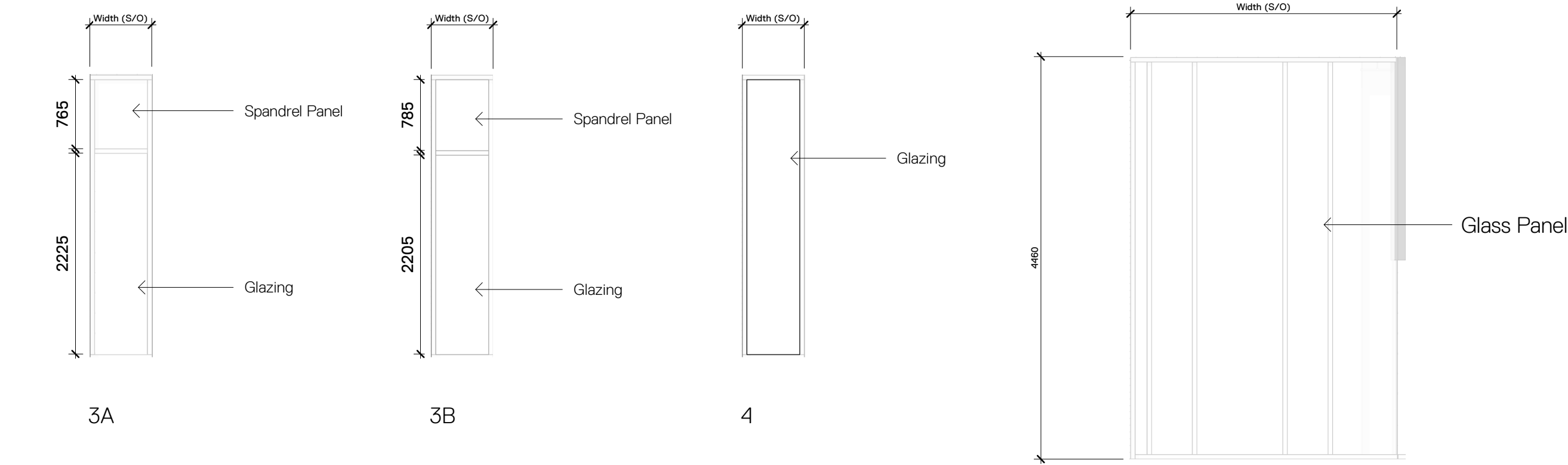


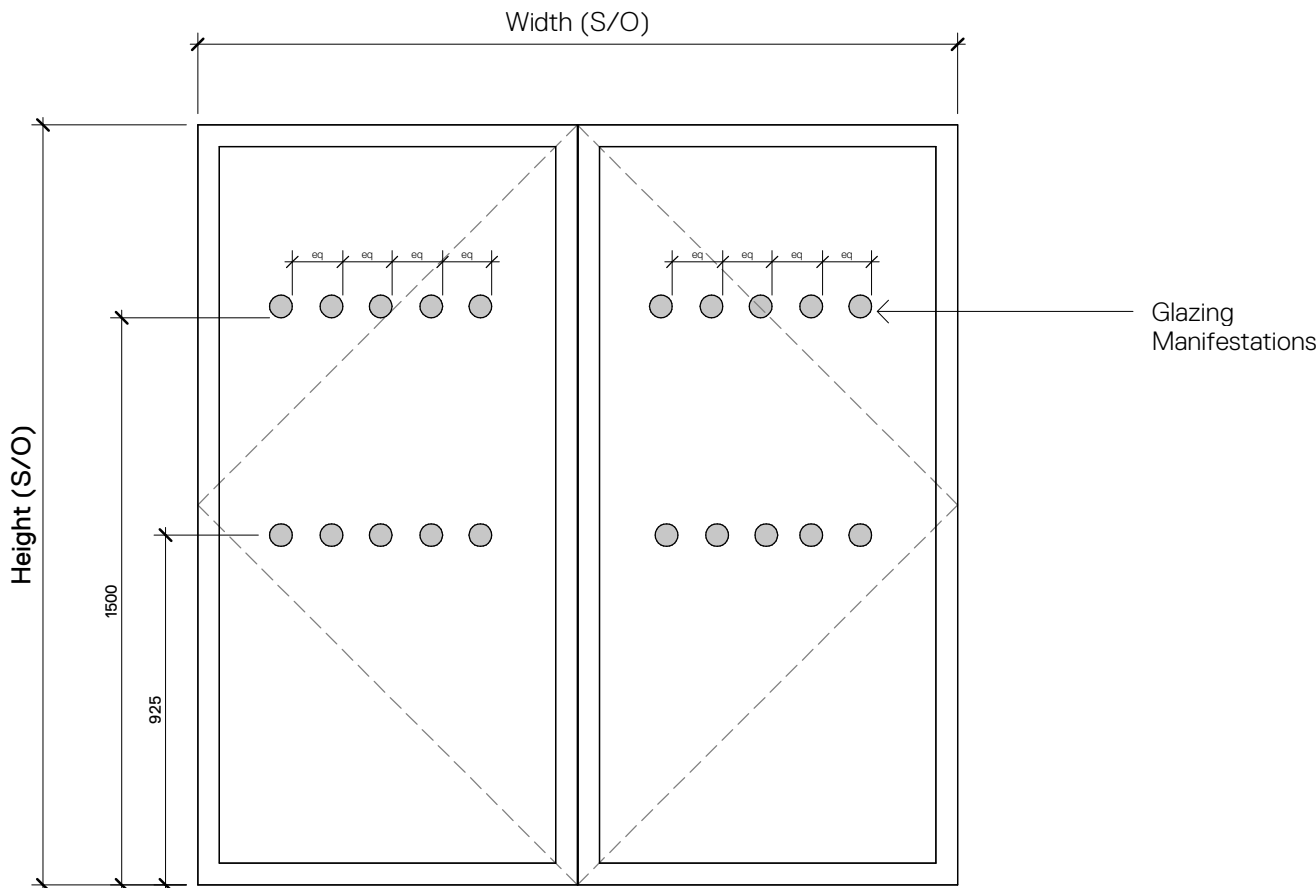
Revision	Description	By	Date
P02	Updates following contractors Stage 4B Queries	JP	07.06.24
P01	Stage 4B Issue	JP	14/05/24



