

TYPES OF CURTAIN WALLING

110A CURTAIN WALLING FOR 4th FLOOR Facing Bayham Street Only to achieve overall thermal performance U Value of $1.1\text{W/m}^2\text{K}$ and targeted acoustic performance requirement (Rw -Overall weighted sound reduction index) : 39 dB

- Supporting structure: Steel frame by Innovare System .
- Curtain walling system:
 - Manufacturer: Senior Architectural Systems Ltd, Eland Road, Denaby Main, Doncaster, DN12 4HA
Tel: 01709 772600; Fax: 01709 772601; email:
info@seniorarchitectural.co.uk; www.seniorarchitectural.co.uk
Local Contact Jon Oliver Tel:07788 364 803 email: jono@sasmail.co.uk .
 - Product reference: SF52 Silicone Glazed 52 mm Curtain wall SF52 Silicone Glazed 52 mm Curtain wall .
 - Type: Stick System with thermal isolator behind aluminium toggle plate .
- Internal framing member:
 - Ref: SF050/080/100/125/150/175/200/225/250 - 50/80/100/125/150/175/200/225/250 mm deep mullion.
 - Ref: SF050/080/100/125/150/175/200/225/250 – 50/80/100/125/150/175/200/225/250 mm deep transom.
 - Note: mullion size dependent on wind load, mullion centres and tie back positions.
 - Transom size subject to span and glass weight and in-conjunction with architectural design.
 - (for general info regarding CW details refer to architects elevations, detail drawings 40-10, 44-01, 48-04,48-14 and schedules 50-03-05. Details for fabrication TBC by architect prior fabrication)

NOTE:- Where structural properties of mullions is in excess of those for the sizes listed, it will be necessary to insert a system specific reinforcement or flat steel bar insert into the box element of the mullions.

- Material: Extruded Aluminium Alloy 6060 or 6063 T6 to BS EN 955 Pt 9 2008 or BS EN12020 -2 .
- Finish: Polyester Powder Coat to BS EN 12206: 2004 Part 1 .
Colour/ texture: RAL Ref :7039 .
Minimum film thickness: 40 microns (60 microns in hazardous/marine environments) .
- External cover cap: N/A , Silicone Glazed system.
 - Material: - .
 - Finish: - .
Colour/ texture: Silicone Glazed, silicone colour TBA with architect, submit samples .
Minimum film thickness: . .
- Glazing: Double glazing with acoustically laminated glass for the elevation facing Bayham Street - refers to acoustic report requirements.
Acoustic performance (Rw -Overall weighted sound reduction index) : 39 dB.
Thermal performance : U Value of $1.1\text{W/m}^2\text{K}$ for the thermal performance a sustainability statement requirement. Thickness to be agreed with the Architects
Fire performance - internally - note prior fixing the glazing at partywall area intumescent strip as per spec P10/435A to be fixed on timber party wall behind spandrell panel. .
NOTE:- where the installation is not to have caps, or if the caps are only to either of the mullions or transoms – then the maximum thickness of insulating glass units will be no more than 40 mm – eg if double glazed this would be 12.0 mm; 16.0 mm cavity; 12.0 mm units.
 - Inner pane: min.6.4mm to be agreed, .
 - Cavity: 16mm TBC
 - Outer pane: min.10mm to be agreed .
- Glazing system: Minimum 6.4mm acoustically laminated (PVB) glass inner pane, low emissivity coating in inner glass pane facing double glazing cavity

- Corners - glass to glass detail as per SF52.A.2118 at SAS brochure .
- Panel/ facing type: To be Argeed .
 - External material: Laminated ceramic coated glass - submit samples 1000x1000 mm .
 - External finish: Not required .
 - Internal material: Aluminium sheet .
 - Internal finish: Powder coating .
 - Core insulation: Foam achieve U Value of 0.2 W/m²K in all locations but corners
- Corners - Foam max thickness allowance 25 mm , U Value of 0.6 W/m²K .

All glazing to comply to BS6262

NOTE: the glazing specialist will need to assess the pane size in-conjunction with the site wind loads, in order to determine the actual thicknesses required.

