

1 Curtain Walling - Type 1
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2 Curtain Walling - Type 2 & External Door - Type 1
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Curtain Wall Schedule

The design is to be carried out by the Contractor to meet the design criteria outlined below and indicated on the drawings and as referenced within section H11 of the preamble's specification. The following is to be incorporated into the design. The Contractor is to forward to the EA prior to works commencing a full method statement indicating how they intend to carry out the works. This must include the following prior to commencing works.

- Proposed system details and specification plus evidence of system performance
- Details of proposed installer;
- Details of aluminium sections, including drawings;
- The proposed method of fixing, including drawings;
- Details of warranty for materials and workmanship;
- Details of ironmongery, fittings and fixings.

The Contractor must provide a full priced specification. Omissions of any of the above will prevent the tender from being considered.

Before starting work the contractor shall be responsible for taking site dimensions for all designated items, record on shop drawings and use to ensure accurate fabrication.

Allow for the design, supply and installation of powder coated aluminium zone drained, pressure equalized curtain walling systems to BREEAM 'A' rating to incorporate multi-chamber thermal break core, in accordance with Approved Document L2. The casement windows, external doors, curtain walling and all associated glazing shall be designed and installed to achieve a minimum 40-year design life. The system shall be fully installed by approved CWCT systems installer.

All new casement windows shall be thermally broken, and be weather performance tested by a UKAS accredited authority as outlined within BS EN 12207:2000 and meet Air Permeability Class 4, Water tightness Class 9A and resistance to wind load class AE2400

All windows, doors and curtain walling systems shall be independently certified to achieve LPS 1175 SR3 or above.

Where casement windows are provided within the curtain walling systems shall be designed to incorporate trickle ventilation to achieve background ventilation in accordance with Part F of the building regulations.

Curtain walling shall be max. 50mm wide mullion drained curtain walling system with fully capped transoms and mullions as indicated. The Curtain walling system shall incorporate a dry jointed method, using EPDM mouldings, and shall be tested and approved to 'CWCT sequence B' to provide Air permeability: 600Pa A4, Water tightness: 600Pa R7, Wind resistance (serviceability): 2400Pa, Wind resistance (safety): 3600Pa.

Between internal and external surfaces of windows and curtain walling, the completed system shall achieve a sound reduction of **not less than Rw 26 dB**.

Powder coating of all elements to be undertaken in accordance with BS 6496:1984, contractor shall allow for RAL or BS Standard colours, TBC. All powder coating with minimum film thickness of not less than 60 microns.

The contractor shall design the system, including the sizing of any support structure and perimeter fixings to suit the design wind loading obtained from relevant wind loading tables, with all calculations provided to the CA for approval prior to commencement of works. The completed systems, including all glazing, casement windows and spandrel panels shall achieve a U-Value of not less than 1.4 W/M²K.

The completed casement window, curtain walling and glazing installation shall be supplied with an insurance backed min. 10-year guarantee for materials, plus min. 25-year guarantee for finishes. The guarantee shall include for contractor insolvency, Workmanship, all system components, and any system design provided by the manufacturer. In the event of water penetration during the guarantee period resulting from product failure due to defective manufacture, defective design or defective installation of the waterproofing materials, the cover shall ensure the make good by repair or replacement, the waterproofing integrity of the system together with any direct damage to the building fabric and contents.

At all abutments with adjacent masonry surfaces, new frames shall be fully fixed using frame cramps or similar fixings as required to meet design criteria for wind loading, impact resistance and burglary resistance. To perimeter of all frames, provide all required self-adhesive EPDM seals, neoprene backing rods, expanding foam sealants, silicone sealants and the like to ensure water and air tight seal between frames and adjacent structure. All to be fully installed in accordance with window manufacturers details and approved specifications.

Manifestation

To all glazing with cill level below 800mm, allow for the supply and application of Digitally Printed artwork onto (min) 70-micron polymeric self-adhesive calendared vinyl, supplied clear. All installed fully as manufacturers recommendations. Digital Image to be provided to main contractor by client at pre-start meeting. Manifestation shall be installed to full width of glazed panel, and shall be 1000mm high, installed at 600mm above FFL. All in accordance with Approved Document Part K and Part M regulations.

External Door Specification

Allow for the design, supply and installation of powder coated aluminium thermally broken commercial external doors to be designed and installed to achieve a minimum 40-year design life. The system shall be fully installed by approved CWCT systems installer.

All new doors shall be independently certified to achieve PAS24-1:1999 or better.

