

uPVC WINDOWS



MUNSTER JOINERY UK LTD. - TECHNICAL INFORMATION SHEETS		
Title: <i>uPVC Windows</i>		
Section No: 5.01	Rev: E	Date issued: 01/02/2016

AVAILABLE COLOURS:

- White 9010
- Ivory 1015
- Grey 7015
- Black 9005
- Navy 5011
- Red 3003
- Green 6005
- Silver 7001
- Light golden oak
- Dark wood grain
- Oregon pine
- Non Embossed Grey 7015 only

Available in Dual Colour Scotia Profile only Check with Technical.

- White Matt inside any Standard Colour Outside.

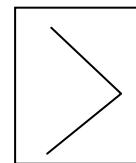
CASEMENT WINDOWS

Double Glazed

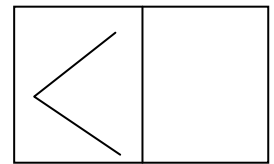
Maximum split for side hung sash 900 mm (w) x 1500 mm (h) incl. cill

Maximum split for top hung sash 1200 mm (w) x 800 mm (h) incl. cill

Maximum height of any sash 1500 mm (h) incl. cill x 900 mm (w)



Max 900mm



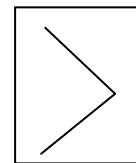
Max 900mm

Triple Glazed

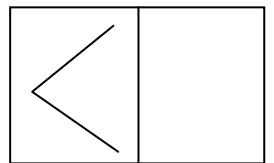
Maximum split for side hung sash 700 mm (w) x 1500 mm (h) incl. cill

Maximum split for top hung sash 1200 mm (w) x 800 mm (h) incl.

Maximum height of any sash 1500 mm (h) incl. cill x 700 mm (w)



Max 700mm



Max 700mm

**Any opening sash that falls within 800 mm off
Finished Floor may require a guard rail to prevent falling
From heights.**

NOTE

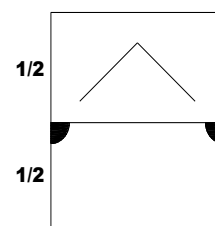
Low level handles on side hung sashes are 250mm from bottom of cill to handle.

	W	H
Minimum size of manufacturable non opening window	250 mm	280 mm incl. cill
Minimum size of manufacturable opening window	400 mm	430mm incl. Cill
Minimum split for side hung / top hung sash in width	380mm	
Minimum split for side hung / top hung sash in height		410mm inc cill

NOTE: When using Large Frame, splits / sizes must be 20mm bigger all round

Standard split for top hung sash 425mm high
Standard split for side hung sash 610mm
Minimum split for dummy sash in width = 380mm.
Minimum split for dummy sash in height = 410mm inc cill.

When using joggles (only top opening), the standard split is $\frac{1}{2}$ - $\frac{1}{2}$.



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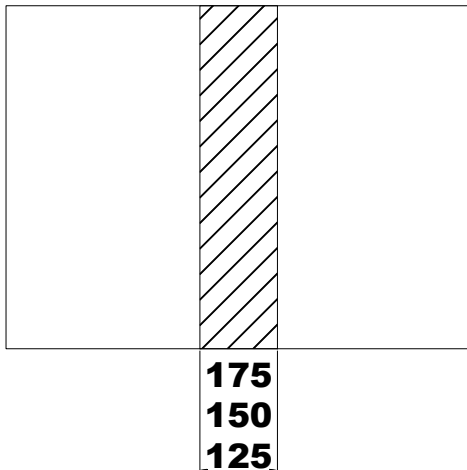
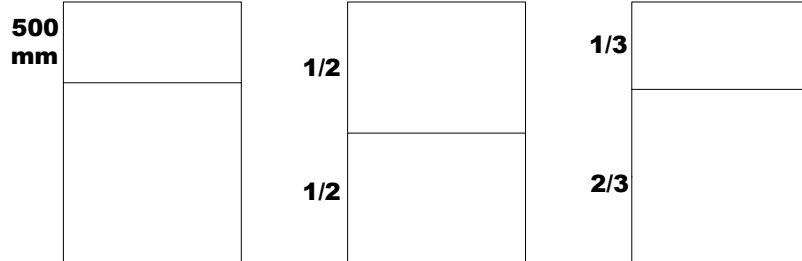
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(Note; Split is measured from outside edge of frame to centre of transom or mullion)
Any off standard split must be indicated on the sketch of the individual item on the contract.