Solar control glass is required to meet the following requirements:-

SOLAR AND LIGHT CONTROL

- Total solar energy transmission: g-value would be 0.37 to 0.39, heating assessment at the detailed design stage
 - External Reflectance: submit proposal
 - Absorption:
 - Total Transmittance:
 - Shading Coefficient:
 - Visible light transmission:
 - Transmittance:
 - External Reflectance:
 - This performance criteria to be confirmed.
- Accessories: as per manufacturer recommendation .
 - Incorporated components: aluminium pressure plate, fixed to mullions & transoms at a maximum of 50 mm from ends & at a maximum of 250 centres .
 - Other requirements:
 - Flashings: 2.0 mm thick powder coated aluminium pressing to form a projecting cill detail at base of glazed screens.
 - All interface details to incorporate SF460 perimeter seal gasket, in order to ensure that both the thermal performance of the glazing and air tightness is achieved across these interfaces.
 - All in conformance to the CWCT Standard for Systemised Building Envelopes Part 3, sequence B
 - Air permeability 600 pa A4 Classification – CWCT/BS EN 12152
 - Water tightness 600 pa R7 – CWCT/BS EN 12154
 - Wind Resistance 2400 pa (serviceability 3600 pa safety)
 - CWCT/BS EN 13116
 - Impact resistance E2 serviceability, E4 safety CWCT/BS EN 14019
 - And DD ENV 13050 Water tightness – Dynamic (Fan) Test.
- When tested in accordance with EN 13830: 2003 the following results where achieved:-
- Air permeability 600 pa
 - Water tightness 600 pa
 - Wind resistance 2400 pa
 - E2 serviceability and E4 safety .
- CW elements dimensions in architect drawings are for guidance only. Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication. -heating assessment to be provided, prior confirmation of sizes nad positions of openable areas and the overall CW thermal performance requirements .

- 110B CURTAIN WALLING FOR 4th FLOOR exception of the elevation facing Bayham Street to achieve overall thermal performamnce U Value of 1.1W/m²K and targeted acoustic performance requirement (Rw -Overall weighted sound reduction index) : 33 dB
- Supporting structure: Steel frame by Innovare System .
 - Curtain walling system:
 - Manufacturer: Senior Architectural Systems Ltd, Eland Road, Denaby Main, Doncaster, DN12 4HA
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Local Contact Jon Oliver Tel:07788 364 803 email: jono@sasmail.co.uk .
 - Product reference: SF52 Silicone Glazed 52 mm Curtain wallSF52 Silicone Glazed 52 mm Curtain wall .
 - Type: Stick System with thermal isolator behind aluminium toggle plate .
 - Internal framing member:
 - Ref: SF050/080/100/125/150/175/200/225/250 - 50/80/100/125/150/175/200/225/250 mm deep mullion.
 - Ref: SF050/080/100/125/150/175/200/225/250 – 50/80/100/125/150/175/200/225/250 mm deep transom.
 - Note: mullion size dependent on wind load, mullion centres and tie back positions.
 - Transom size subject to span and glass weight and in-conjunction with architectural design.
 - (for general info regarding CW details refer to architects elevations, detail drawings 40-10, 44-01, 48-04,48-14 and schedules 50-03-05. Details for fabriaction TBC by architect prior fabrication)
- NOTE:- Where structural properties of mullions is in excess of those for the sizes listed, it will be necessary to insert a system specific reinforcement or flat steel bar insert into the box element of the mullions.
- Material: Extruded Aluminium Alloy 6060 or 6063 T6 to BS EN 955 Pt 9 2008 or BS EN12020 -2 .
 - Finish: Polyester Powder Coat to BS EN 12206: 2004 Part 1 .
Colour/ texture: RAL Ref :7039 .
Minimum film thickness: 40 microns (60 microns in hazardous/marine environments) .
- External cover cap: N/A , Silicone Glazed system.
 - Material: - .
 - Finish: - .
Colour/ texture: Silicone Glazed, silicone colour TBA with architect, submitt samples .
Minimum film thickness: . .
- Glazing: Double glazing with acouctically laminated glass for the elevation facing Bayham Street - refers to acoustic report requirements.
Acoustic performance (Rw -Overall weighted sound reduction index) : 33 dB.
Thermal performance : U Value of 1.1W/m²K for the thermal performance a sStainability statement requirement. Thickness to be agreed with the Architects
Fire performance - external - 30 min fire rated glass to CW on West elevation - for location refer to drawing 30-04
 - interanlly - note prior fixing the glazing at partywall area intumescent strip as per spec P10/435A to be fixed on timber party wall behind spandrell panel. .
- NOTE:- where the installation is not to have caps, or if the caps are only to either of the mullions or transoms – then the maximum thickness of insulating glass units will be no more than 40 mm – eg if double glazed this would be 12.0 mm; 16.0 mm cavity; 12.0 mm units.
- Inner pane: min.6.4mm to be agreed, .
 - Cavity: 16mm TBC
 - Outer pane: min.10mm to be agreed .
 - Glazing system: Minimum 6.4mm acouctically laminated (PVB) glass inner pane, low emisivity couting in inner glass pane facing double glazing cavity

- Corners - glass to glass detail as per SF52.A.2118 at SAS brochure .
- Panel/ facing type: To be Argeed .
 - External material: Laminated ceramic coated glass - submit samples 1000x1000 mm .
 - External finish: Not required .
 - Internal material: Aluminium sheet .
 - Internal finish: Powder coating .
 - Core insulation: Foam achieve U Value of 0.2 W/m²K in all locations but corners
- Corners - Foam max thickness allowance 25 mm , U Value of 0.6 W/m²K .

All glazing to comply to BS6262

NOTE: the glazing specialist will need to assess the pane size in-conjunction with the site wind loads, in order to determine the actual thicknesses required.

