Drawing Number: 0798-P3A-XX-XX-DR-A-24062
Revision: C02

SECTION
SCALE: 1/40

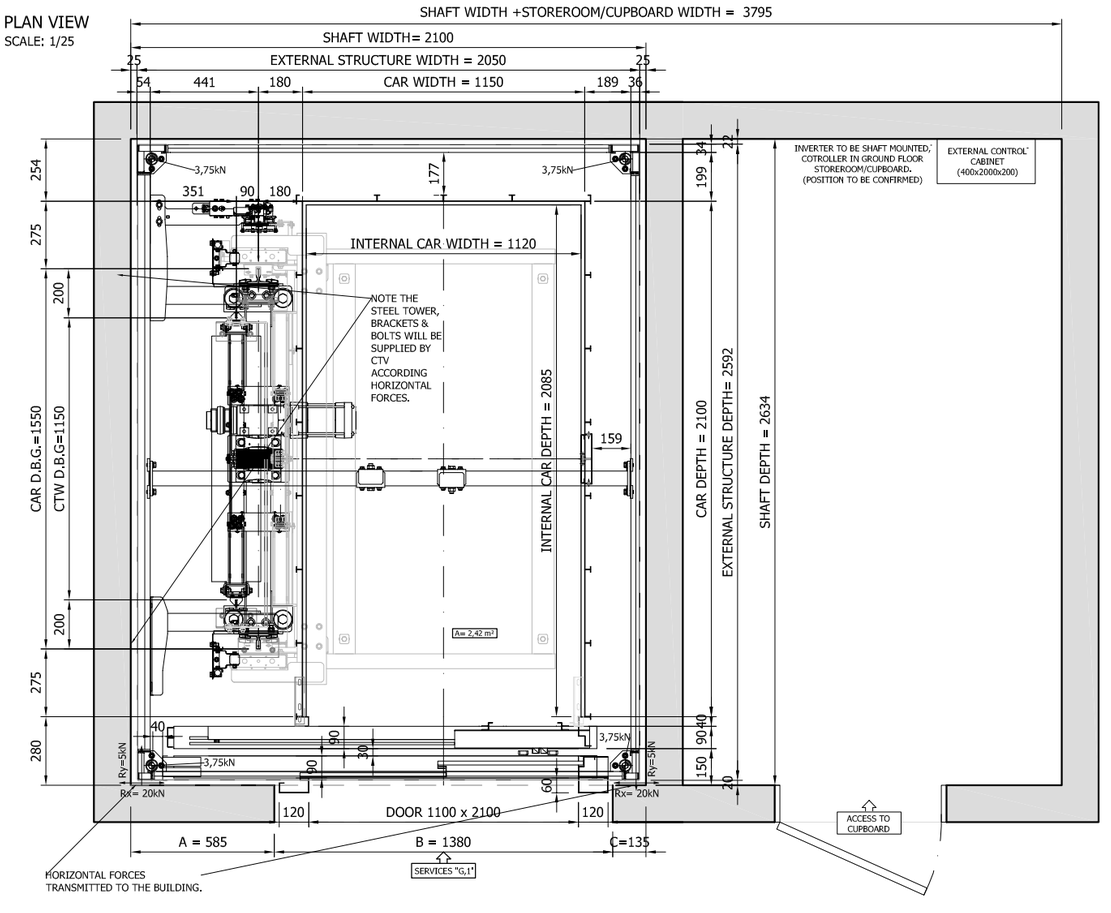


NOTE: GROUND FLOOR VARIES, LEVEL SHOWN IS APPROXIMATE AT DOOR THRESHOLD

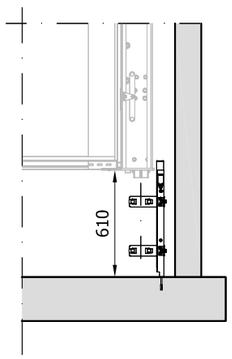
LIFT SHAFT HEIGHT SECTION
SCALE: 1/25



PLAN VIEW
SCALE: 1/25



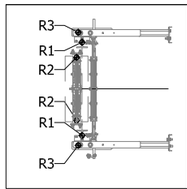
MECHANICAL STOP FOR SAFETY CUBE.
SCALE: 1/35

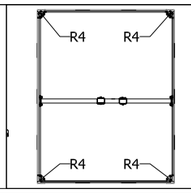


REF. CTV	A-24242	CLIENT REFERENCE	CAMPFIELD MARKET

RATED LOAD	1000	kg	CAR LOAD	925	kg
CAR FRAME WEIGHT	231 kg ± 10	kg	FLOORING PLATFORM WEIGHT	100 kg ±10	kg
CAR AREA	2,42	m²	TRAVEL	4000	mm
CAR MODEL	INOX				

GUIDE REACTIONS / PIT LOADINGS

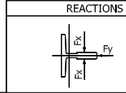




VERTICAL LOADINGS ON THE PIT

R1 = 40,00 kN	CAR GUIDES - TRACTION	
R2 = 1,00 kN	CWT GUIDES - TRACTION	
R3 = 5,00 kN	MECHANICAL STOP	
R4 = 3,75 kN	STEEL TOWER UPRIGHTS	

REACTIONS ON GUIDES / ENCLOSURE / STEEL TOWER



Fx = 10,50 kN

Fy = 5,00 kN

ELECTRICAL SPECIFICATIONS

DRIVE HOUSING	TDA4.5 IEC90-125-6 POL 3~230V/400VAC				
POWER SUPPLY	3~230V/400VAC	V	FREQUENCY	50	Hz
MOTOR POWER	1,5	kW	RUNNING CURRENT	8,7/5,0	A

DATE	NAME	DESCRIPTION	REVISION
-	-	-	-
-	-	-	-
-	-	-	-
30/10/2024	DCR	UPDATED	C
01/10/2024	DCR	UPDATED	B
19/09/2024	JMS	DIMENSION SHAFT	A
12/09/2024	JMS	FIRST OUTPUT	0

VERTICAL LIFTING PLATFORMS INTENDED FOR USE BY PERSONS WITH IMPAIRED MOBILITY (V.MAX 0.15)

CTV

WEELCHAIRS TYPE A y B WITH HELP-PERSON

C
REV.

MRL TRACTION PLATFORM ELEVATOR **UFE** BY CTV

225 - 400 KG RUCKSACK ARRANGEMENT

PRODUCT DESCRIPTION

PD210_06 EN 12/05/2021



EN

www.ctvlifts.com



Vertical platform elevator for passengers with reduced mobility between defined levels, specially designed for residential buildings and dwellings as well as commercial premises.

Depending on intended use, suitable for a wide range of wheelchairs dimensions with or without motorization and with or without assistant.

To be installed in a built lift shaft with automatic landing doors. Tailor made steel structures as option upon request.

MRL UFE **options**

225 - 400 kg 0,15 m/s	**225 - 400 kg 0,3 m/s**	**225 - 400 kg 0,5 m/s**	**400 - 1000 kg 0,15 m/s**
GEAR UNIT POWER SUPPLY 1,5 kW 2:1	GEARLESS MACHINE POWER SUPPLY 1,3 kW 2:1	GEAR UNIT POWER SUPPLY 1,5 kW 2:1	GEAR UNIT POWER SUPPLY 1,5 kW 2:1
MOTOR REDUCTOR POWER SUPPLY 0,8 kW 1:1 SMALL SHAFTS	VERSION FOR COUNTRIES OUTSIDE THE EU	VERSION FOR COUNTRIES OUTSIDE THE EU	
GEARLESS MOTOR POWER SUPPLY 0,8 kW 2:1			

Compared to hydraulic equivalent 30% improved energy efficiency and over 50% reduction in installed motor size. Energy class A (ISO25745) consideration.

True machine roomless solution with free-to-chose control panel position anywhere in the building or in the landing door frame.

Extremely quiet operation (< 50 dBA). Reduced vibrations during running in any direction.

No automatic relevelling required, thus reducing innecessary noise and energy consumption.

Environmentally friendly through absence of hydraulic oil.
Gearbox oiled-for-life.

Easy installation through low weight.
Preassembly of guide rail elements (optional).

Maximum safety level through dual brake system.
Emergency crown wheel safety block.

All mayor components manufactured in Germany.
German design of steelwork.

Automatic resuce through weight discompensation with battery powered brake release.

Maintenance-free gearbox.

Tailor-made car solutions available.



INDEX



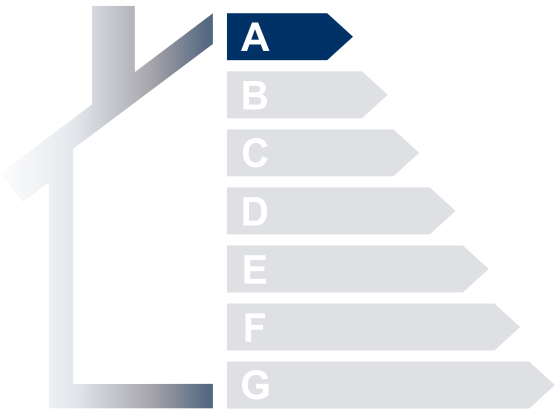
1 Technical details ..... pg. 7
2 Traction arrangement ..... pg. 8
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7 Car accessoires ..... pg. 20
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LOADS DE 225 - 400 KG

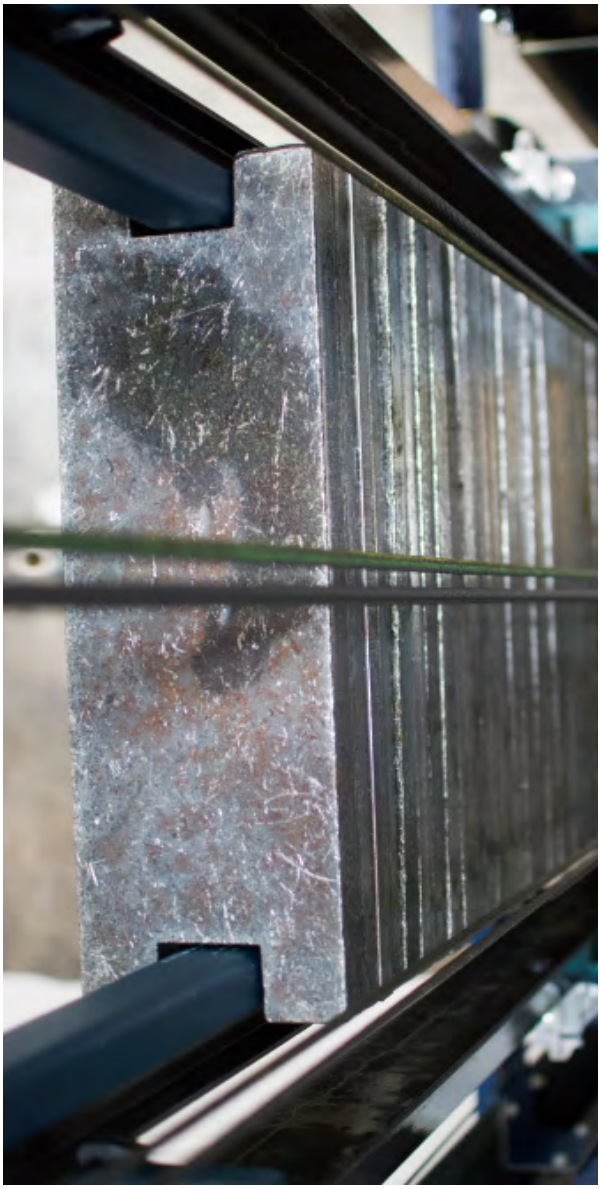
	MRL UFE 2:1 gear unit 0,15 m/s	UFE 2:1 gearless 0,15 m/s
SPEED	0,15 M/S	
NOMINAL LOAD (Q)	225 - 315 - 385 KG	
MAXIMUM Q+F	6/8	
P+Q MAXIMUM	1250 KG	
RMAXIMUM TRAVEL	21 M (1)	
MINIMUM PIT DEPTH	150 (*) MM	
MINIMUM HEADROOM	2700 (*) MM	2800 (*) MM
SUSPENSION	2:1 - 1:1	2:1
ARRANGEMENT	RUCKSACK	
MOTOR	TENSION 230V 1~ 50 HZ	
POWER SUPPLY	800 W	
MACHINE	GEAR UNIT + VWF	
CAR AND LANDING DOOR	SINGLE ACCESS OR DOUBLE ACCESS 180º Ó 90º AND TRIPLE ACCESS (**)	
CAR ACCESS	SIMPLE ACCESS 2 X 180º Y 2 X 90º	
DIRECTIVE	MACHINE DIRECTIVE 2006/42/CE	

(1) Consult for longer travels.
(*) Specific executions can be made for 100mm and with minor headrooms.
(**) Consult in each case.

MORE EFFICIENCY



LESS EFFICIENCY



TRACTION ARRANGEMENT

Top drive traction elevator with 2:1 arrangement and counterweight.

Suspension via 4 ropes Ø6 mm PAWO 819W. Ø200 mm SCHWARZ polyamide divertor pulleys for low vibration, low noise operation and extended rope life expectancy. No rope change required during live cycle of platform elevator.

Car sling provided with SLC/ LUEZAR instantaneous safety gear IT-100.