All height splits must be specified from the top of the window.

In the case of Fire Escape Windows, F.E.W. Splits must not be mixed with other special splits, e.g.



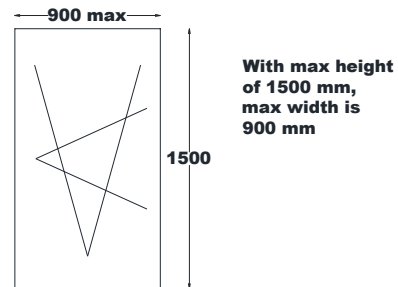
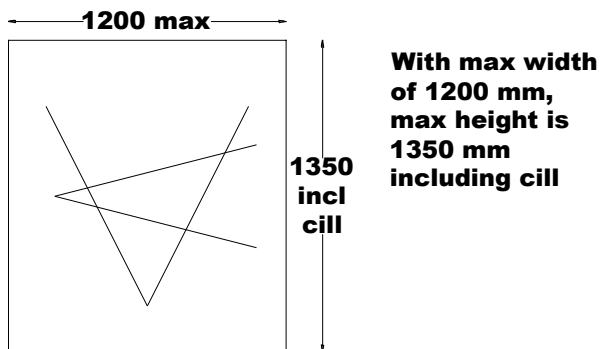
When using a panel in a window to cover:

- internal block work, a split of 175 mm is required
- 100 mm partition, a split of 125 mm is required
- 125 mm partition, a split of 150 mm is required

TILT AND TURN WINDOWS

Minimum manufacturable size for a Tilt & Turn Window
Maximum manufacturable width for a Tilt and Turn sash

500 mm (w) x 680 mm (h) incl. cill
1200 mm x 1350 mm incl. cill



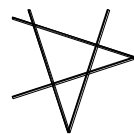
Avoid crucifix joints in Tilt & Turn Windows

Any tilt & turn sash that falls within 800 mm off finished floor would require a guard rail or Juliette balcony on the outside of the window to prevent falling from heights.

Any Large Tilt & Turn may be made Tilt Only.

IF possible avoid low level handles in Tilt & Turn windows difficult to operate.

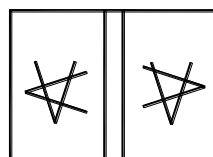
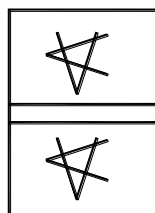
Using the following symbols for handing of T&T windows:



Hinged on Right from Outside



Hinged on Left from Outside

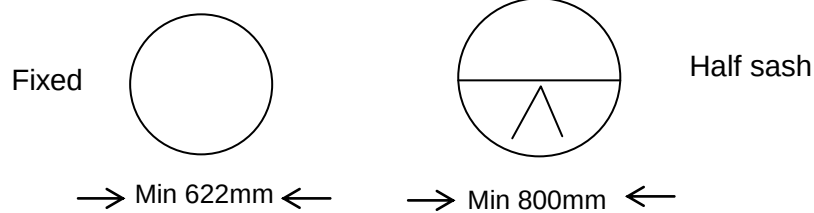


Where adjacent sashes are required they must be separated by lock rail as shown above to ensure correct operation of the Tilt & Turn mechanism.