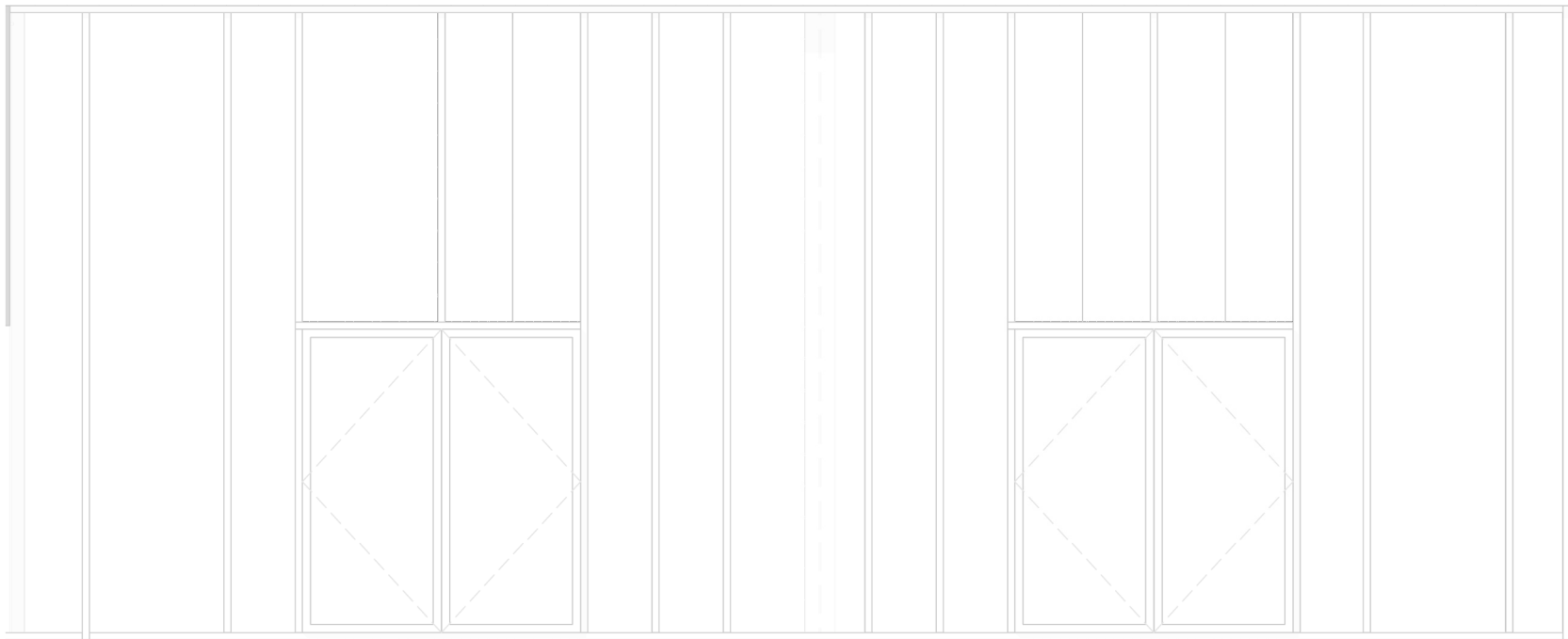
External Window
Powder Coated Aluminium Framed Window
Refer to Details 21-401

Aluminium window system - Ss_25_10_20_85

Curtain Wall System 1 - CW-00-51-05
Powder Coated Aluminium Curtain Wall System



External Door Type A
Mechanically Assisted External Aluminum Glazed Double Door
Ss_25_10_20_85 - SAS PURe Commercial Door System
Frame Finish: PPC Aluminum Colour TBC
Leaf Finish: PPC Aluminium and Clear Glass with Manifestation, Colour TBC



Curtain Wall System 2 - CW-00-51-06
Powder Coated Aluminium Framed Curtain Wall System

General Note – For fire doors - All ironmongery must be to relevant specification and performance standard required by door supplier fire door test certification, and must be fitted strictly in accordance with all requirements of the door supplier fire door test certification.

All ironmongery to be as proposed by ironmongery specialist supplier, to suit applicable door type, weight and operational room and intended use pattern

Finish - Flush panel solid timber laminate doors with solid edgings and lipping. All doors shall meet the requirements of Jensen Hughes fire safety report and the safety regulations generally.

Door undercuts - All non fire rated doors to have min 10mm undercut above floor finishes for air transfer in accordance with Building Regulations APD-F Table 5.2c.

Fire Signage - Refer to Signage Drawings for Specification and locations to be read with Client requirements. Client to confirm final finish requirements.

Room Identity Signage - Internal Wayfinding signage to be confirmed by Client.

Door Closer - Variable power overhead door closer; c/w backcheck; Satin Anodised Aluminium. Grade to be confirmed by supplier to suit door type and door specification. Please refer to door schedule for door closer locations.

Vision Panel Glazing - All fire resistant glazing to be in installed using proprietary intumescent glazing system with hardwood beads - all bead dimensions, fixing, material to be in accordance with glass manufacturer and door supplier recommended details and fire test certification.

All glass below 800mm above finished internal level, and in doors or within 300mm of doors to be safety glass to comply with BS 6206 Class A. Vision Panel to comply with Building Regulations Parts B.M & N.

All Self Closing doors without floor stop to have backstop closer.

All door frames to be minimum material, installation and dimensional specifications in accordance with fire door test certification. All ironmongery fixed strictly in accordance with fire door test certification requirements

Door Closer – To have maximum opening force of the door is more than 30N from 0° to 30° or more than 22.5N from 30° to 60° of the opening cycle

Ironmongery – To be confirmed by Ironmongery specialist. Finishes to be confirmed by client.