Compact overspeed govenor DYNATECH Quasar located at top of shaft and provided with remote tripping and auto reset function. Operated with 6,5 mm PAWO governor rope and compact tension pulley.

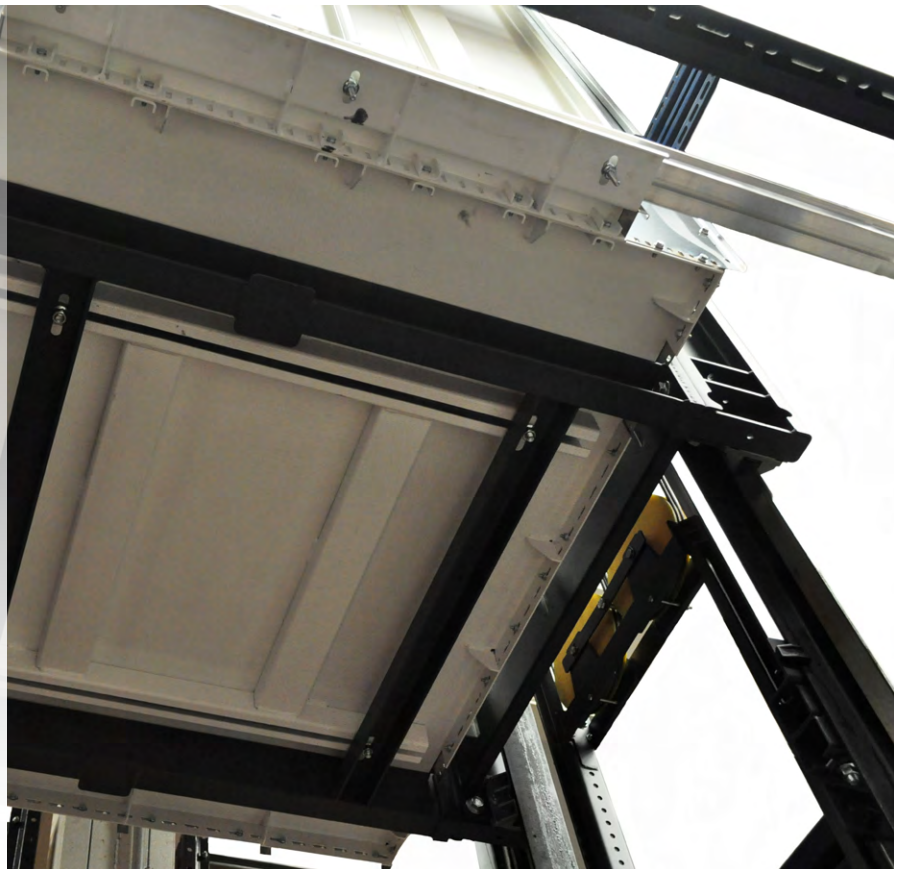


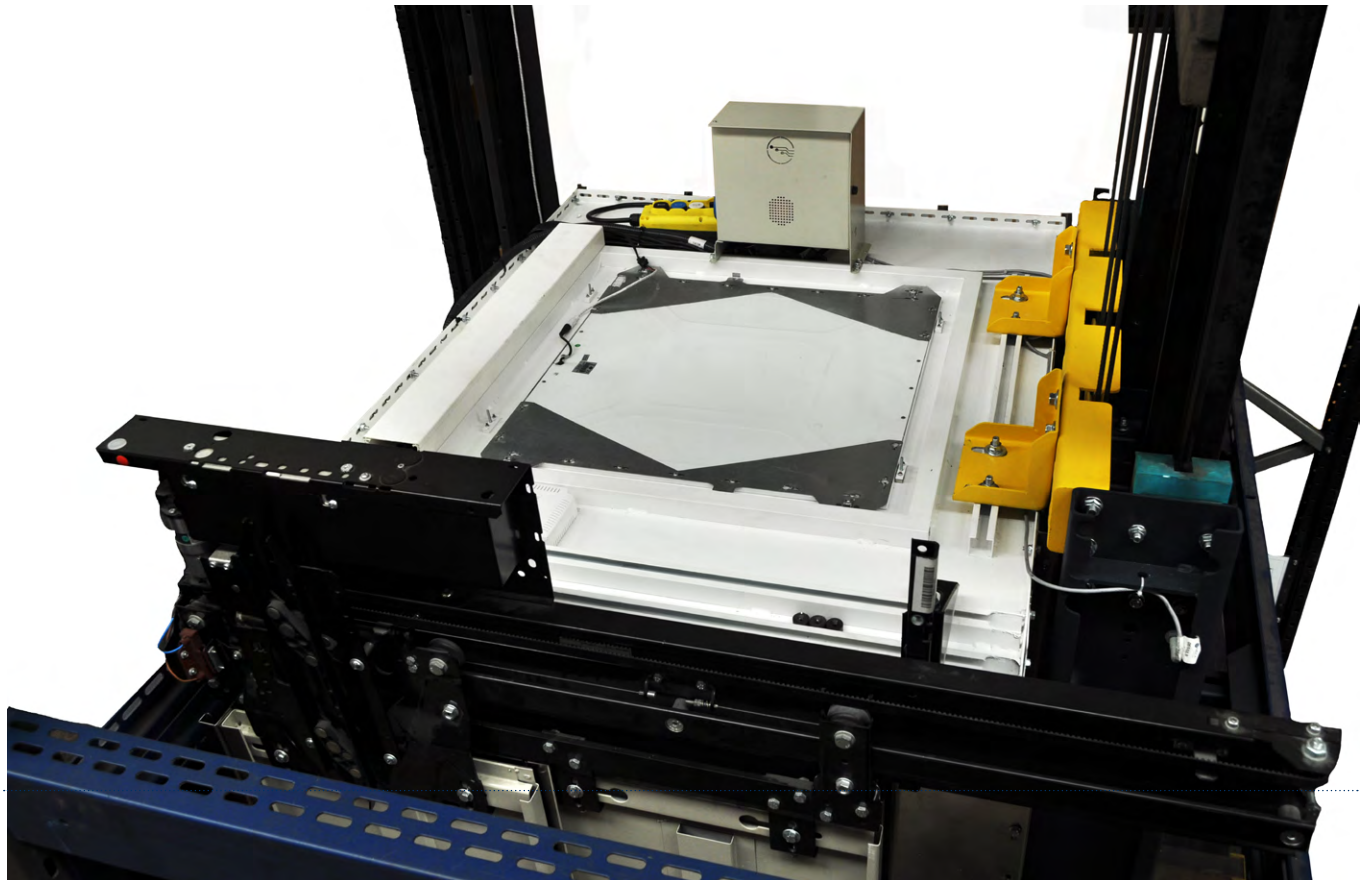
GUIDE RAIL ARRANGEMENT

Car sling running on T82/B guide rails. Standard distance between guides (DBG) 800 mm. Guide rails supplied in 2,5 m length. Guide shoes provided with extremely low friction polyethylene liners (PE) and oilers for smooth noise and vibrationless running.

To reduce on-site installation times, guide rails can optionally be provided pre-assembled.

Installation requires a 1.000 kg lifting hook or beam in the headroom.





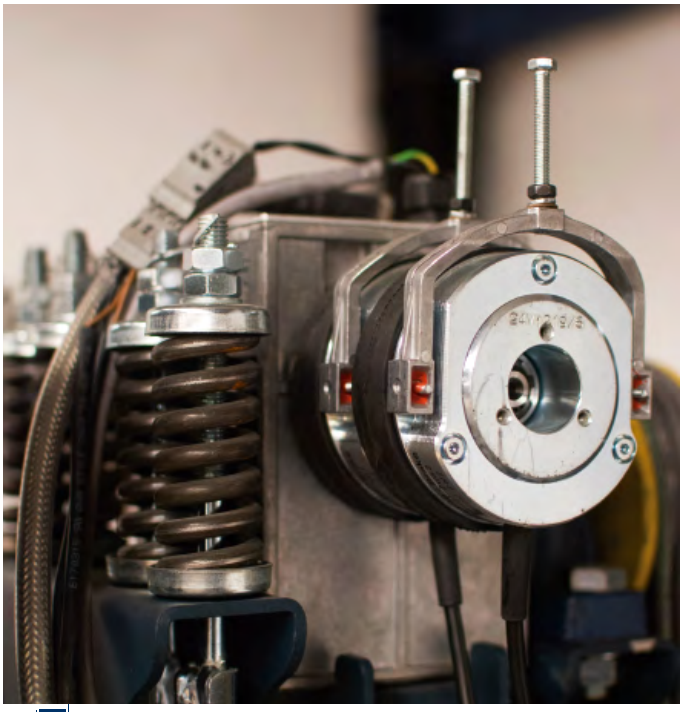
MACHINE

High quality 3VF gearbox, conveniently positioned inside the shaft in the headroom.

Main advantages:

- Dual 24 Vdc safety brake, on the gear side.
- Emergency crown wheel safety blocking.
- Reduced level of sound and vibration (<50 dBA)
- Open loop 3VF motor for smooth acceleration and deceleration.
- 6 pole motor with IP54 rating.
- High resistance and balanced thermal behaviour. Built-in bi-metal thermistor for operations up to 130ºC.
- Steel traction sheave running on SKF A-bearings.
- IP54 motor rating.
- Gearbox oiled-for-life with synthetic oil.
- Minimum guaranteed cycles 1.5 million.



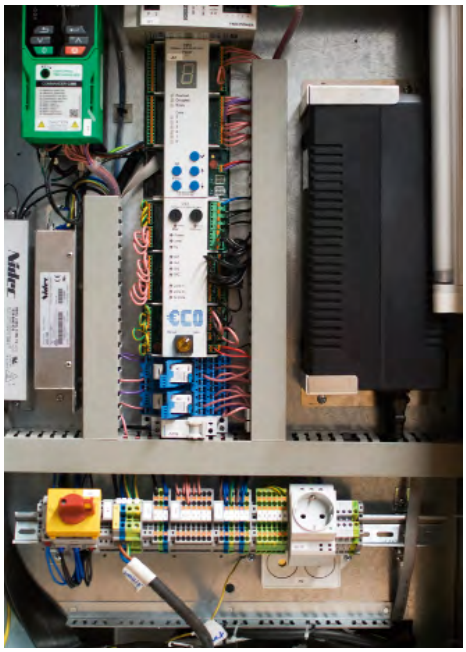


CONTROLLER AND WIRING

True machine roomless solution with free-to-chose control panel position anywhere in the building or alternatively in the landing door frame.

Included as standard is a rescue system with batteries for weight discompensation. An optional SAI is available to automatically drive the lift to the designated evacuation floor.

Car, inspection box and shaft installation pre-wired. LED shaft lighting optional.



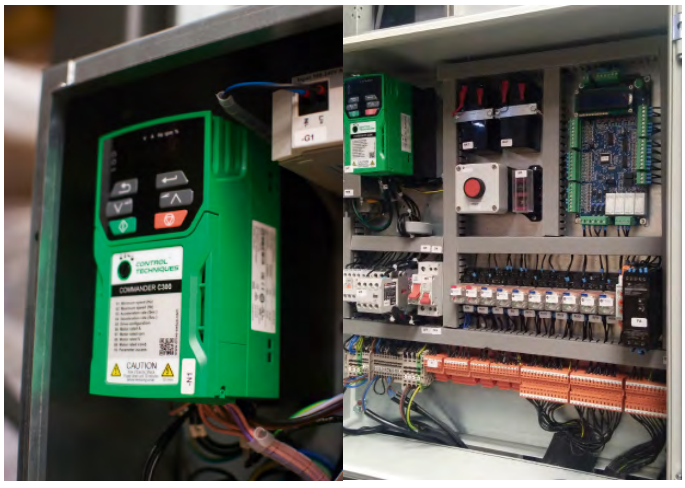
NEW LIFT

Available control panels are:

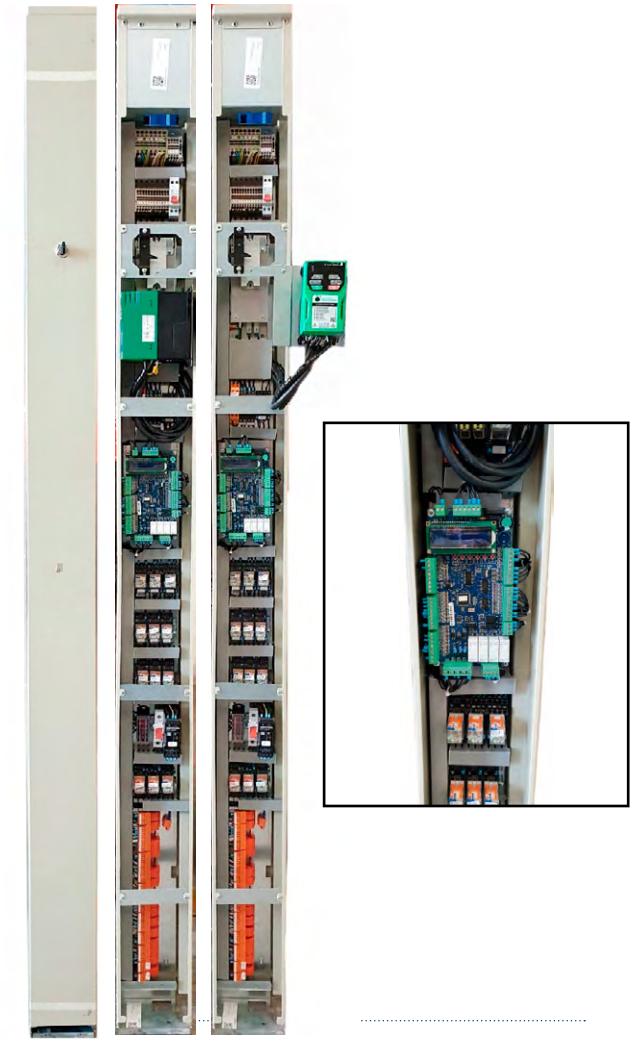
- **NEWLIFT VF** contactor-less universal up to 6 floors. Dimensions: 750x500x190 mm.
- **INELCA VF** universal up to 8 floors. Dimensions: 600x600x200 mm.