OFF STANDARD uPVC WINDOWS

Minimum manufacturable bulls eye window with no opening
 Maximum manufacturable bulls eye window with no opening
 Minimum manufacturable bulls eye with a half sash
 Maximum manufacturable bulls eye with a half sash

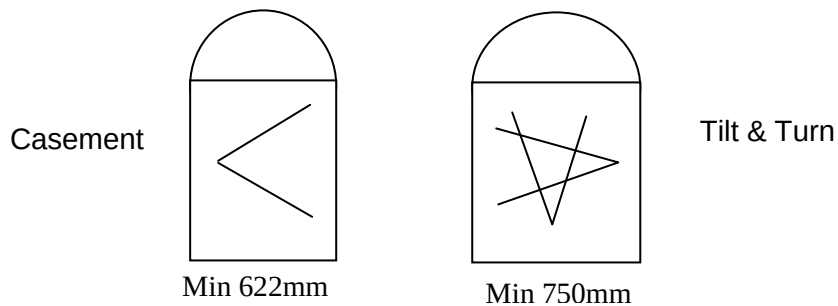
622mm diameter
 1500mm diameter
 800mm diameter
 1000mm diameter



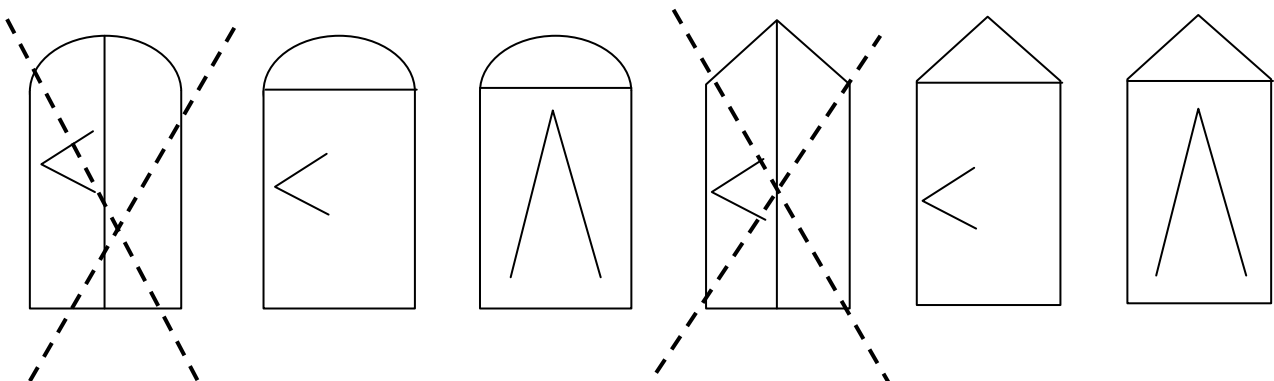
ARCHED AND ANGLED WINDOWS

Minimum manufacturable arch window
 Minimum manufacturable Tilt & Turn arch window

622mm
 750mm



Arch and angle sashes are difficult to manufacture and should be avoided if at all possible. The Technical Office must approve all windows with arch or angle ""



