

ENHANCED THERMAL INSULATION PERFORMANCE
Meets Part L2010



Dualframe 75mm Si Casement Window

Materials

Aluminium profiles are extruded from aluminium alloy 6063 or 6060 T6 complying with the recommendations of BS EN 755-9:2001. Polyester powder coat finishes are available to BS EN 12206-1:2004 in a wide range of colours. Anodised finishes are to BS 3987 Grade AA25 etch silver as standard, with a range of special anodised finishes on application.

Weatherstripping is a TPE seal internally and externally, both set in undercut grooves in the sash and frame.

Construction

Frame members are square or mitre cut at 45°. Corners are reinforced with stainless steel corner ties and die cast zinc corner cleats where required. All joints shall be sealed during fabrication against water entry.

The thermal barrier section is achieved using two separate aluminium extrusions and two bespoke polamide extrusions mechanically jointed to form a single compound profile.

Integral reverse rebate units can be manufactured using the unique reverse rebate frames and adaptors, to form a glaze out fixed light, next to a Tilt before Turn window.

Authority

BS7950: Specification for enhanced security performance of casement and tilt/turn windows for domestic applications.

BS4873: Aluminium Alloy Windows.

BS6375-1: Performance of windows: Classification for weather tightness and guidance on selection and specification.

BS6375-2: Performance of windows. Specification for operation and strength characteristics.

BS6262: Code of practice for glazing for buildings.

BS EN 755-9: Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Profiles, tolerances on dimensions and form.

BS3987: Specification for anodic oxide coatings on wrought aluminium for external architectural applications.

BS EN 12206:1 2004: Specification for powder organic coatings for application and stoving to aluminium alloy extrusions, sheet and perforated sections for external architectural purposes.

BS EN 10077-2: Thermal performance of windows, doors and shutters – calculation of thermal transmittance – Part 2: Numerical method for frames.

Site Work

A fabrication, installation and glazing service is available through a network of fabricators and installers. For details of suitable fabricators and installers, please contact our Marketing Team on 01684 853500.

Hardware & Security

Opening lights are hung on concealed, stainless steel variable geometry friction hinges. Espagnolette locks are zinc plated steel, with zinc plated die cast keeps. Handles can be colour matched and are zinc die castings. Optional Vector Excluder hinge protectors must be fitted when enhanced security to BS7950 is required.

Glazing

Drainage in accordance with details listed in this manual meets the requirements of “Ventilated and Drained Glazing System”, as specified in BS6262. Glass must conform to BS6262 for thickness and type. Insulating glass units of 24mm, 28mm and 32mm can be accommodated.

Glass is set against co-extruded PVCu / Nitrile gaskets retained in undercut grooves within the aluminium profile. Final retention of the glass is achieved by the application of a co-extruded PVCu / Nitrile wedge gasket between the inner face of the glass and bead or frame.

Performance

When tested in accordance with BS6375:Part 1:2009 all products listed in this data sheet, when manufactured, installed and glazed strictly in accordance with Sapa Building Systems' specifications, will achieve the following exposure category '2400 Special'. (see below)

Opening Lights

Water Tightness	Class 9A (600 pascals)
Permeability	Class 4 (600 pascals)
Wind Resistance	Class E (2400 pascals)

Fixed Lights

Water Tightness	Class 9A (600 pascals)
Air Permeability	Class 3 (600 pascals)
Wind Resistance	Class E (2400 pascals)

* Exposure category varies with Width/Height of window and mullion / transom used, as these are the only unsupported members. An accurate figure can be obtained using BS6399 Part 2 calculations and inertia values given on page 15.

Maximum fixed light area = 5m².

Thermal Performance

Dualframe 75mm Si can meet and surpass the area weighted average U values stipulated in Part L of the Building Regulations. Lower U-values can be achieved using double glazed units with enhanced thermal insulation, such as 'soft coat' low emissivity glass, argon gas filling and thermally broken spacer bar.

Size Limitations

Note All sizes given are in millimetres, all vent maximum and minimum sizes relate to the overall size of the vent frame and not the outerframe.

