



Project	125 Portland Street
Project Ref	1877
Application Ref	130103/FO/2021 (Application 1)
Revision	/

Proposed Specification

All products shall be fabricated from the Alu-prof System range of architectural glazing profiles with ancillary fittings as noted.

Framing

The entrance screen framing shall be fabricated from thermally insulated high performance **MB-SR50 EFEKT** curtain walling system incorporating 50mm face width mullions & transoms internally, externally cap-less with mastic sealed joints and low rise dual ramped threshold rails to the door apertures.

All other screen framing shall be fabricated from the thermally insulated high performance fully capped **MB-SR50n** curtain walling system.

Screens shall incorporate a 50mm deep external transom cap, where required.

Door Leaf construction

Door leafs shall be fabricated from thermally broken **MB-70 (polyamide)** range of commercial sections hinge stiles, leading stiles, head rails, bottom rails, and internal clip-in glazing beads.

Door Operation/Fittings

Door sets shall be hung on butt hinges and fitted with internal face mounted transom closers and either a) sash multi point deadlock with double euro profile lock cylinders, lever handles and 300mm long stainless- steel tubular handles or b) sash multi point locking with vertical rod push bar panic exit devices.

Window Construction

5th floor windows shall be fabricated from the **MB-70 (polyamide)** range of high performance thermally broken casement sections, internally glazed with clip-in glazing beads and epdm gaskets and fitted with maximum 150mm external subcill flashings.



Opening Vent Operation/Fittings

Top hung opening lights shall be fitted with stainless steel friction hinges, silver finish espagnolette handles with multipoint locking, permanent restrictors and through the frame background trickle ventilators giving 2900mm² equivalent Area (4000mm² free area).

Glazing Infill's

Glazing Type 1 – To our ground floor toggle glazed screens, shall be 32mm thick hermetically sealed double-glazing units comprising 8mm solar controlled glass (**Cool-lite SKN176**) heat-soaked toughened outer panes, 16mm argon filled cavity using black warm edge cavity spacer bars with toggle channel bars to the perimeter & silicone sealed and 8mm clear heat-soaked toughened inner panes.

Approximate acoustic ratings

<i>R_w</i>	<i>R_w + C</i>	<i>R_w + C_{tr}</i>
36	34	30

Glazing Type 2 – To our window, doors & standard (capped curtain walling) screens, shall be 30.8mm thick hermetically sealed double-glazing units comprising 8.8mm solar controlled glass (**Cool-lite SKN176**) annealed laminated outer panes, 16mm argon filled cavity using black warm edge cavity spacer bars and 6mm clear heat-soaked toughened inner panes.

Approximate acoustic ratings

<i>R_w</i>	<i>R_w + C</i>	<i>R_w + C_{tr}</i>
38	36	33

Glazing Type 3 – To our ground floor toggle glazed screens (splayed elevation and the Dickinson Street), shall be 32mm thick hermetically sealed double-glazing units comprising 8mm clear outer panes, 16mm argon filled cavity using black warm edge cavity spacer bars with toggle channel bars to the perimeter & silicone sealed and 8mm clear heat-soaked toughened low e (En of 0.01) inner panes.

Approximate acoustic ratings

<i>R_w</i>	<i>R_w + C</i>	<i>R_w + C_{tr}</i>
36	34	30



Glazing Type 4 – To our window, doors & standard (capped curtain walling) screens (splayed elevation and the Dickinson Street Elevation), shall be 30.8mm thick hermetically sealed double-glazing units comprising 8.8mm clear annealed laminated outer panes, 16mm argon filled cavity using black warm edge cavity spacer bars and 6mm clear heat-soaked toughened low e (En of 0.01) inner panes.

Approximate acoustic ratings

<i>R_w</i>	<i>R_w + C</i>	<i>R_w + C_{tr}</i>
38	36	33

Opaque spandrel panels - shall be constructed as 28mm thick hermetically sealed double-glazed units, comprising 6mm solar controlled glass (**Cool-lite SKN176**) heat-soaked toughened outer panes, 16mm air filled cavity using black warm edge cavity spacer bars and 6mm heat-soaked toughened standard colour ceramic fired inner panes with 100mm thick foil coated (*non-combustible*) insulated backings.

Approximate acoustic ratings

<i>R_w</i>	<i>R_w + C</i>	<i>R_w + C_{tr}</i>
35	33	31

Aluminium infill panels where denoted shall be constructed from 2mm standard colour polyester powder coated aluminium sheet internally & shaped externally to suit the design, bonded to an insulated (non-combustible, Class A2) core.

Approximate acoustic ratings

<i>R_w</i>	<i>R_w + C</i>	<i>R_w + C_{tr}</i>
34	31	27

Insulated Louvre ventilation panels shall be constructed from (Ikon or HVC) standard colour polyester powder coated extruded louvre blade sections with anti-vermin/bird mesh applied to the internal face, with additional insulation and a standard colour polyester powder coated aluminium tray panel to the rear of the system.