VF drive in any case Control Technics.

INELCA



INELCA CONTROL PANEL IN THE FRAME



CAR DECORATION

LAMINATED

NOVA - ML ELEGANCE



GLOSS RED | SATIN EFFECT | GLOSS BLACK | BLACK

FINISHES

The actual sample might differ from the printed sample.

GLOSS BLUE	OCEAN	POPULAR GREY	GLOSS WHITE
GLOSS CASSIS	GLOSS MARENGO	GLOSS RED	GLOSS BLACK
ELEMENTAL CONCRETE	WHITE ASH	SERINGA	TURQUOISE
SANDSTONE	ELEMENTAL CORTEN	CHOCOLAT	WHITE FRANCE
CHINA BLUE	GRAPHITE	ELEMENTAL GRAPHITE	BEECH
NATURAL TEAK	OAK	SATIN EFFECT	COUNTRY CHERRY
BRUNT STRAND			

The final aspect of the car might differ from the image in catalogue.
Our cabins can be customized to your liking. Please consult for other finishes.

OTHER OPTIONS OF CARS

www.ctvlifts.com



CAR DECORATION

MELAMINE FINISHES

NOVA - ML CAMBRIAN



CAMBRIAN | BRUSHED | WHITE | BEIGE

FINISHES

The actual sample might differ from the printed sample.

CAMBRIAN | ROBLE RENOVALES | GREY | BEECH

CERVINO PINE | HABANA LINEN TEXTILE

The final aspect of the car might differ from the image in catalogue.
Our cabins can be customized to your liking. Please consult for other finishes.

OTHER OPTIONS OF CARS

www.ctvlifts.com



CAR DECORATION

STAINLESS STEEL FINISHES AISI441 Y AISI304

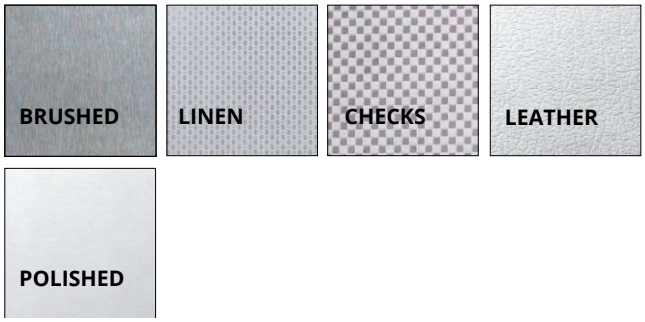
NOVA - INOX





FINISHES

The actual sample might differ from the printed sample.



Other texturing available.

The final aspect of the car might differ from the image in catalogue.
Our cabins can be customized to your liking. Please consult for other finishes.

OTHER OPTIONS OF CARS

www.ctvlifts.com



CAR DECORATION

NOVA - EP









EPOXY RESIN FINISHES

FINISHES

The actual sample might differ from the printed sample.

WHITE RAL 9016	OYSTER WHITE RAL 1013	BEIGE RAL 1019	DARK GREY RAL 7010
CREME RAL 9001	GREEN RAL 6019	PEARL BEIGE RAL 1035	PEARL LIGHT GREY RAL 9022
WATER BLUE RAL 5021	GREY RAL 7032	GREY METALLIC RAL 9006	BLACK RAL 9005
PIGEON BLUE RAL RAL 5014			

The final aspect of the car might differ from the image in catalogue.
Our cabins can be customized to your liking. Please consult for other finishes.

OTHER OPTIONS OF CARS

www.ctvlifts.com



CAR ACCESSORIES

CEILING



LED PANEL LIGHTING



LED SPOTLIGHTS

FLOOR

ANTISLIP RUBBER

BEIGE | GREY | CEMENT GREY | BLACK | OAK

ARTIFICIAL STONES

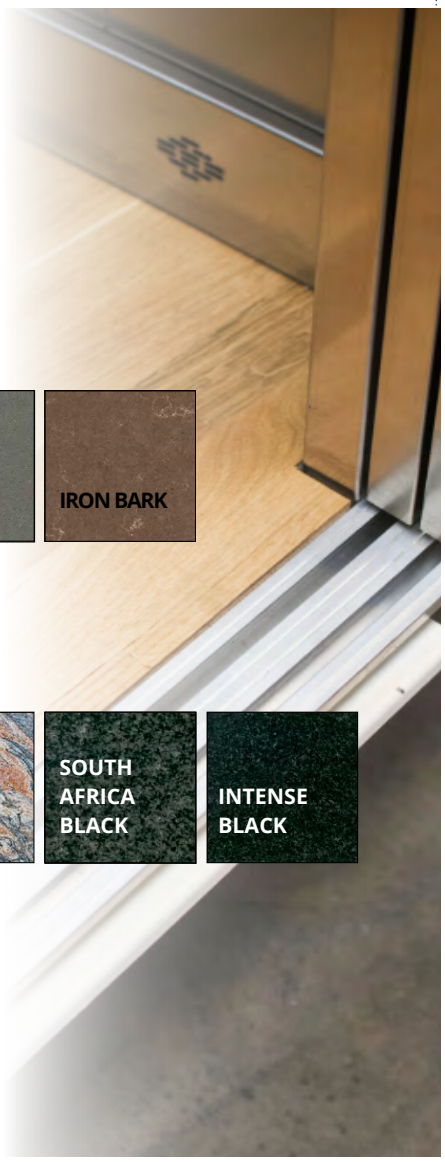
EXPO GREY | ROYAL REEF | NORTH WHITE | MEROPE | BLACK | CIMENT | IRON BARK

NATURAL GRANITES (1)

PORRIÑO PINK | PEARL GREY | QUINTANA GREY | CRYSTAL WHITE | RELIQUIA | SAHARA WINGS | SOUTH AFRICA BLACK | INTENSE BLACK

ANDRÓMEDA | DARK BLUE LABRADOR | LIGHT BLUE LABRADOR | SHIVAKASHI

The actual sample might differ from the printed sample.



(1) WITH A MAXIMUM THICKNESS OF 25 MM.
Floor preparation for stone installation to be supplied by the client.

CAR ACCESSORIES

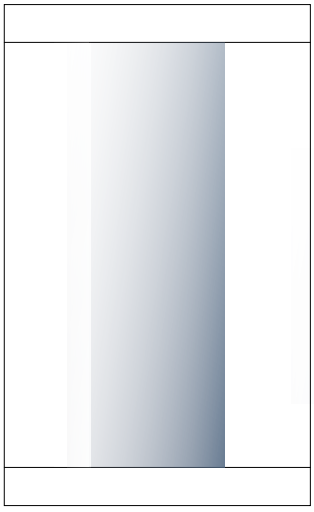
HANDRAIL



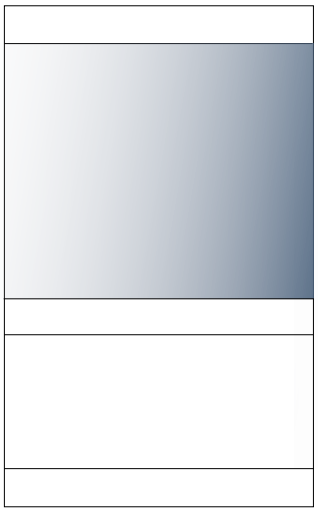


CURVED, CIRCULAR, Ø35 MM IN S/STEEL (OPTIONAL IN RAL COLOURED EPOXY)

MIRROR CONFIGURATIONS



STRIP



HALF MIRROR



3/4



FULL MIRROR



CAR & LANDING OPERATING PANELS

Brushed s/steel COP and LOP in 2 available options:

- Flush mounted.
- Surface mounted.

There are different types of push buttons:

- CEHAM 3D.
- HUNIO CTV-33.
- VEGA Achilles.
- SCHAEFFER range available upon request.

Push button provided with “OCCUPIED” LED. Keyswitch or key fobs upon request.

The COP includes:

- Floor push buttons, indicating selected floor.
- Door open push button.
- Alarm & emergency call push button.
- Integrated two way intercom.
- Load plate.
- Position indicator upon request.
- Emergency lighting in car ceiling.

EMERGENCY PHONE

Two-way emergency phone system according to EN81-28 integrated with COP panel. Preparation of COP for emergency phone system by others upon request.



RECOMMENDED CAR DIMENSIONS

The standard EN81-41 includes some recommendations concerning car dimensions and nominal payload (Q), helping the client to decide what suits their requirements best:

- Wheelchair or single standing user: 800 x 1250 mm (250 kg).
- Type A and B wheelchair with assistant: 900 x 1400 mm (315 kg).
- Type A and B wheelchair with assistant in car where the wheelchair can turn inside the car: 1100 x 1400 mm (385 kg).

According to the above, CTV offers tailor-made solutions for car dimensions. Our standard layout drawings show some of the most common dimensions for each nominal load (Q). A minimum payload of 250 kg/ m2 of car area is to be considered at any time.

Most common examples:

- 900 x 1000 mm, 225 kg.
- 900 x 1400 mm, 315 kg.
- 1000 x 1250 mm, 315 kg.
- 1000 x 1400 mm, 385 kg (400 kg).

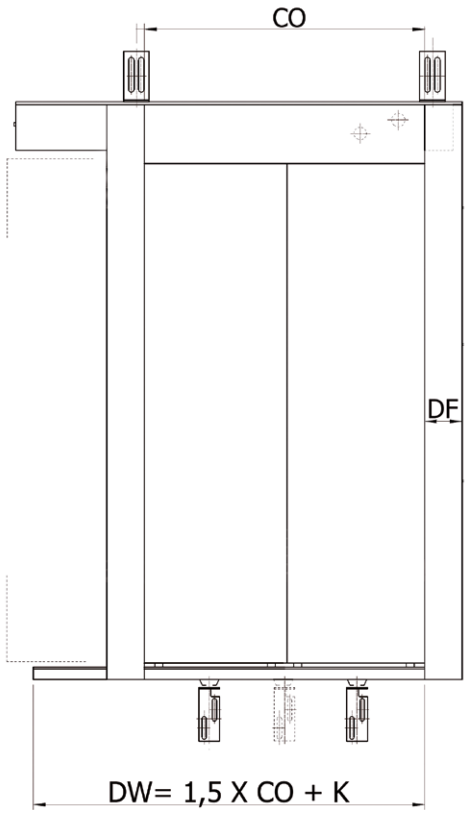
DOORS

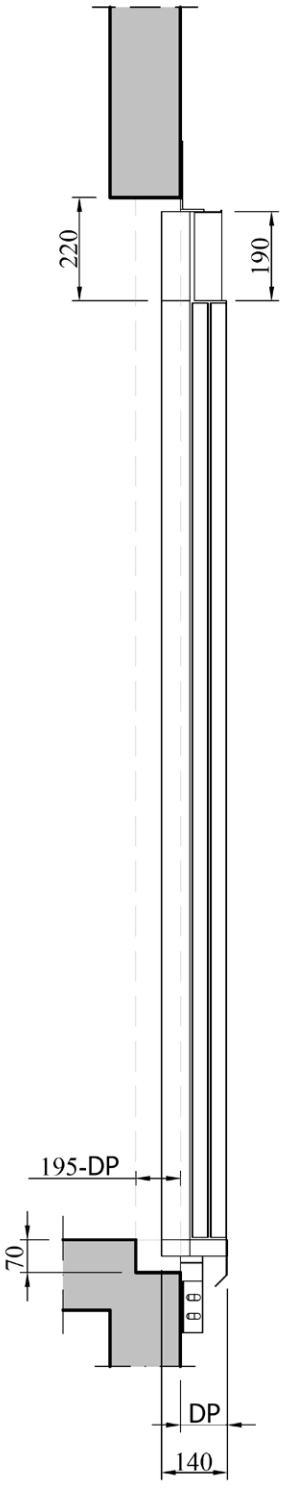
The elevator is available with single and through car (180º) door arrangement.

Standard design allows for two panel side opening door configuration on car and landings with clear openings ranging from 700 to 900 mm in 50 mm steps.

Standard door frame width is 90 mm. The required width for the option to place the control panel in the frame is 150 mm.

Standard door is the Augusta EVO by Wittur. Other configurations and manufacturers upon request.
Finishes are those available from the manufacturer.