Vent frame = "B" size + 12mm (see page 4-1 for an explanation of "B" size)

Fixed Light

Maximum area 5 sq.m

Standard Casement Side Hung

Stay Size	8"	12"	16"
Max Width	440	640	740
Max Height	1200	1300	1300
Max Weight	18kg	22kg	24kg
Min Width	250	351	453
Min Height	424	424	424

Top Hung

Size	6"	8"	10"	12"	16"	20"	24"
Max Width	1200	1200	1200	1200	1200	1200	1200
Max Height	340	390	440	590	820	1140	1340
Max Weight	10kg	12kg	16kg	20kg	21kg	26kg	40kg
Min Width	424	424	424	424	424	424	424
Min Height	199	249	315	390	540	740	890

Heavy Duty Casement Side Hung

Stay Size	10"	16"
Max Width	706	884
Max Height	1524	1829
Max Weight	38kg	47kg
Min Width	303	496
Min Height	424	424

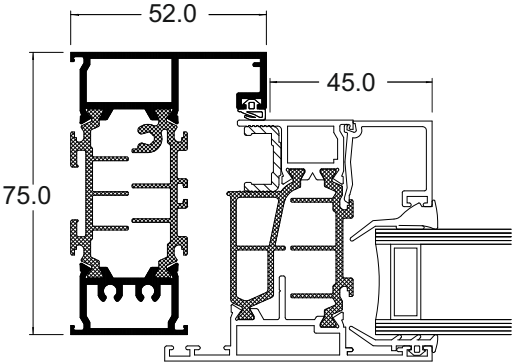
Top Hung

Super Heavy Duty

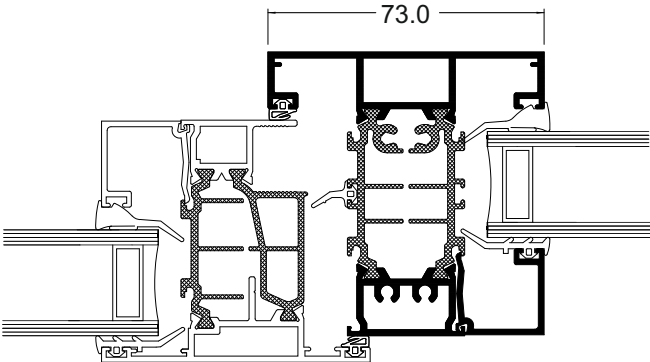
Stay Size	10"	12"	16"	22"	22"
Max Width	1600	1600	1600	1600	1539
Max Height	681	883	1136	1500	1750
Max Weight	37kg	45kg	55kg	75kg	100kg
Min Width	424	424	424	424	541
Min Height	313	681	883	1136	1095