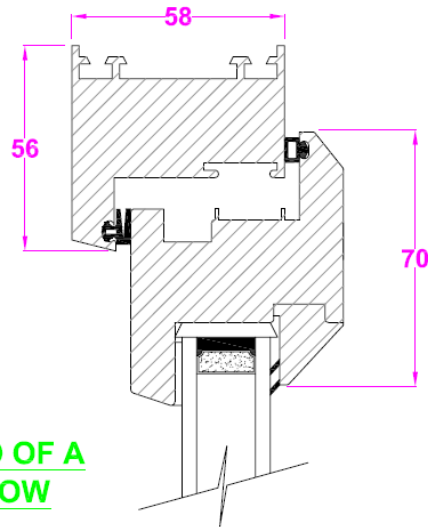
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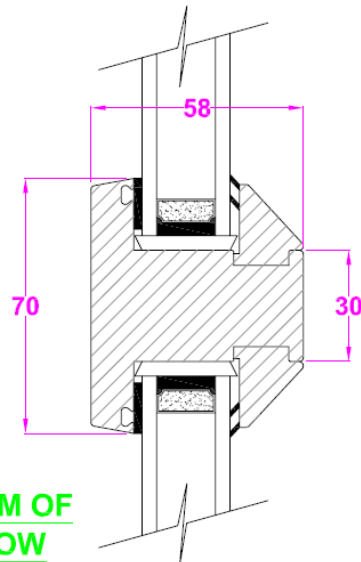
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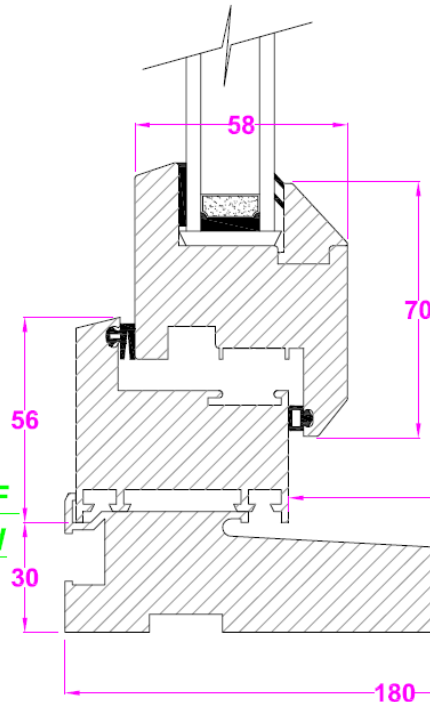
**SECTION THROUGH HEAD OF A
uPVC CASEMENT WINDOW
(BEVELLED)**