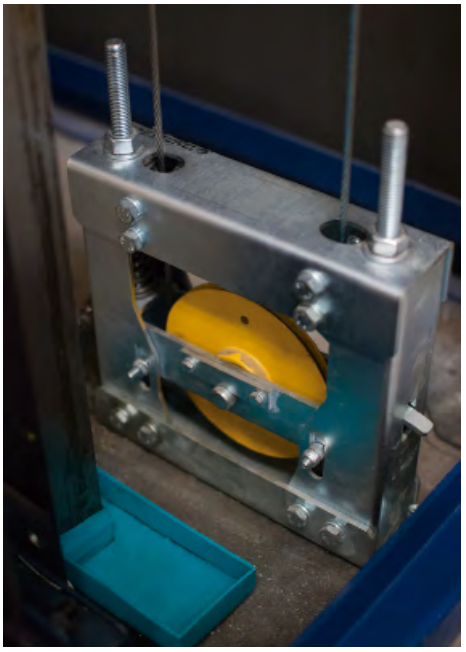




CO=Clear openning 700 - 1000mm.
DF= Landing door frame width. 90mm is standard, 120mm upon request.
DW= Landing door width**.** It is the door width, taking the maximum dimension among the operator width and tracking sill width & door panels width.
K= it is a constant depending on the clear openning.
DP= Landing door projection in the shaft.

SAFETY DEVICES

- Dual safety brake on gearbox.
- Emergency crown wheel blocking.
- Overspeed govenor.
- Instantaneous safety gear.
- Load weighing device.
- Car door locking to EN81.20/50.
- Car doors with closing force limitation, automatic re-opening and obstacle memory feature.
- Full height light curtain to EN81.20/50.
- Contact controlled emergency release lock on landing doors.
- Contact controlled mechanical pit prop to guarantee refuge space for maintenance staff.
- Acoustic emergency alarm.
- Stop switches in pit and on car top.
- Contact controlled maintenance trap door in car for safe maintenance from inside car.

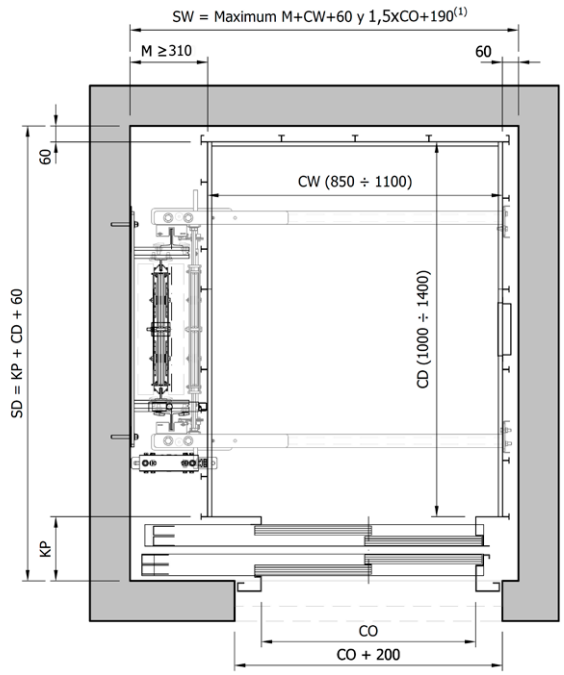




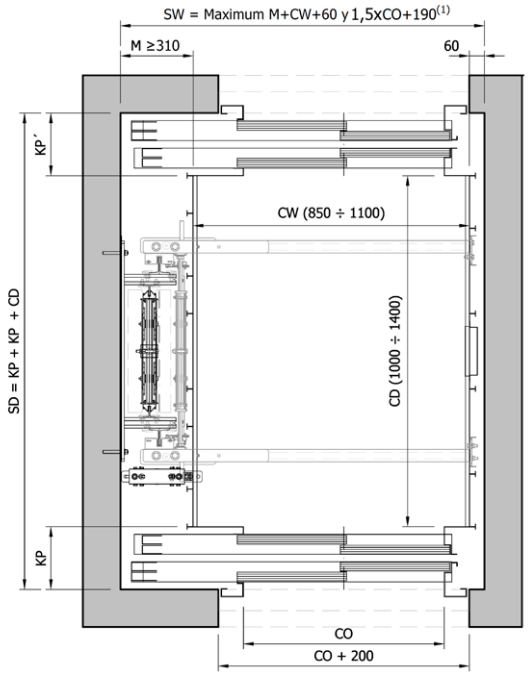


DRAWINGS

PARAMETRIC 1@0º



PARAMETRIC 2@180º



SW= Shaft width.
SD= Shaft depth.
M= Gap between car and wall.
CW = Car width without decoration.
CD = Car depth without decoration.
KP = Landing door sill overhanged + gap between door sills + car door sill width + boarding width.
CO= Door clear opening.
(1) This distance is for Wittur Augusta doors, and can be reduced 25mm for CO ≥ 800mm.

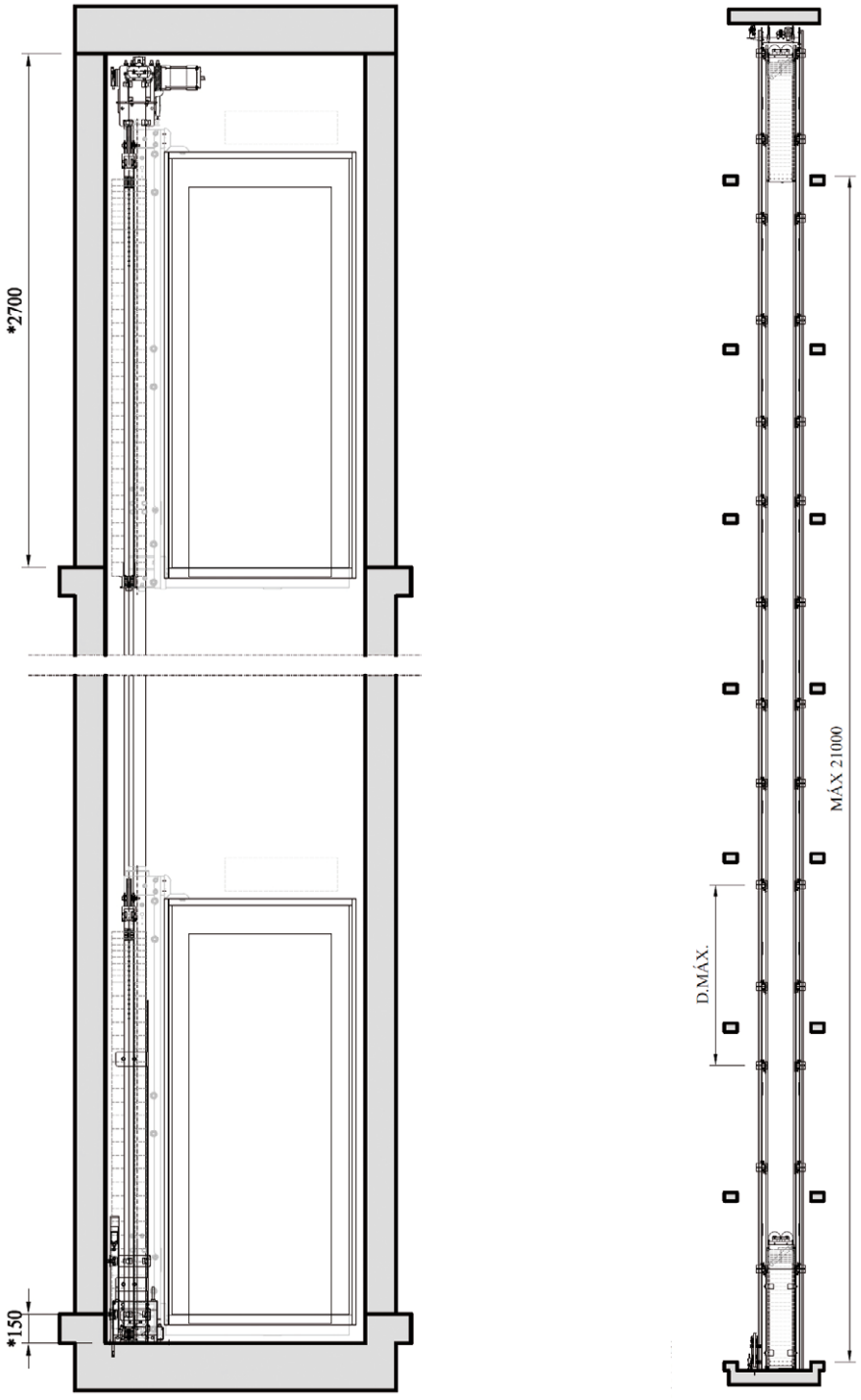
CONFIGURATION WITH THE MECHANICAL PACKAGE MOUNTED ON THE SIDE

MINIMUM SHAFT DEPTH	
ELEVATORS WITH CAR DOORS	DEPTH (MM)
1@0º AUGUSTA DOORS IN THE SHAFT 25 MM	1275
2@180º AUGUSTA DOORS IN THE SHAFT 25 MM	1380
MINIMUM CAR WIDTH 850 MM	
MINIMUM CAR DEPTH 1000 MM	

* No car doors, consult.

DRAWINGS

ELEVATIONS

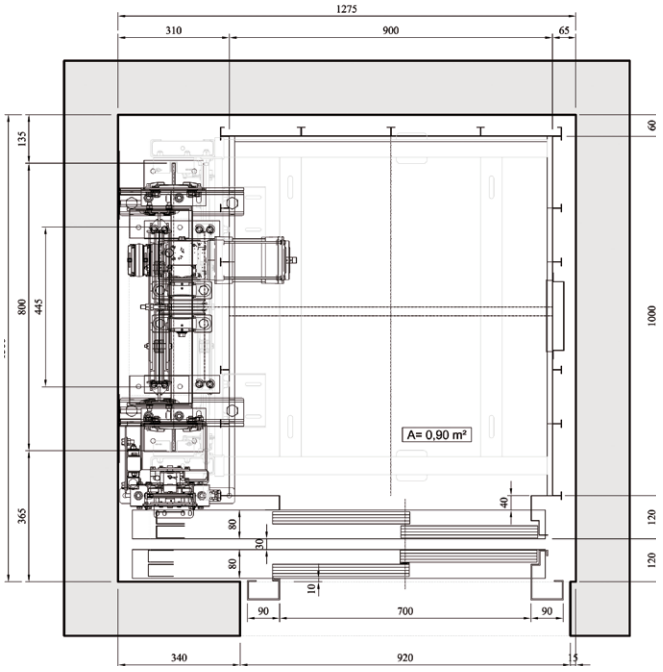


*Specific executions can be made for 100mm pits and 2600mm headroom.

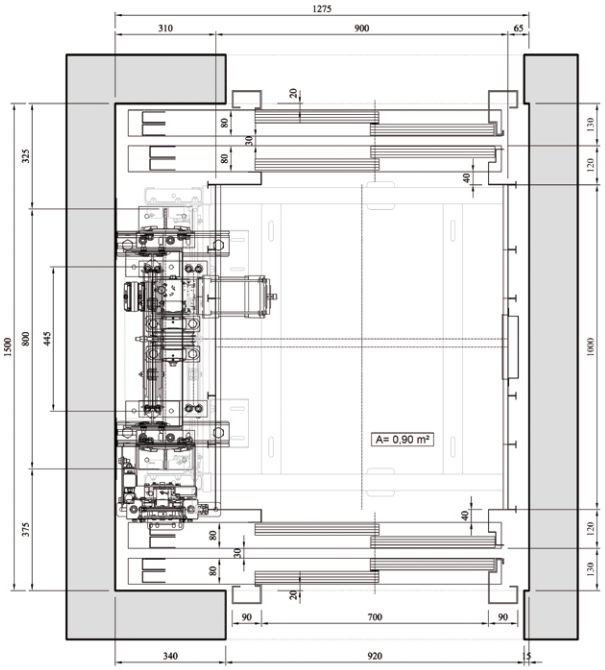
Q	D. MAX These values may be different depending on the Q + F kg.
225 KG	1800 MM
315 KG	1600 MM
385 KG	1200 MM