Solar control glass is required to meet the following requirements:-

SOLAR AND LIGHT CONTROL

- Total solar energy transmission: g-value would be 0.37 to 0.39, heating assessment at the detailed design stage
 - External Reflectance: submit proposal
 - Absorption:
 - Total Transmittance:
 - Shading Coefficient:
 - Visible light transmission:
 - Transmittance:
 - External Reflectance:
 - This performance criteria to be confirmed.
- Accessories: as per manufacturer recommendation .
 - Incorporated components: aluminium pressure plate, fixed to mullions & transoms at a maximum of 50 mm from ends & at a maximum of 250 centres .
 - Other requirements:
 - Flashings: 2.0 mm thick powder coated aluminium pressing to form a projecting cill detail at base of glazed screens.
 - All interface details to incorporate SF460 perimeter seal gasket, in order to ensure that both the thermal performance of the glazing and air tightness is achieved across these interfaces.
 - All in conformance to the CWCT Standard for Systemised Building Envelopes Part 3, sequence B
 - Air permeability 600 pa A4 Classification – CWCT/BS EN 12152
 - Water tightness 600 pa R7 – CWCT/BS EN 12154
 - Wind Resistance 2400 pa (serviceability 3600 pa safety)
 - CWCT/BS EN 13116
 - Impact resistance E2 serviceability, E4 safety CWCT/BS EN 14019
 - And DD ENV 13050 Water tightness – Dynamic (Fan) Test.
- When tested in accordance with EN 13830: 2003 the following results where achieved:-
- Air permeability 600 pa
 - Water tightness 600 pa
 - Wind resistance 2400 pa
 - E2 serviceability and E4 safety .
- CW elements dimensions in architect drawings are for guidance only. Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication. -heating assessment to be provided, prior confirmation of sizes nad positions of openable areas and the overall CW thermal performance requirements .

- 135A DOORS INSERTS TO CW outwards openable doors to 4th floor terrace - refer to drawing 15-04,50-05,48-14
- Manufacturer: Senior Architectural Systems Ltd, Eland Road, Denaby Main, Doncaster, DN12 4HA
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info@seniorarchitectural.co.uk; www.seniorarchitectural.co.uk
Local Contact Jon Oliver Tel:07788 364 803 email:
jono@sasmail.co.ukD .
 - Product reference: SPW 600 doors (inserted in Curtain wallSF52 Silicone Glazed 52 mm Curtain wall) .
 - Material: Material: Extruded Aluminium Alloy 6063 T6 to BS EN 755 Pt 9 2001. .
 - Finish: Powder Coating by Senior Architectural Systems to BS EN 12206-1 2004 Part 1 .
 - Colour/ texture: from standard Ral colour range: - Colour to be confirmed .
 - Minimum film thickness: 40 microns (60 microns in hazardous/marine environment .
 - Fixing: to manufacturer's specification. details to be approved by the Architect .
 - Other requirements:
Glazing: Double glazing to achieve a U Value of 1.1 W/m²K as for the thermal performance - refer to sustainability statement requirements, Acoustic performance (Rw - Overall weighted sound reduction index) : 33 dB.- refer to acoustic report. Thickness to be agreed with the Architects .
- 135B WINDOW INSERTS TO CW inward opeanble tilt and turn windows - refer to drawing 50-05,48-14
- Manufacturer: Senior Architectural Systems Ltd, Eland Road, Denaby Main, Doncaster, DN12 4HA
Tel: 01709 772600; Fax: 01709 772601; email:
info@seniorarchitectural.co.uk; www.seniorarchitectural.co.uk
Local Contact Jon Oliver Tel:07788 364 803 email:
jono@sasmail.co.ukD .
 - Product reference: SPW 300 tilt and turn window (inserted in Curtain wallSF52 Silicone Glazed 52 mm Curtain wall) .
 - Material: Material: Extruded Aluminium Alloy 6063 T6 to BS EN 755 Pt 9 2001. .
 - Finish: Powder Coating by Senior Architectural Systems to BS EN 12206-1 2004 Part 1 .
 - Colour/ texture: from standard Ral colour range: - Colour to be confirmed .
 - Minimum film thickness: 40 microns (60 microns in hazardous/marine environment .
 - Fixing: to manufacturer's specification. details to be approved by the Architect .
 - Other requirements:
Glazing: Double glazing to achieve a U Value of 1.1 W/m²K as for the thermal performance - refer to sustainability statement requirements, Acoustic performance (Rw - Overall weighted sound reduction index) : 33 dB.- refer to acoustic report. Thickness to be agreed with the Architects .
- 140 LOUVRES to MVHR extract on West Elevation
- Manufacturer: Submit proposals .
 - Product reference: Submit proposals .
 - Material: Aluminium .
 - Finish: Powder coating .
 - Colour/ texture: Black .
 - Minimum film thickness: 25 micrometres .
 - Fixing: Submit proposals .
 - Other requirements: Performance criteria as M&E detail design requirements .