INSIDE



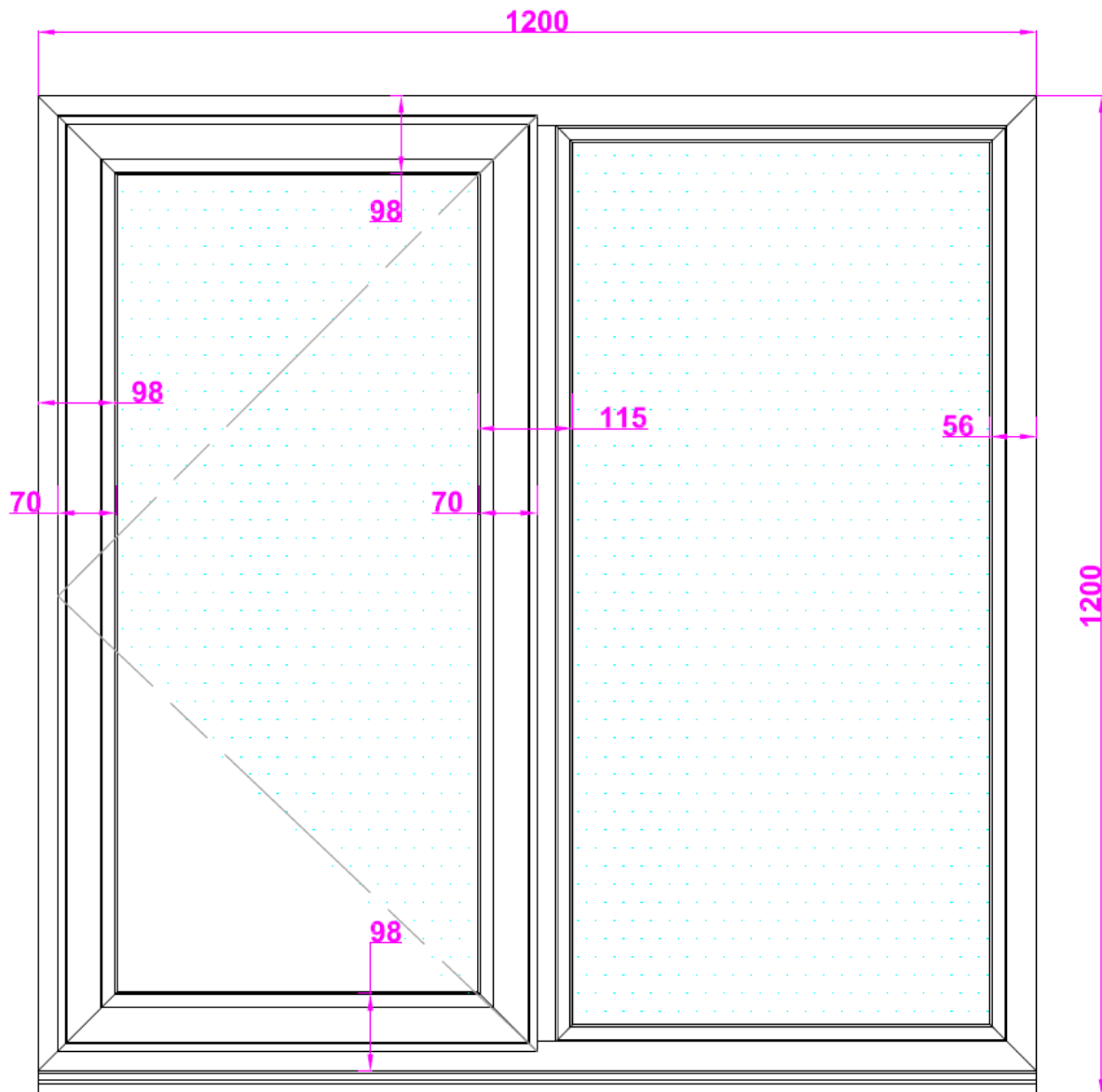
OUTSIDE

**SECTION THROUGH A TRANSOM OF
OF A uPVC CASEMENT WINDOW
(BEVELLED)**



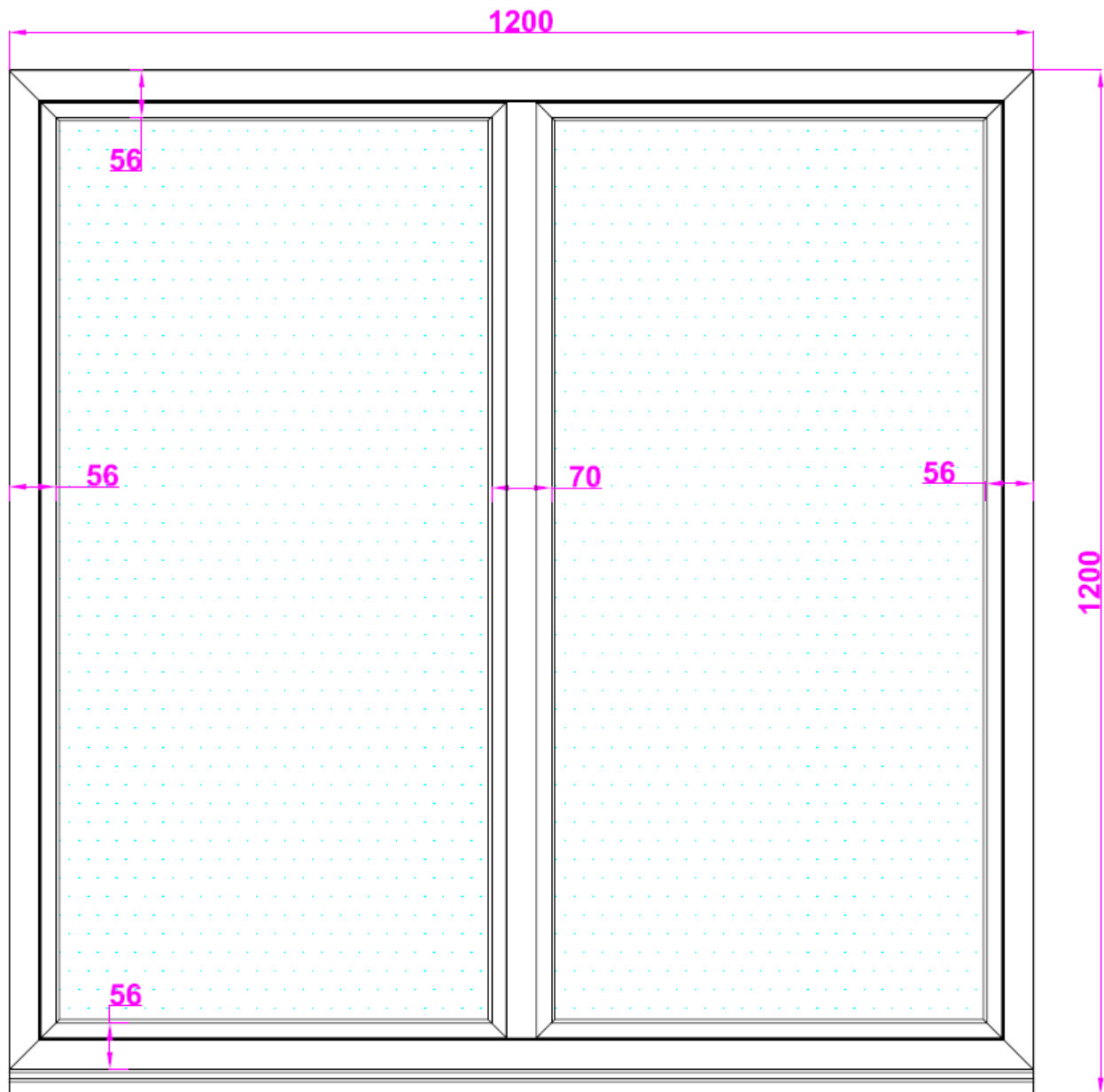
**SECTION THROUGH BOTTOM OF
A uPVC CASEMENT WINDOW
(BEVELLED)**