DRAWINGS

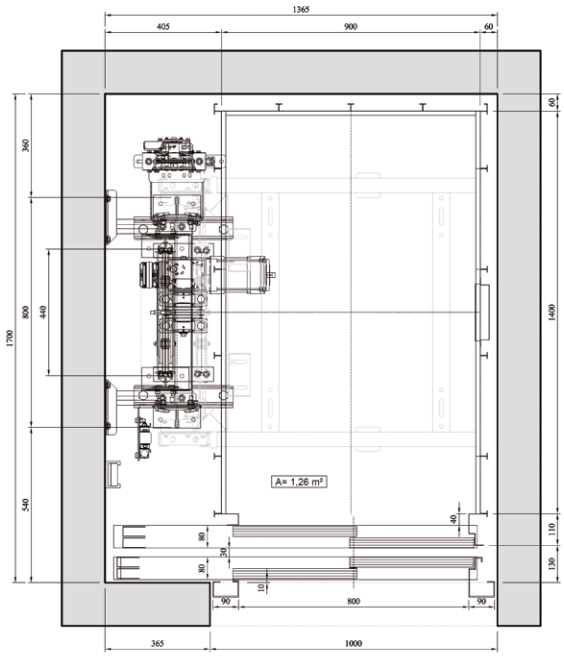
UFE-225KG-1@0º



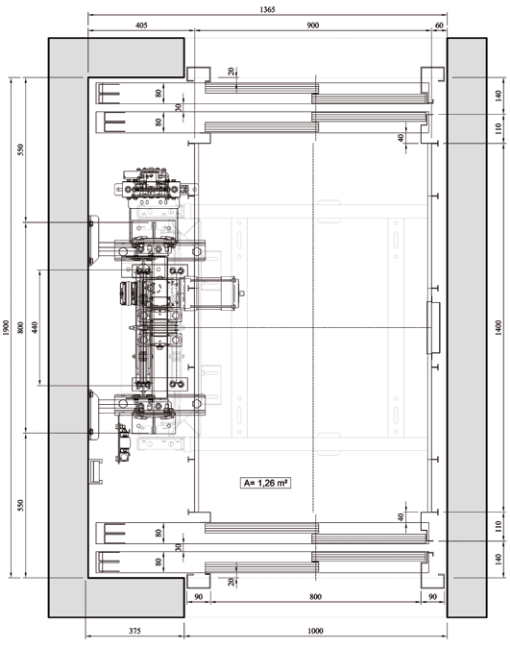
UFE-225KG-2@180º



UFE-315KG-1@0º CAR 900X1400

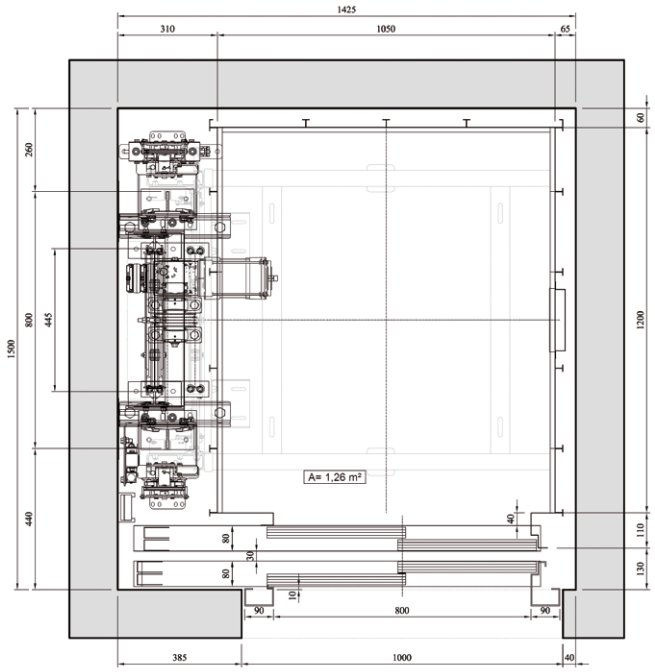


UFE-315KG-2@180º CAR 900X1400

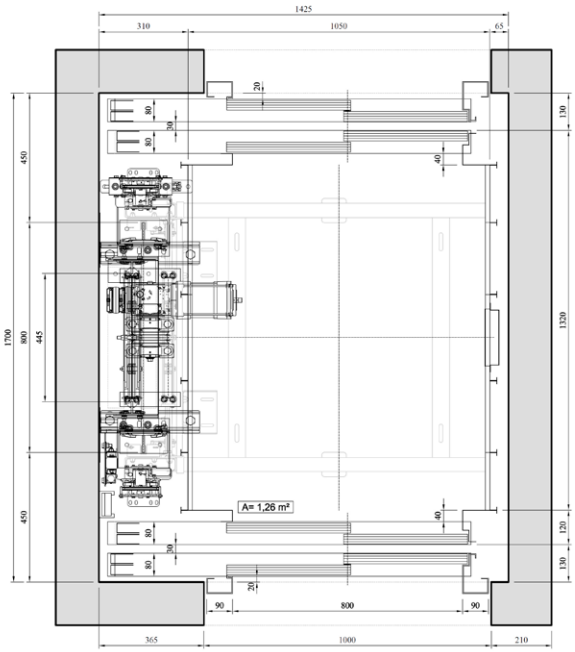


DRAWINGS

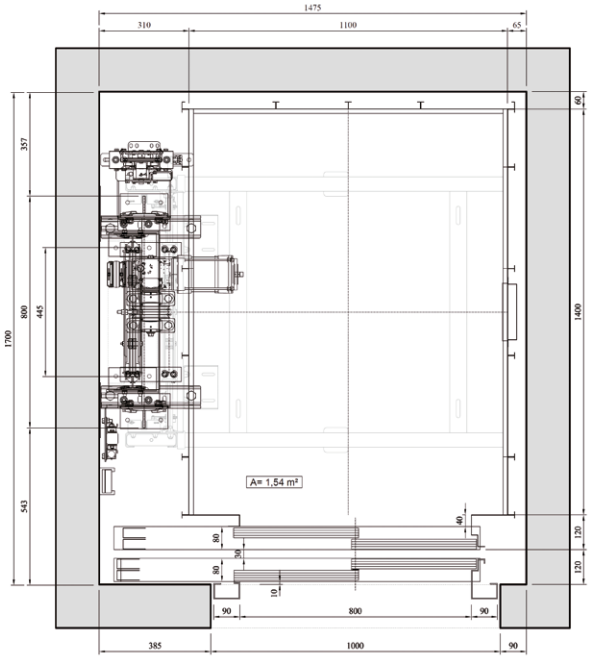
UFE-315KG-1@0º CAR 1050X1200



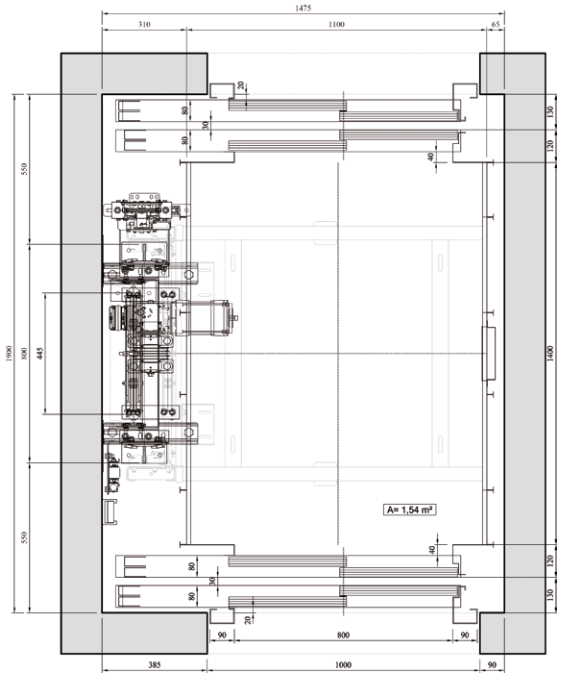
UFE-315KG-2@180º CAR 1050X1200



UFE-385KG-1@0º CO800

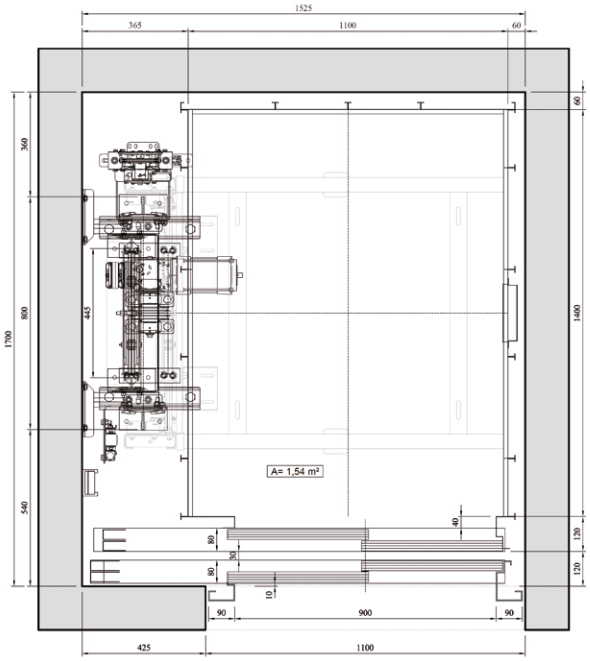


UFE-385KG-2@180º CO800

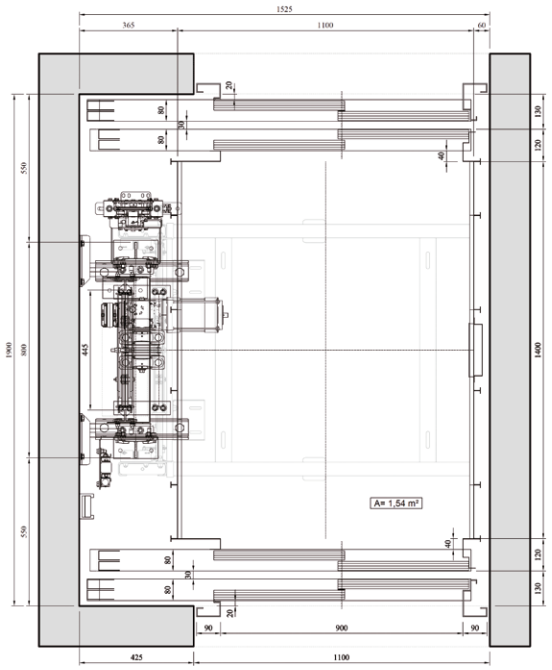


DRAWINGS

UFE-385KG-1@0º CO900



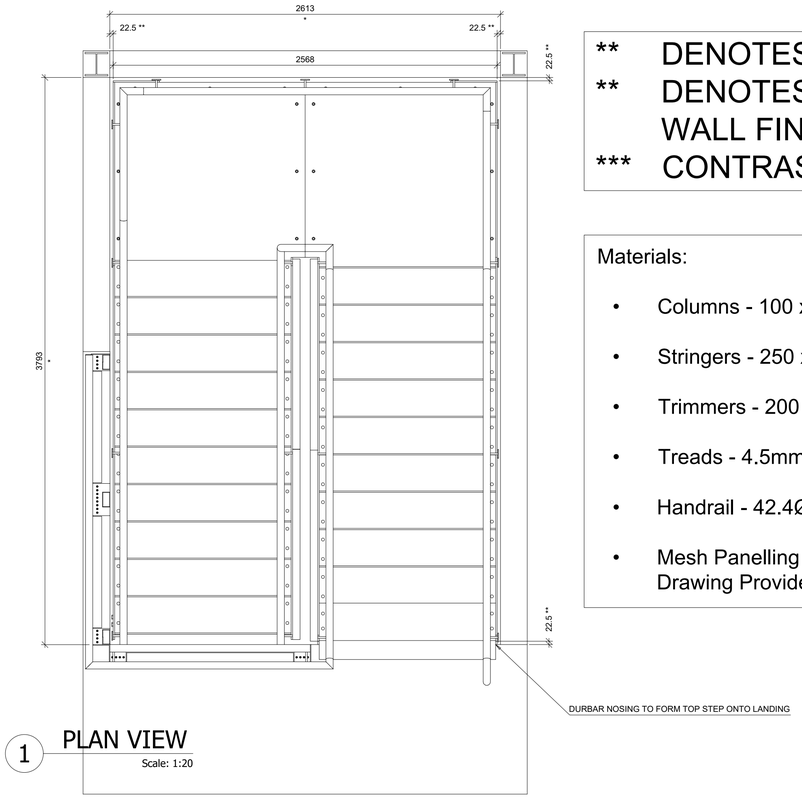
UFE-385KG-2@180º CO900





COMPONENTES DE TRÁFICO VERTICAL
Pol. Ind. La Huertecilla. C/Generación n.44 29004 Málaga (España)
T+34 952 20 71 66
F+34 952 20 32 91
e-mail ctv@ctvlifts.com
www.ctvlifts.com