Fob Access - Client to confirm final requirements to be read in conjunction with M&E Layouts

Wayfinding and Door signage - Client to confirm requirements.

Security – Client and building occupiers to confirm requirements.

Kick Plates – Kick plates to both sides of all 'heavy use doors' / Kick plate to *push* side of door, to general use doors. No push plates to store doors. Final requirements to be confirmed by client requirements.

NBS Specification - Please refer to NBS specification for door specification requirements and details.

Proposed External Window Schedule						
External Window Number	Phase Created	Height (S/O)	Width (S/O)	Fire Rating	Comments	
WI.00.01.01	New Construction	3160	685	NFR		
WI.00.01.02	New Construction	3160	685	NFR		
WI.00.01.03	New Construction	3160	685	NFR		
WI.00.37.01	New Construction	3310	910	NFR		
WI.00.38.01	New Construction	3328	910	NFR		
WI.00.38.02	New Construction	3328	910	NFR		
WI.00.38.03	New Construction	3345	910	NFR		
WI.00.38.04	New Construction	3310	910	NFR		
WI.00.58.01	New Construction	3140	685	NFR		
WI.00.58.02	New Construction	3140	685	NFR		
WI.00.58.03	New Construction	3140	685	NFR		

General - All windows/ glazed openings to be in compliance with Building Regulations.

Insurance - To be confirmed by Client requirements.

Building Defect Warranty - To be confirmed by Client requirements.

Framing Type - As per agreed supplier proposals and complying with Architect requirements. Double glazed units in thermally broken polyester powder coated aluminium frames to BS 6875.

All easily accessible windows and doors to be secure in accordance with Building Regulations Approved Document Q for certification, testing and installation. Drained and Ventilated as BS6252.

Glazed internally unless otherwise agreed to allow glass replacement internally.

Opening arrangements shown are provisional.

Hinging arrangements to be confirmed by supplier to meet window frame performance limits and additional client requirements and requirements of the building's *Thermal Comfort* Report if required.

Security - Specification in line with AD Part Q where applicable.

Client to confirm any additional requirements necessary to meet insurer needs.

Performance Requirements

All framing including mullions, transoms and couplers to be capable of withstanding the design wind loadings calculated in accordance with BS EN 1991-1-4:2005. To be designed to resist all calculated local wind and building specific applied wind loadings. Windows shall satisfy testing to BS 6375, Part 1, 2015, and shall achieve a pass for mechanical testing to BS6375, Part 2:2009. All windows and doors must be fully weather stripped and air sealed all round, and have appropriately backed acoustic mastic pointing all around, with approved compressed backing rods.

Weather stripping to be capable of being renewed without disturbing the glazing system and without removing the outer frame from the structure. The weather stripping to be continuous around the frame.

AD Part F: Background Ventilation - Shall be provided mechanically. Trickle vents are not required. Refer to M&E Consultant drawings and specifications for more information. MEP Consultant to confirm overall extract and ventilation strategy including the provision of any trickle ventilation.

AD Part F: Purge Ventilation - Shall be provided mechanically in line with MEP consultant information.

Restrictors - All opening windows shall be restricted to 100mm wide opening. Therefore, the base of all openings may be min 800mm *unless* otherwise affected by Part Q requirements or the opening has a low sill beneath providing a 'step up' opportunity.

AD Part Q: Over Heating - Window openings shall be used to remove excess heat in accordance with *M&E Consultants Thermal Comfort Assessment*. MEP consultant to confirm overall strategy to finalise design.

Safety - All internal and external glass in critical locations shall be Safety Glass in accordance with Building Regulations AD Part K, laminated or toughened to comply with BS EN 12600 Class 3 or BS 6006 Class C, below 800mm above finished internal level or external ground level, and in doors or within 300mm of doors.