Bevelled Casement Elevation – Single Sash



ELEVATION FROM OUTSIDE OF
uPVC CASEMENT WINDOW
(BEVELLED)

Bevelled Casement Elevation – Fixed Window



ELEVATION FROM OUTSIDE OF
uPVC FIXED WINDOW
(BEVELLED)

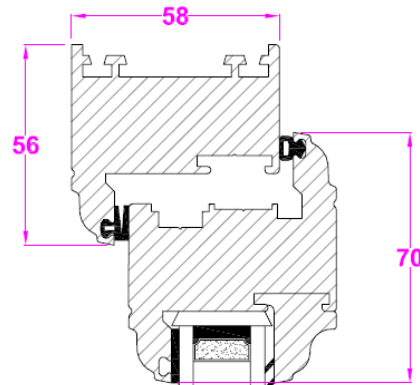
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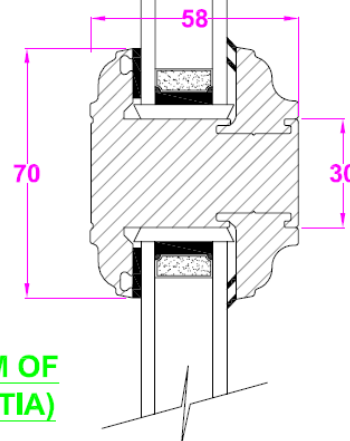
Date issued: 01/02/2016



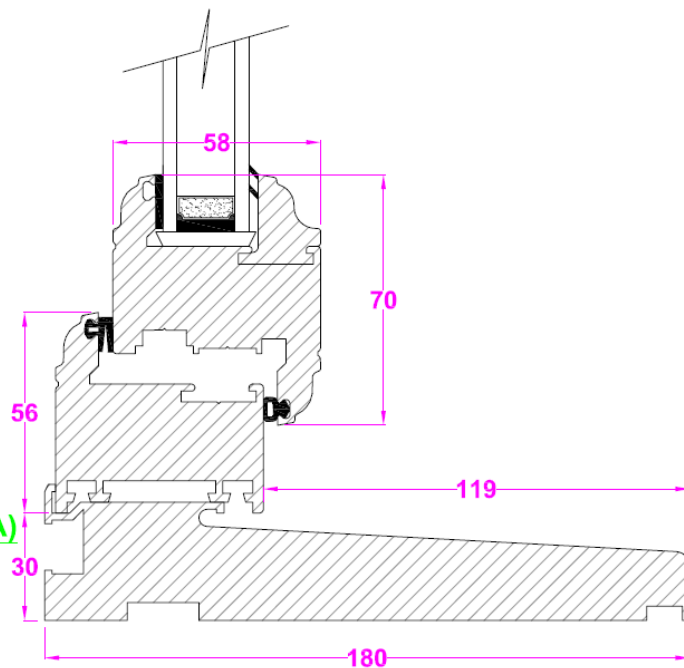
**SECTION THROUGH HEAD OF A
uPVC CASEMENT WINDOW (SCOTIA)**