MRL ELECTRIC TRACTION HOME LIFT **UFE**

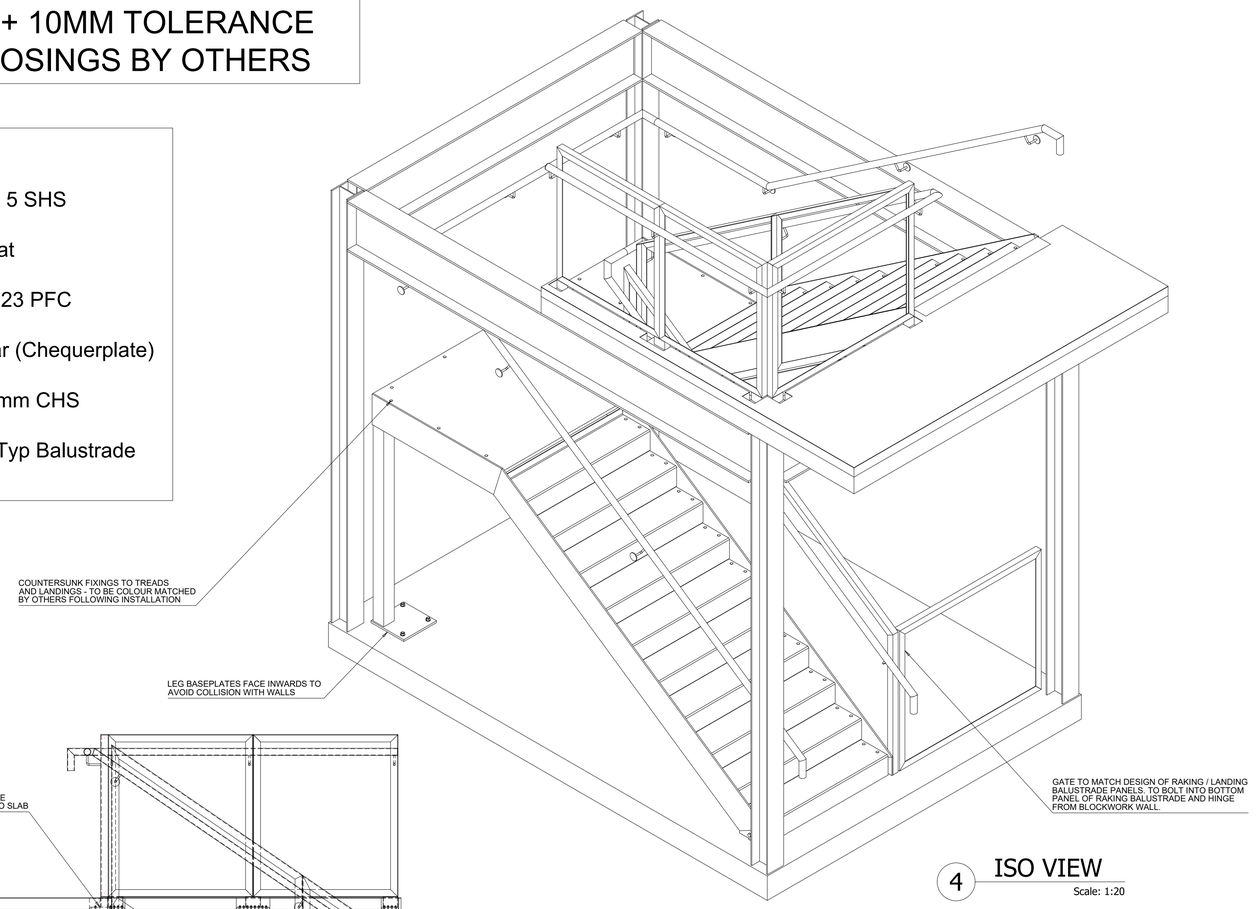


1 PLAN VIEW
Scale: 1:20

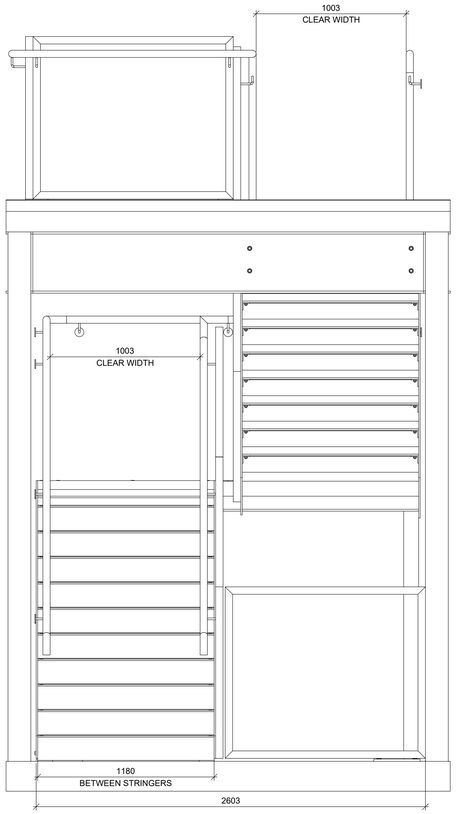
** DENOTES SITE MEASUREMENT
** DENOTES ALLOWANCE FOR 12.5MM WALL FINISH + 10MM TOLERANCE
*** CONTRAST NOSINGS BY OTHERS

Materials:

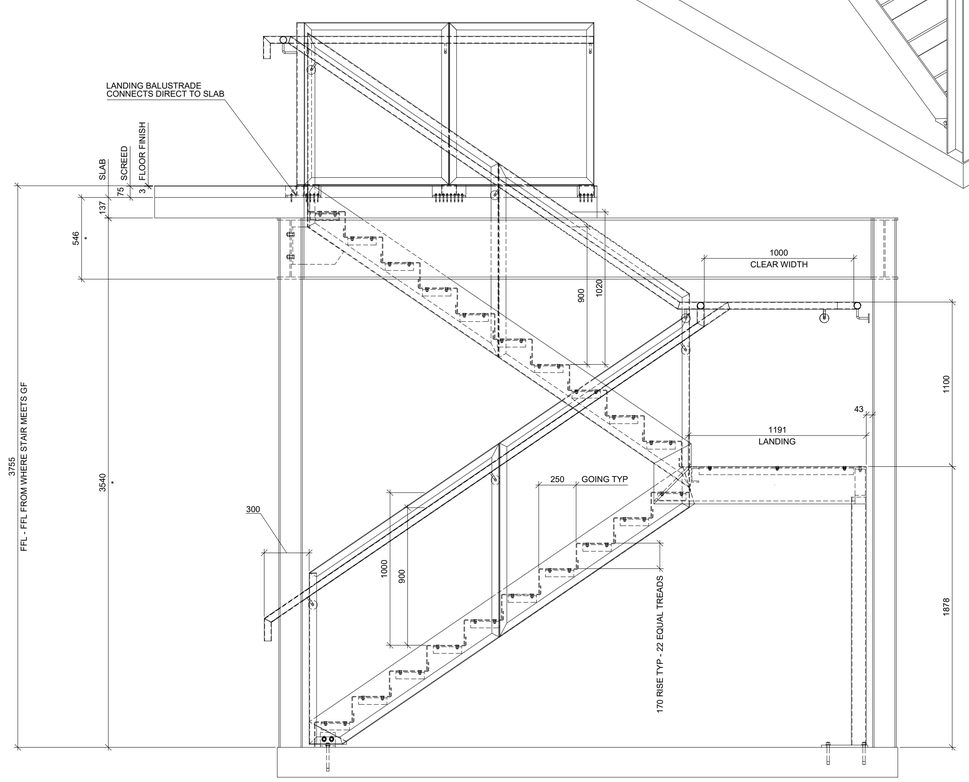
- Columns - 100 x 100 x 5 SHS
- Stringers - 250 x 10 Flat
- Trimmers - 200 x 75 x 23 PFC
- Treads - 4.5mm Durbar (Chequerplate)
- Handrail - 42.4Ø x 2.5mm CHS
- Mesh Panelling - See Typ Balustrade Drawing Provided



4 ISO VIEW
Scale: 1:20



2 FRONT ELEVATION
Scale: 1:20



3 SIDE ELEVATION
Scale: 1:20

QDOC022 REV 1

Template Size: A1

PROJECTION:

General Notes:

- All dimensions in millimeters.
- General working tollarance +/- 5mm.
- All holes Ø18 unless noted otherwise.
- All welds to be 6mm fillet weld or full pen butt weld unless noted otherwise.
- All galvanised closed sections to be vented.
- All open sections, plates & flats grade S275 unless noted otherwise.
- All hollow sections grade S355 unless noted otherwise.

FABRICATION.....
FOLDING.....
CUTTING.....
PUNCH/DRILLING.....

WELDER NO.	WELD TYPE	LOCATION

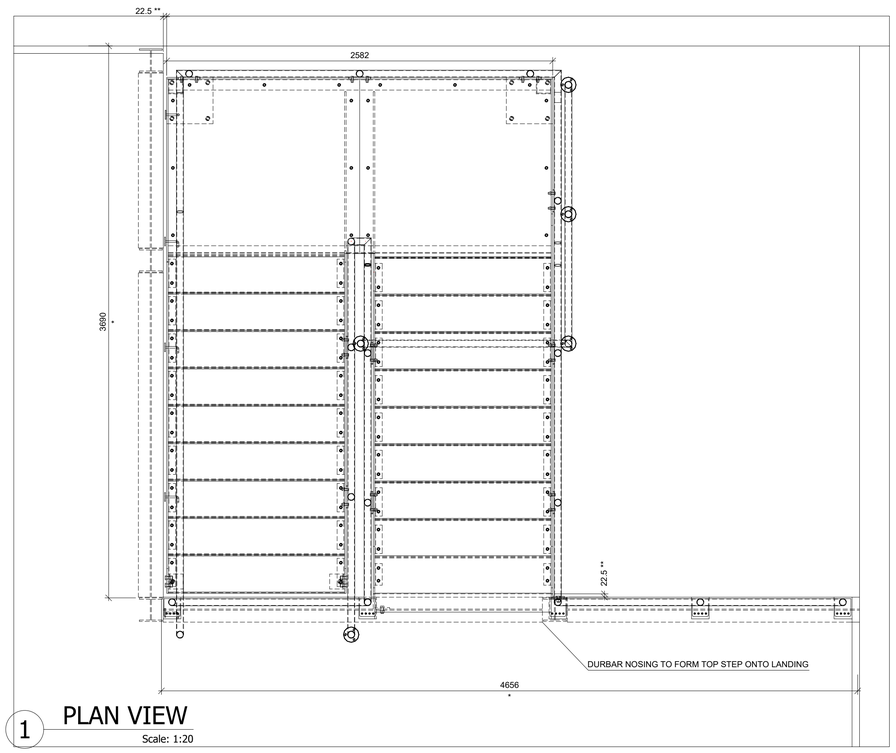
BRADFABS LIMITED
FINAL INSPECTION
PASSED BY:.....
DATE:.....

CONSUMABLES (BATCH NO.) :

BRADFABS LTD
DESIGN FABRICATE INSTALL
Telephone: 01274 400 401 | Email: sales@bradfabs.co.uk

Index	Author	Date	Description

CE EXECUTION CLASS:
FINISH: PPC - RAL 9005 MATTE
DRAWN BY: MH
DATE: 20/11/2024
SCALE: 1:20
CONTRACT: TJM PROJECTS
DESCRIPTION: STAIR 01 - GA
JOB No. 031125
DRG No. [G] - 001
Rev. 00

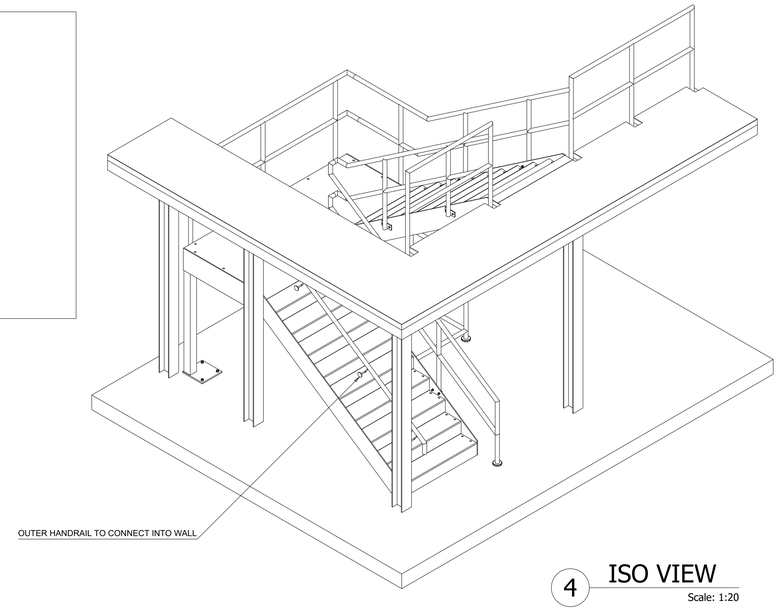


1 PLAN VIEW
Scale: 1:20

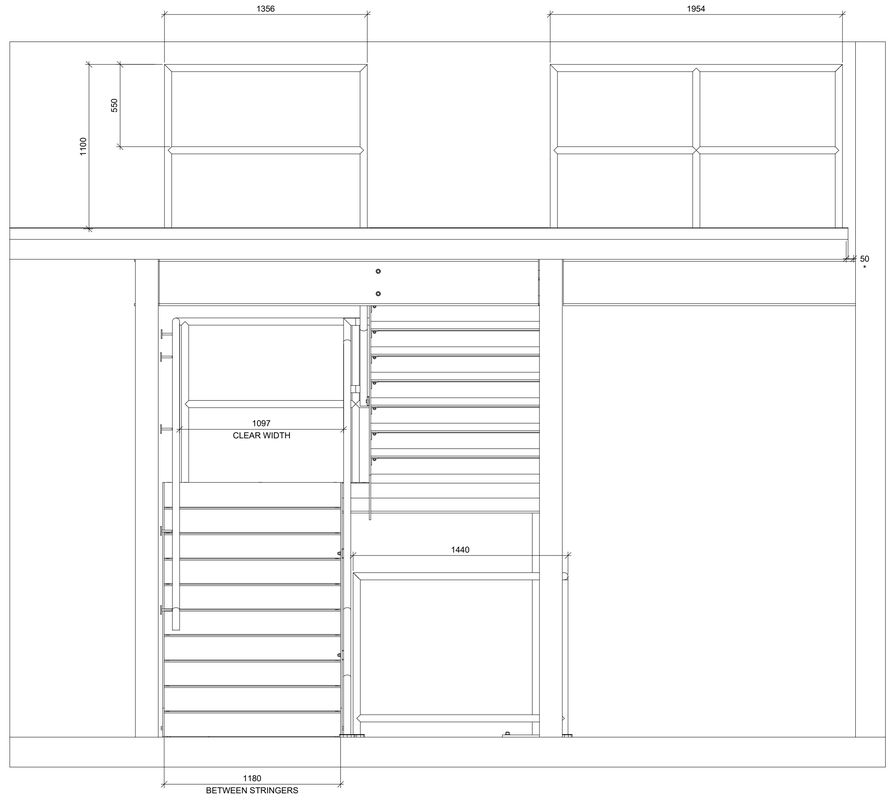
* DENOTES SITE MEASUREMENT
** DENOTES ALLOWANCE FOR 12.5MM WALL FINISH + 10MM TOLERANCE
*** CONTRACT NOSINGS BY OTHERS

