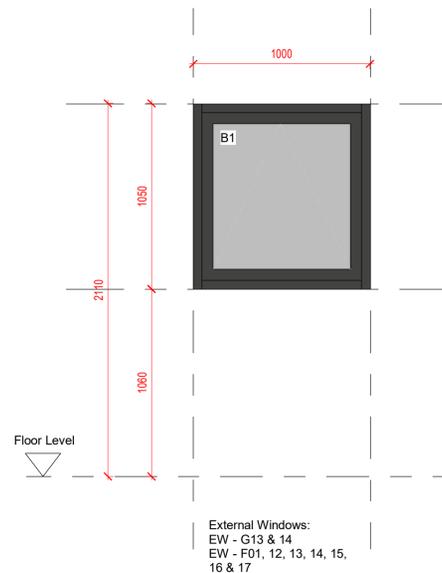


**1 External Window - Type 1**  
1 : 20



**3 External Window - Type 3**  
1 : 20

#### Window 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 casement window system to BREEM 'A' rating to incorporate multi-chamber thermal break core, in accordance with Approved Document L2. The casement windows, 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 window systems shall be independently certified to achieve LPS 1175 SR3 or above.

All new window systems shall be designed to incorporate trickle ventilation to achieve background ventilation in accordance with Part F of the building regulations.

The new casement window system shall be constructed from extruded Aluminium alloy to BS EN 755 part 9:2008, with all gaskets and seals to BS3734 to match existing.

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

The completed systems, including all glazing to doors shall achieve a U-Value of not less than 1.6 W/m<sup>2</sup>K.

Window units shall be tested in accordance with EN 20140 - 3 to achieve the stated minimum required sound reduction values.

The contractor shall design the system, including the sizing of any supports 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 casement window, curtain walling and glazing installation shall be supplied with an insurance backed min. 40-year guarantee. 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.

Contractor is to note all M&E services positions and locations and incorporate where possible, covered rebates to accept wiring to these mechanisms associated with windows and doors. Where not possible every attempt should be made to conceal and / or neatly fix the associated fixings.

All windows / curtain walling sections and trims etc. to be finished to match the existing color and finish.

Ground floor windows to be restricted and provide 100mm opening for bottom pane and 200mm for top pane.

All openable windows are to have manual opening operation with key locks unless specified otherwise. Fastenings should be easily accessible for opening and closing windows, located between 800 and 1000mm above floor level.

#### Glazing Specification

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 7.5mm 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 6.0mm toughened/6.4 mm laminated clear with Low E coating, all to achieve a center pane U value of 1.4 W/M<sup>2</sup> K, and to achieve a weighted average U value as stated adjacent. All glazing to comply to BS6262.

#### Window Installation Generally

Window types A and B shall be a casement window type unit in full accordance with the above performance specification adjacent and shall match the exact style and installation of existing Aluminium casements installed elsewhere within the school.

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.

A) Fixed glazed pane into window gaskets Fixed position double glazed unit into window gaskets as 1 or 2 as detailed above.

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 / 200mm projection from building face. 1no. espagnolette keyed lockable handle operating multi-point locking system. The opening light shall receive glazing unit as 1 detailed above.

A	Glazing specification outer pane amended and upgraded	14.06.22	RB	KD
Rev	Description	Date	Dr	App
original by	date created	approved by		
Author	04/05/22	Approver		



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client name	Huddersfield New College		
project	Post 16 New Build		
drawing	Proposed External Window Schedule		
computer file	plot date		
H:\BC\H\0222\2022\20023.000 - Huddersfield New College - New Teaching Block 2022.dwg		2022.00023.000	
project number	scale		
2022.00023.000	As indicated@A1		
drawing number	rev	issue	status
AHR-ZZ-SC-31-001	A		
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