INSIDE

OUTSIDE



**SECTION THROUGH A TRANSOM OF
uPVC CASEMENT WINDOW (SCOTIA)**



**SECTION THROUGH BOTTOM OF A
uPVC CASEMENT WINDOW (SCOTIA)**

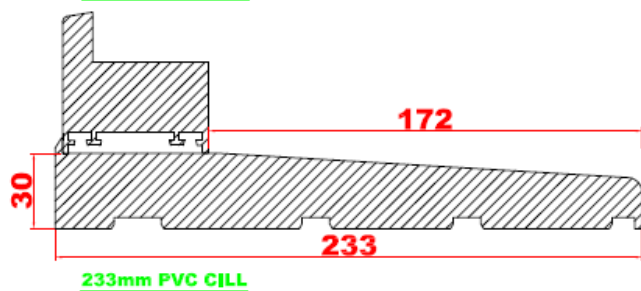
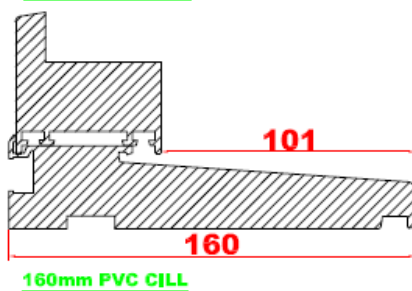
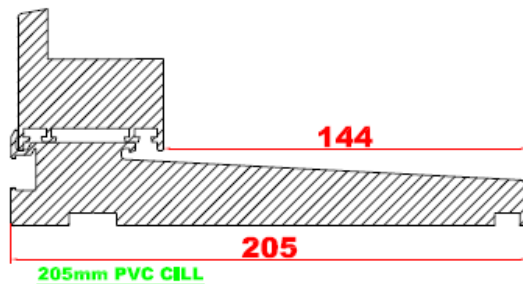
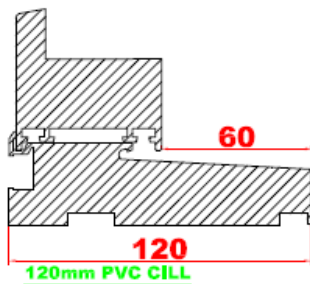
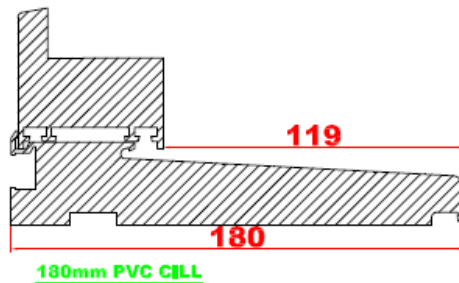
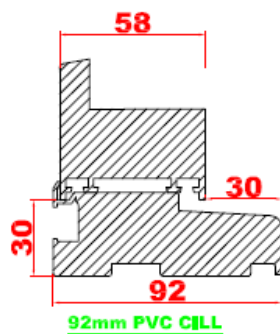
CILLS

uPVC cills are available in 92mm, 120mm, 160mm, 180mm, 205mm and 233mm

Available in various colours, all with window board receivers (except 233mm)