Materials:

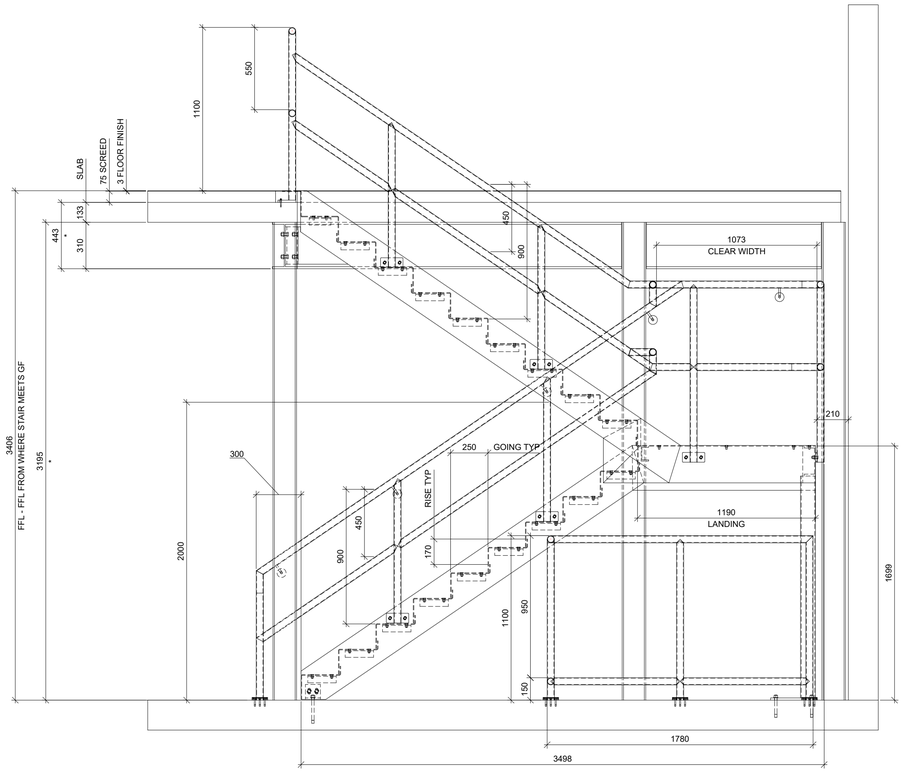
- Columns - 100 x 100 x 5 SHS
- Stringers - 250 x 10 Flat
- Trimmers - 200 x 75 x 23 PFC
- Treads - 4.5mm Durbar
- Handrail - 42.4Ø x 2.5mm CHS



4 ISO VIEW
Scale: 1:20



2 FRONT ELEVATION
Scale: 1:20



3 SIDE ELEVATION
Scale: 1:20

QDOC022 REV 1

PROJECTION:

Template Size: A1

General Notes:

- All dimensions in millimeters.
- General working tollarance +/- 5mm.
- All holes Ø18 unless noted otherwise.
- All welds to be 6mm fillet weld or full pen butt weld unless noted otherwise.
- All galvanised closed sections to be vented.
- All open sections, plates & flats grade S275 unless noted otherwise.
- All hollow sections grade S355 unless noted otherwise.

FABRICATION.....
FOLDING.....
CUTTING.....
PUNCH/DRILLING.....

WELDER NO.	WELD TYPE	LOCATION

BRADFABS LIMITED
FINAL INSPECTION
PASSED BY:.....
DATE:.....

CONSUMABLES (BATCH NO.) :

BRADFABS LTD
DESIGN FABRICATE INSTALL
Telephone: 01274 400 401 | Email: sales@bradfabs.co.uk

Index	Author	Date	Description

CE EXECUTION CLASS:
FINISH: PPC - RAL 9005 MATTE

DRAWN BY: MH
DATE: 22/11/2024
SCALE: 1:20

CONTRACT: TJM PROJECTS

DESCRIPTION: STAIR 02 - GA

JOB No. 031125
DRG No. [G] - 001
Rev. 00

QDOC022 REV 1

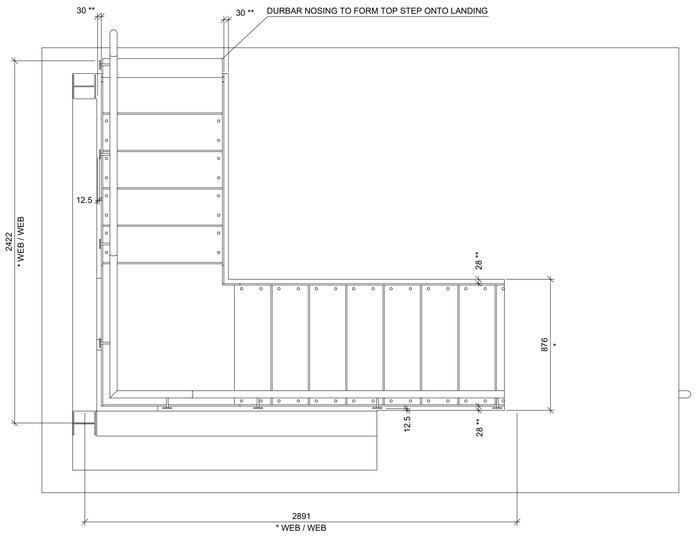
Template Size: A1

PROJECTION:

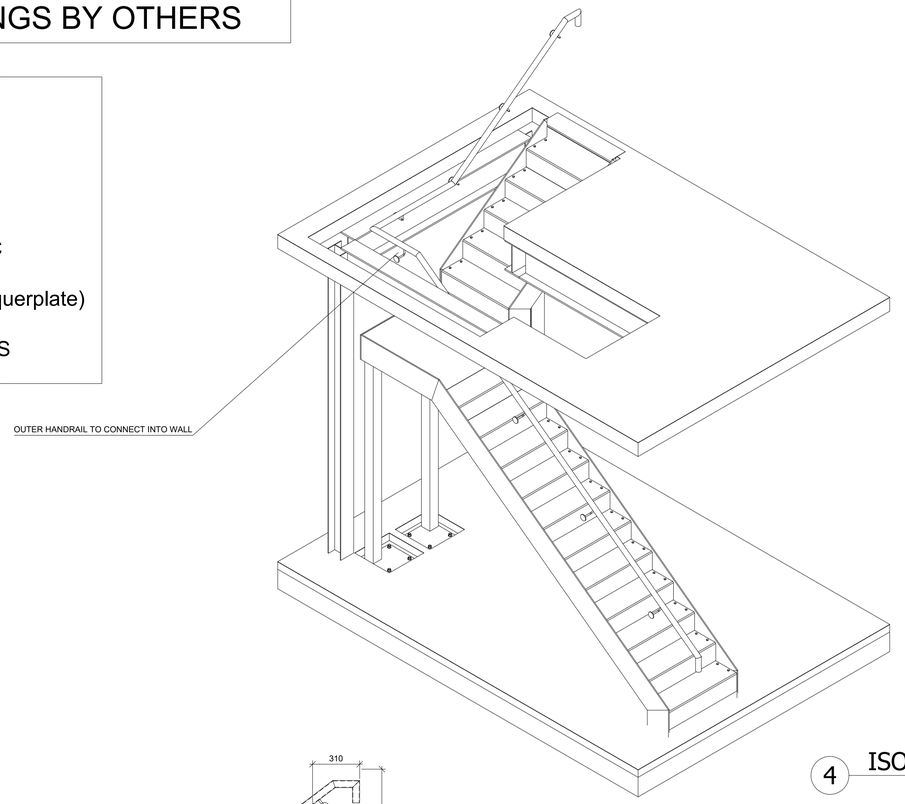
*	DENOTES SITE MEASUREMENT
**	DENOTES ALLOWANCE FOR 12.5MM WALL FINISH + TOLERANCE
***	CONTRACT NOSINGS BY OTHERS

Materials:

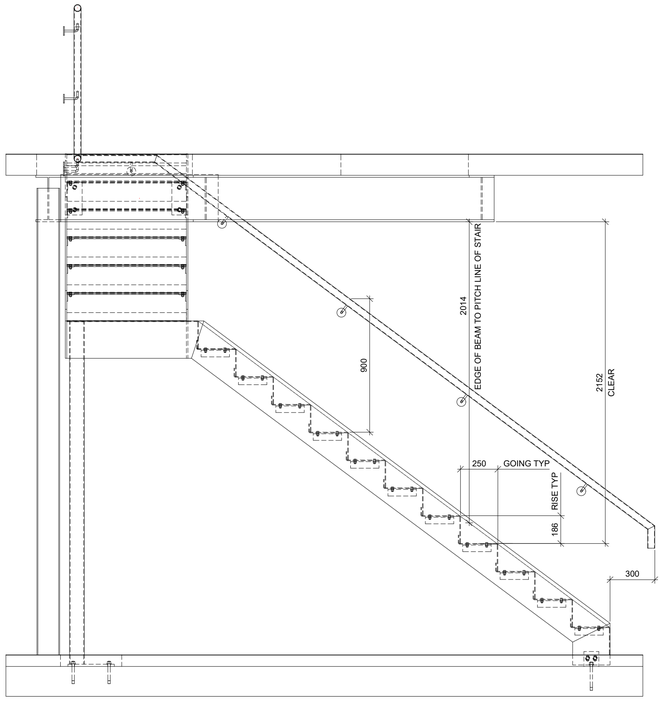
- Columns - 100 x 100 x 5 SHS
- Stringers - 250 x 10 Flat
- Trimmers - 200 x 75 x 23 PFC
- Treads - 4.5mm Durbar (Chequerplate)
- Handrail - 42.4Ø x 2.5mm CHS



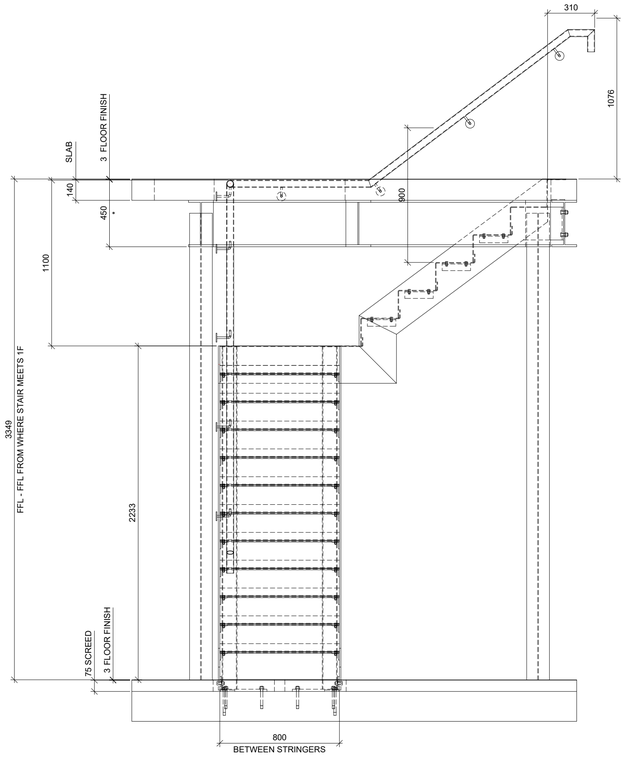
1 PLAN VIEW
Scale: 1:20



4 ISO VIEW
Scale: 1:20



2 FRONT ELEVATION
Scale: 1:20



3 SIDE ELEVATION
Scale: 1:20

General Notes:

- All dimensions in millimeters.
- General working tollarance +/- 5mm.
- All holes Ø18 unless noted otherwise.
- All welds to be 6mm fillet weld or full pen butt weld unless noted otherwise.
- All galvanised closed sections to be vented.
- All open sections, plates & flats grade S275 unless noted otherwise.
- All hollow sections grade S355 unless noted otherwise.

FABRICATION.....
FOLDING.....
CUTTING.....
PUNCH/DRILLING.....

WELDER NO.	WELD TYPE	LOCATION

BRADFABS LIMITED
FINAL INSPECTION
PASSED BY:.....
DATE:.....