Where new doors are to be provided as part of a curtain walling system, the doors shall be supplied and installed by the same supplier and manufacturers to ensure consistency of guarantee.

All external door leafs shall be provided with rotating anti-finger trap hinges and DDA compliant threshold.

All doors shall be provided with glazing or infill panels as indicated within adjacent specification.

Access Control

To doors noted to require access control, allow for the supply and installation of electronic access control system to match and extend existing system. The contractor is to include for all necessary equipment including, but not limited to, card readers, programmers, push to exit buttons on opposite side. The swipe cards to be used to gain access are the staff cards and therefore the contractor shall allow of liaising with the clients chosen supplier to agree details for programming etc. Include for all wiring, connections and installation works in accordance with manufacturer's guidelines and Electrical consultant's details. Access controls to be linked with the Fire Alarm to 'FAIL SAFE OPEN'.

All doors to be installed with ironmongery and door furniture as detailed below:

EX_DOOR TYPE 1

New external PPC double doorset to entrance lobby to include:

- Full length brushed stainless steel door pull handle approximately 45mm diameter.
- 2no security hook deadlocks to main leaf, 2no. flush bolts to top and bottom of slave leaf.
- Integration of Access Control System swipe card and magnetic locks, all to be linked with main College in accordance with specification above and electrical consultant drawings
- Integral closer (WITHOUT 90 degree hold open).
- Rotating anti-finger trap hinges.
- DDA compliant threshold

EX_DOOR TYPE 2

New external PPC single fire exit doorset to include:

- Emergency push pad with integral mechanism locating into frame top and bottom.
- Integration of external override key access and handle
- Integral closer (WITHOUT 90 degree hold open).
- Rotating anti-finger trap hinges.
- DDA compliant threshold

Glazing Specification

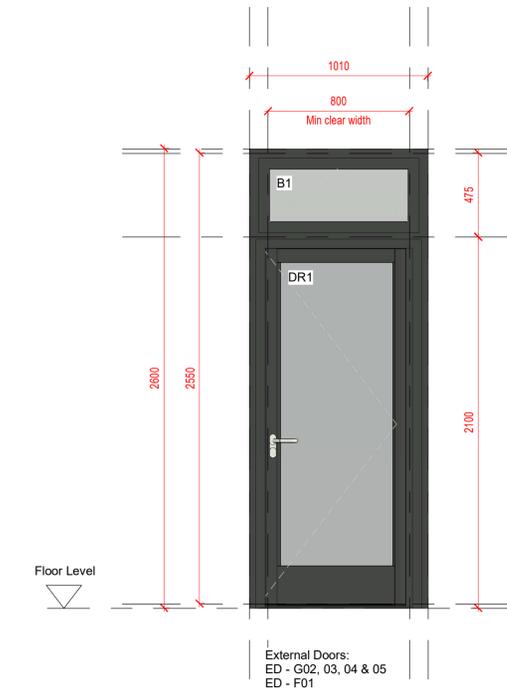
Glazing Installation Generally
Between all abutments to masonry reveals, the contractor shall include for closing all voids with expanding foam, plus neoprene backing rod and neat, color matched polysulphide sealant between window frame and wall.

DR) New External access/egress door New External access/egress door with glazed/solid panel unit as 1 or 2 as above. Refer to external door specifications as adjacent.

A) Fixed glazed pane into window gaskets
Fixed position double glazed unit into window gaskets as 1 detailed below.

B) Top Hung, outward opening restricted opening light
Allow for glazing into casement window frame gaskets new top hung window unit to include min. 2no. stainless steel friction hinges, with non-releasable restrictors to limit opening to max. 100mm projection from building face. 1no. espagnolette keyed lockable handle operating multi-point locking system. The opening light shall receive glazed unit as 1 or 2 as detailed above.

1 - 28mm thick double-glazed unit
28 mm thick insulating glass overall to BS 5713, hermetically sealed and kitemark certified. The external leaf will be minimum 7.5 mm Guardian Climaguard A (or similar and equal approved) 68/37 toughened outer pane, with 16 mm argon gas filled cavity. The internal leaf will be minimum 6.4 mm laminated clear glass with Low E coating, all to achieve a center pane U value of 1.4 W/M² K, and to achieve a weighted average U value as stated adjacent. All glazing to comply to BS6262.



3 External Door - Type 2
1 : 20

Rev	Description	Date	Dr by	App by
original by		date created		
Author		04/05/22		Approver



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client name	
Huddersfield New College	
project	
Post 16 New Build	
drawing	
Proposed Curtain Wall & External Door Schedule	
computer file	plot date
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drawing number	rev
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