Dualframe SI 75mm Casement Window General Arrangements

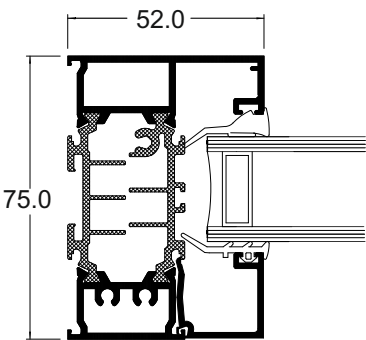
Jamb/Vent



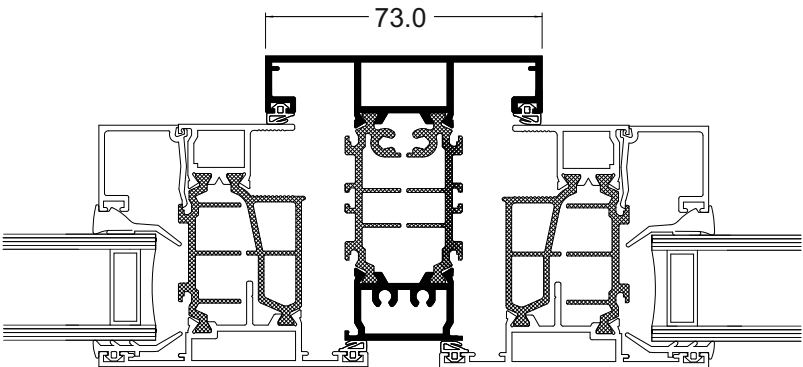
Mullion/Vent



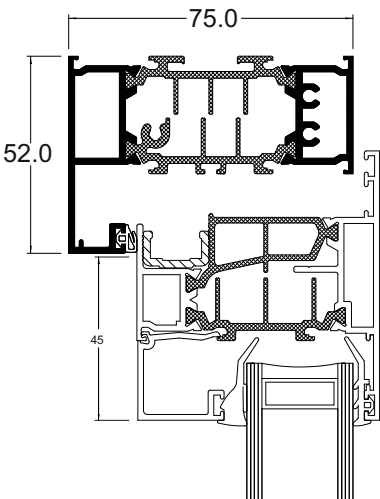
Fixed Light Jamb



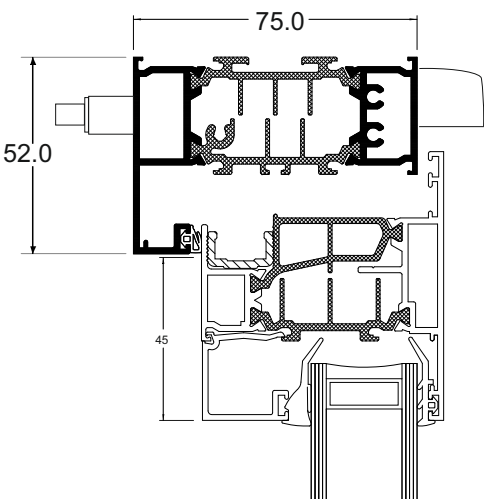
Mullion Vent / Vent



Head/Vent

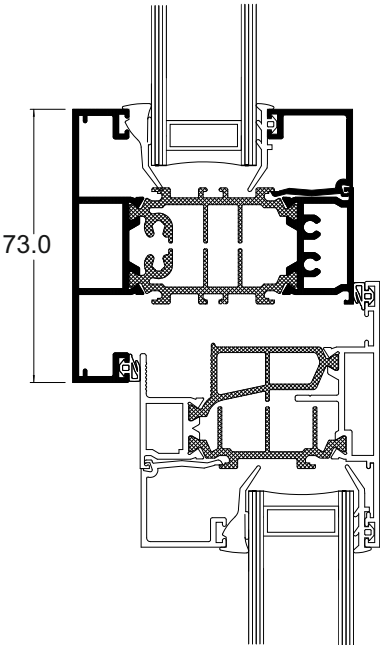


Outerframe / Trickle Vent

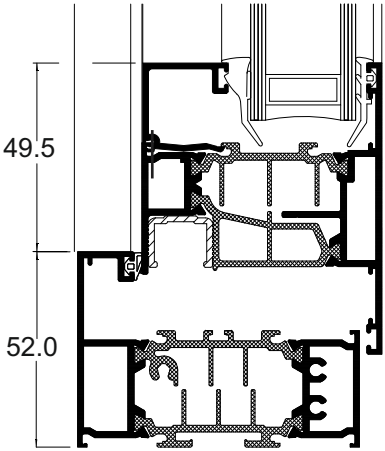


Dualframe SI 75mm Casement Window General Arrangements

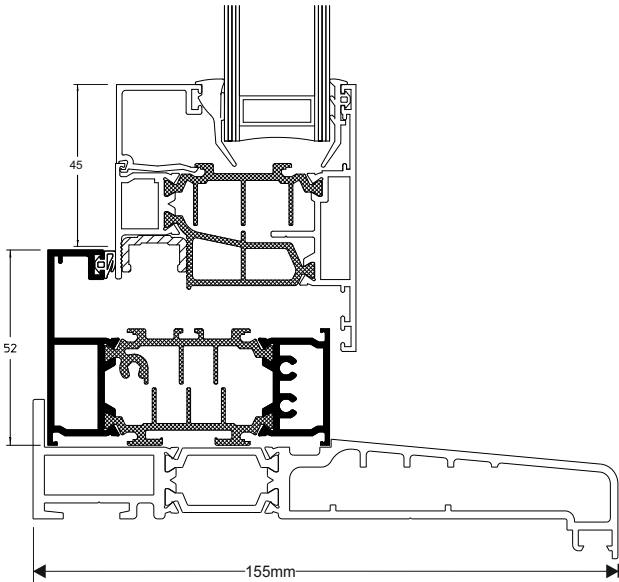
Transom/Vent



Alternative Heavy Duty Vent



Vent



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