CONSUMABLES (BATCH NO.) :

BRADFABS LTD
DESIGN FABRICATE INSTALL
Telephone: 01274 400 401 | Email: sales@bradfabs.co.uk

Index	Author	Date	Description

CE EXECUTION CLASS:	FINISH: PPC - RAL 9005 MATTE

DRAWN BY:	DATE:	SCALE:
MH	22/11/2024	1:20

CONTRACT: TJM PROJECTS

DESCRIPTION: STAIR 03 - GA

JOB No.	DRG No.	Rev.
031125	[G] - 003	00

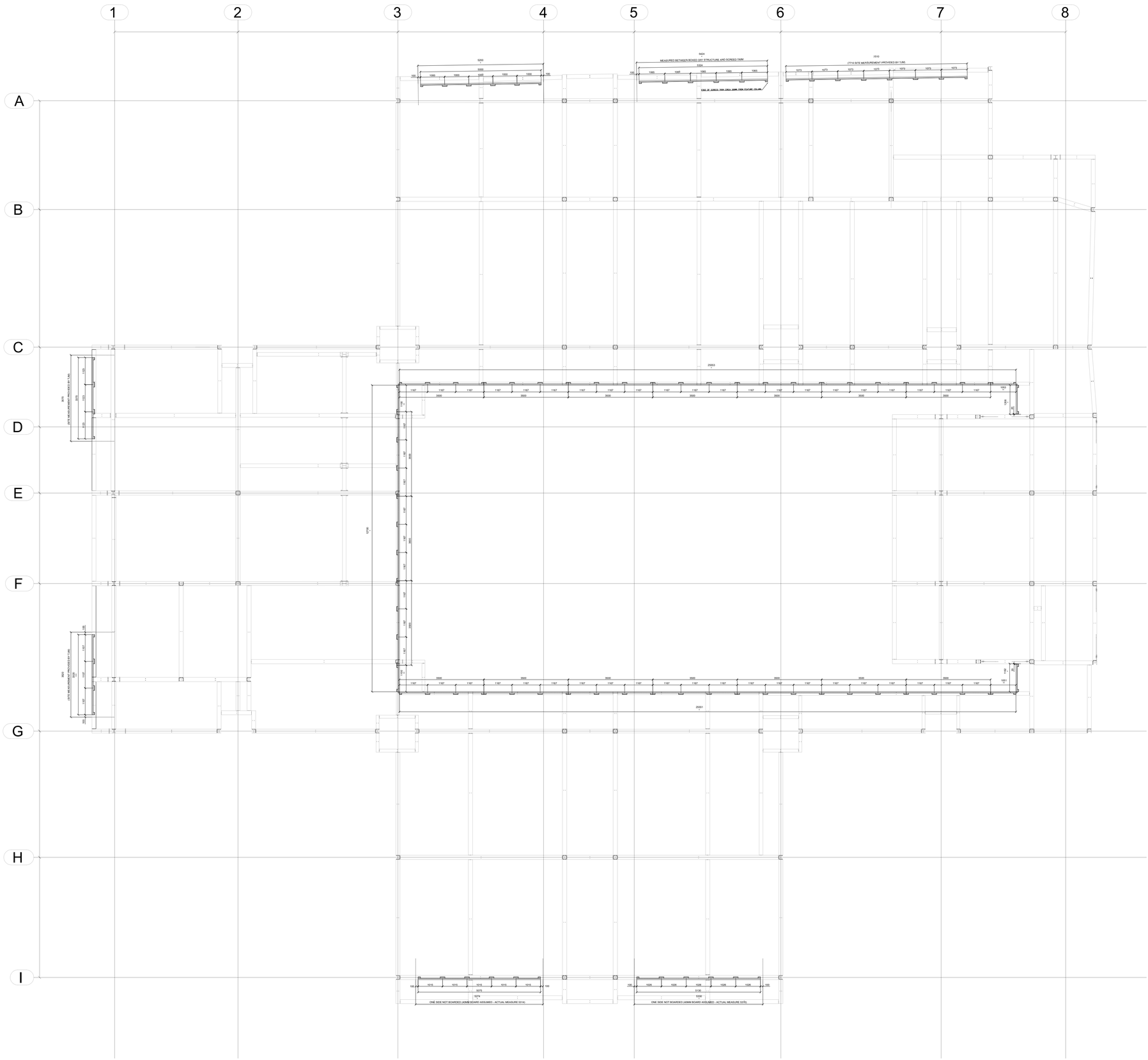
* SITE MEASUREMENT TAKEN

** CLOSING PANEL - TO BE MEASURED DURING INSTALL FOR ACCURACY

MATERIALS:

BALUSTRADE
- 50*50*5 ANGLE FRAME
- 50*50*3 MESH INFILL PANELS

120*15 BASE PLATES



QDOC022 REV 1

PROJECTION:

Template Size: A1

General Notes:

- All dimensions in millimeters.
- General working tolerance +/- 3mm.
- All holes 18Ø unless noted otherwise.
- All welds to be 6MM fillet weld of full pen butt weld unless noted otherwise.
- All galvanised closed sections to be vented.
- All open sections, plates & flats grade s275 unless noted otherwise.If in doubt ask.

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DESIGN FABRICATE INSTALL
Telephone: 01274 400 401 | Email: sales@bradfabs.co.uk

CLIENT
TJM PROJECTS

PROJECT
UPPER CAMPFIELD

DRAWING TITLE
BALUSTRADE MEZZANINE FLOOR

DRAWN BY	CHECKED BY	DATE	SCALE
MH		05/12/2024	

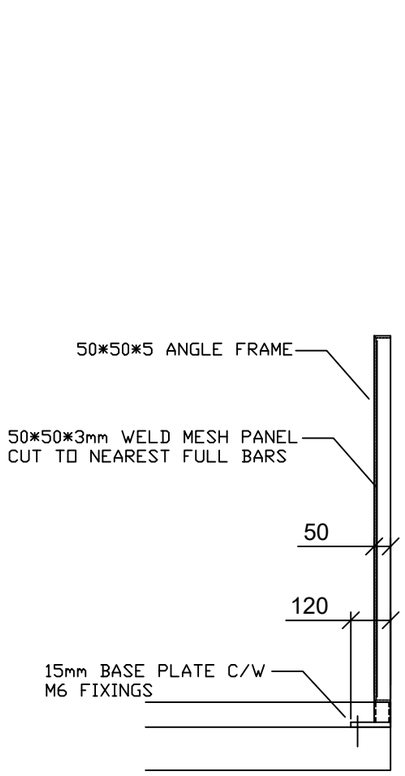
PROJECT No.	DRAWING No.	REV
31125	[G] - 001	00

PROJECTION:

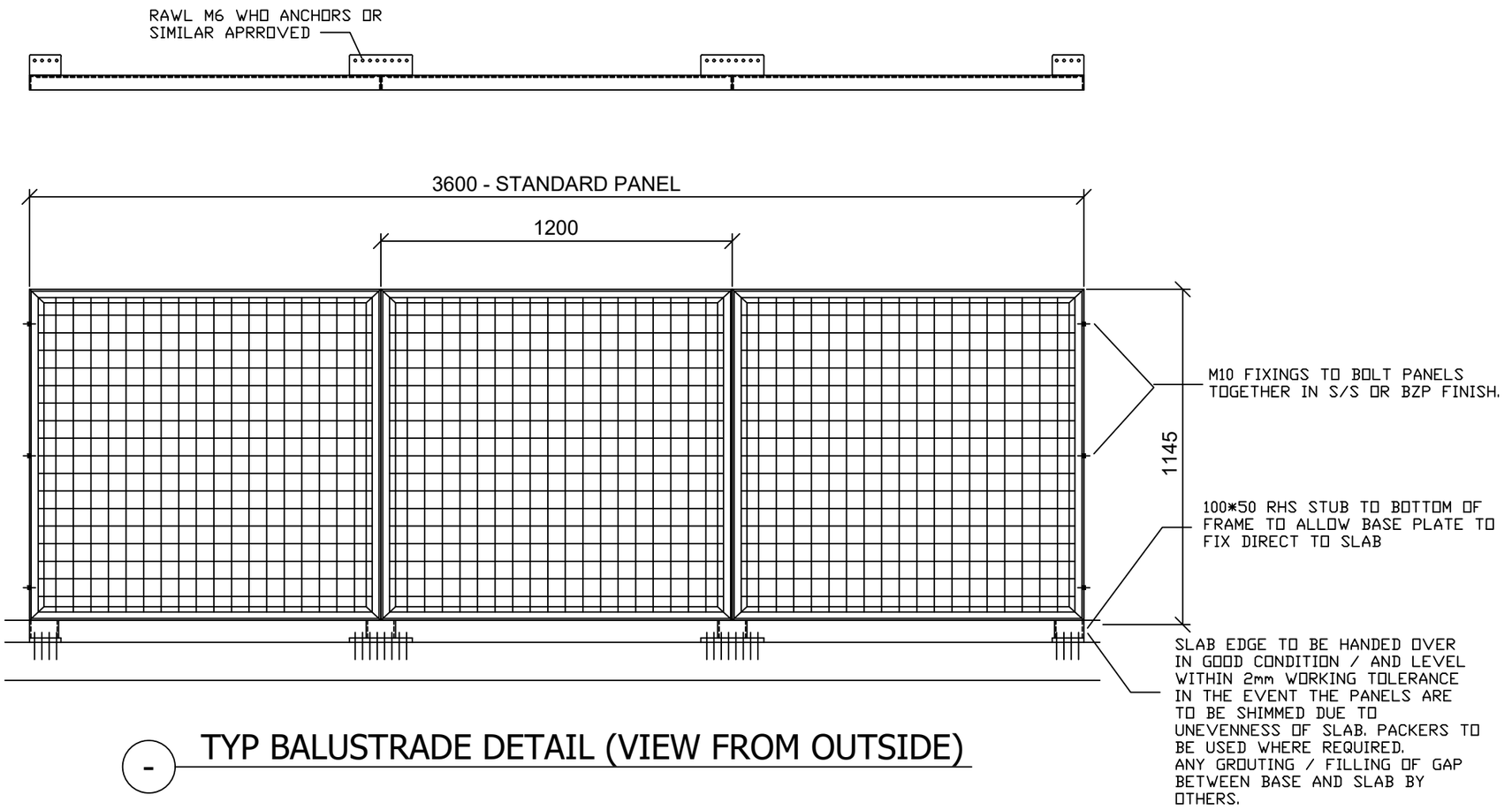
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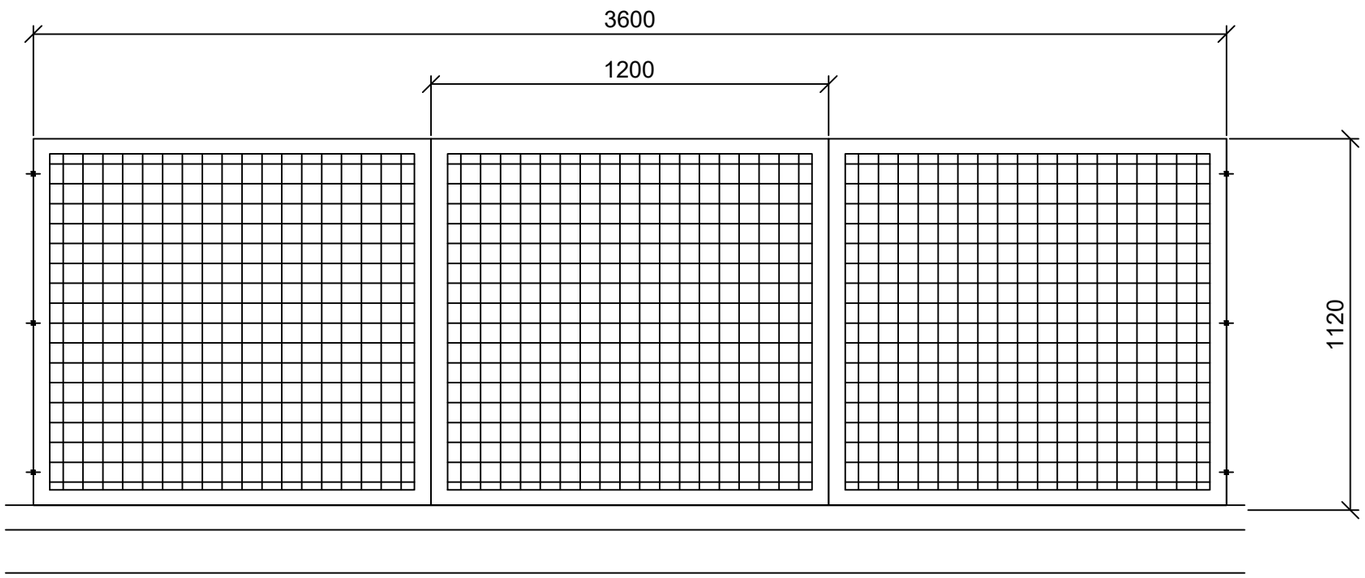
- All dimensions in millimeters.
- General working tolerance +/- 3mm.
- All holes 18Ø unless noted otherwise.
- All welds to be 6MM fillet weld of full pen butt weld unless noted otherwise.
- All galvanised closed sections to be vented.
- All open sections, plates & flats grade s275 unless noted otherwise.If in doubt ask.



- TYP SECTION



- TYP BALUSTRADE DETAIL (VIEW FROM OUTSIDE)



- TYP BALUSTRADE DETAIL (VIEW FROM MEZZANINE)

BRAD

CLIENT: TJM PROJECTS

PROJECT: UPPER CAMPFIELD

DRAWING TITLE: PROPOSED TYPICAL BALUSTRADE DETAIL

DRAWN BY	CHECKED BY	DATE	SCALE

PROJECT No.	DRAWING No.	REV
31125	[G] - 100	-