Doors and side panels with panel width greater than 800mm to comply with BS EN 12600 Class 2 or BS 6206 Class B. All safety glass to be kite-mark stamped.

Clearing - Methods shall be developed by *Fapade Access Specialist* in accordance with Architect's access and maintenance Strategy proposals ready for Client facilities management approval.

Fall Restraint - On all floors above ground all window glass below 800mm (or 800mm in fixed screens) must also be designed to withstand banner loading in accordance with Building Regulations AD Part K, and BS EN 1991-1-1, UK National Annex, PD6688-1.1 and BS 6180.

Window/Door Ironmongery - All hinges to specialist supplier proposal. All finishes to be agreed with client's requirements.

Handle and locking mechanisms to supplier proposal. Key tuning to be agreed. 100mm restrictors to all windows. All hinges and restrictors must be designed to withstand all location and project specific wind loadings.

Thermal Values - Window frame manufacturer shall provide calculation confirming achievement of U-value for all frame patterns. Minimum requirements for non-residential areas to meet/ exceed performance set in Approved Document L2A, Table 3.

Acoustics - No specific requirements required. Refer to Atsler Crescendo report for further information.

Fixing - All windows and doors must be securely fixed in accordance with the manufacturer's specifications.

Materials - as per agreed Supplier Proposal and to Architect Specification. Double glazed units in thermally broken polyester powder coated aluminium frames to BS 6875. Colour - Bronze /RAL 9005 to be confirmed through sampling.

Grilles glazed in PPC coated aluminium with twin wall insulated panel backing. All to specialist proposed detail and to approval. If grilles are required Grille colour - XXXXX to be confirmed through sampling.

Glazing - Double glazed, low-e 66/53 lv of 65%, G Value 0.36 - Target U-Value 1.0W/m²K.

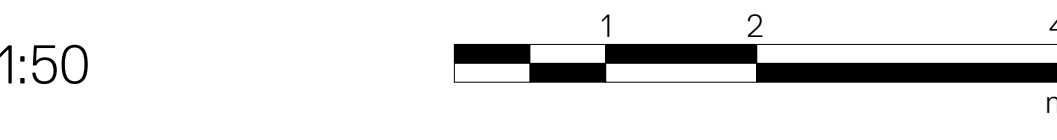
General Notes:

EPDM required. All visible brackets to curtain wall to be painted to match frame. Protective taping of aluminium required - to be removed by others.

Manifestation to CW screens where shown on drawings - by CW manufacturer. Refer to Energy Statement for further information on performance.

Proposed External Door Schedule						
Door Number	Phase Created	Width (S/O)	Height (S/O)	Fire Rating	Emergency Escape Door	Comments
ED.00.38.01	New Construction	1950	2135	NFR	Yes	Push button required. Mechanically assisted to enable maximum accessibility both for anyone visiting the building but also for equipment and deliveries as per Client request.
ED.00.38.02	New Construction	1950	2135	NFR	Yes	Push button required. Mechanically assisted to enable maximum accessibility both for anyone visiting the building but also for equipment and deliveries as per Client request.
ED.00.39.05	Existing					
ED.00.39.07	New Construction	0	0			
ED.00.39.11	New Construction	0	0			
ED.00.39.12	New Construction					
ED.00.39.13	New Construction	0	0			

Proposed Curtain Wall Schedule					
Curtain Wall Number	Phase Created	Height (S/O)	Width (S/O)	Fire Rating	Comments
CW.00.38.01	New Construction	4460	2951	NFR	
CW.00.38.02	New Construction	4460	11034	NFR	



Notes:
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Checked	JP	12/09/23	
Approved	KH	12/09/23	

Project	Heywood Civic Centre LCpl Stephen Shaw MC Way, Heywood Greater Manchester, OL10 1LW	Status	Stage 4
		Issue	Tender
Drg Title	External Door and Window Type Elevations	Scale	As indicated
		A1 Sheet	
Drg No.	564-K2A-B1-ZZ-DR-A-31-310	Revision	P02