Height of uPVC cill 30mm

uPVC Cill Details



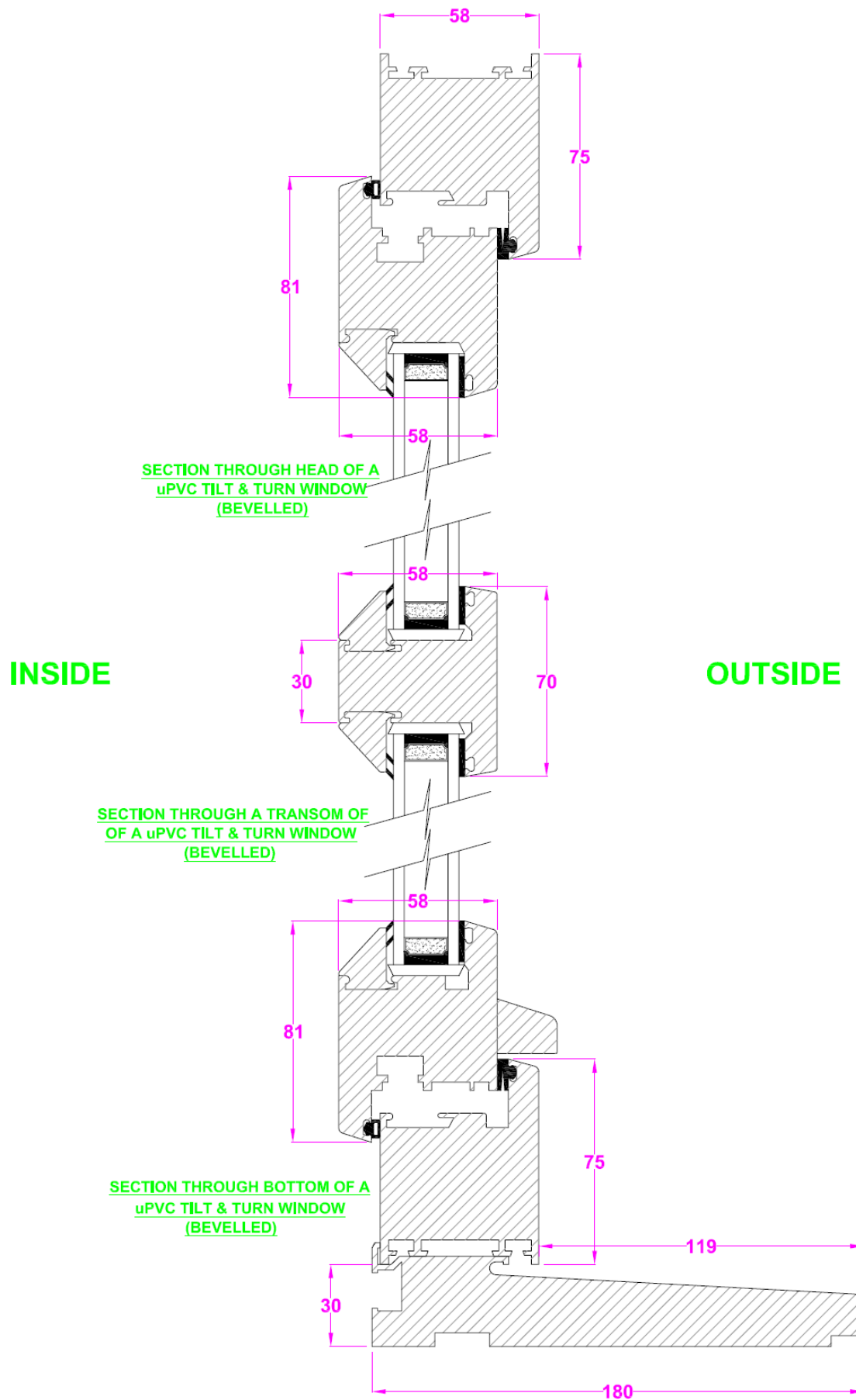
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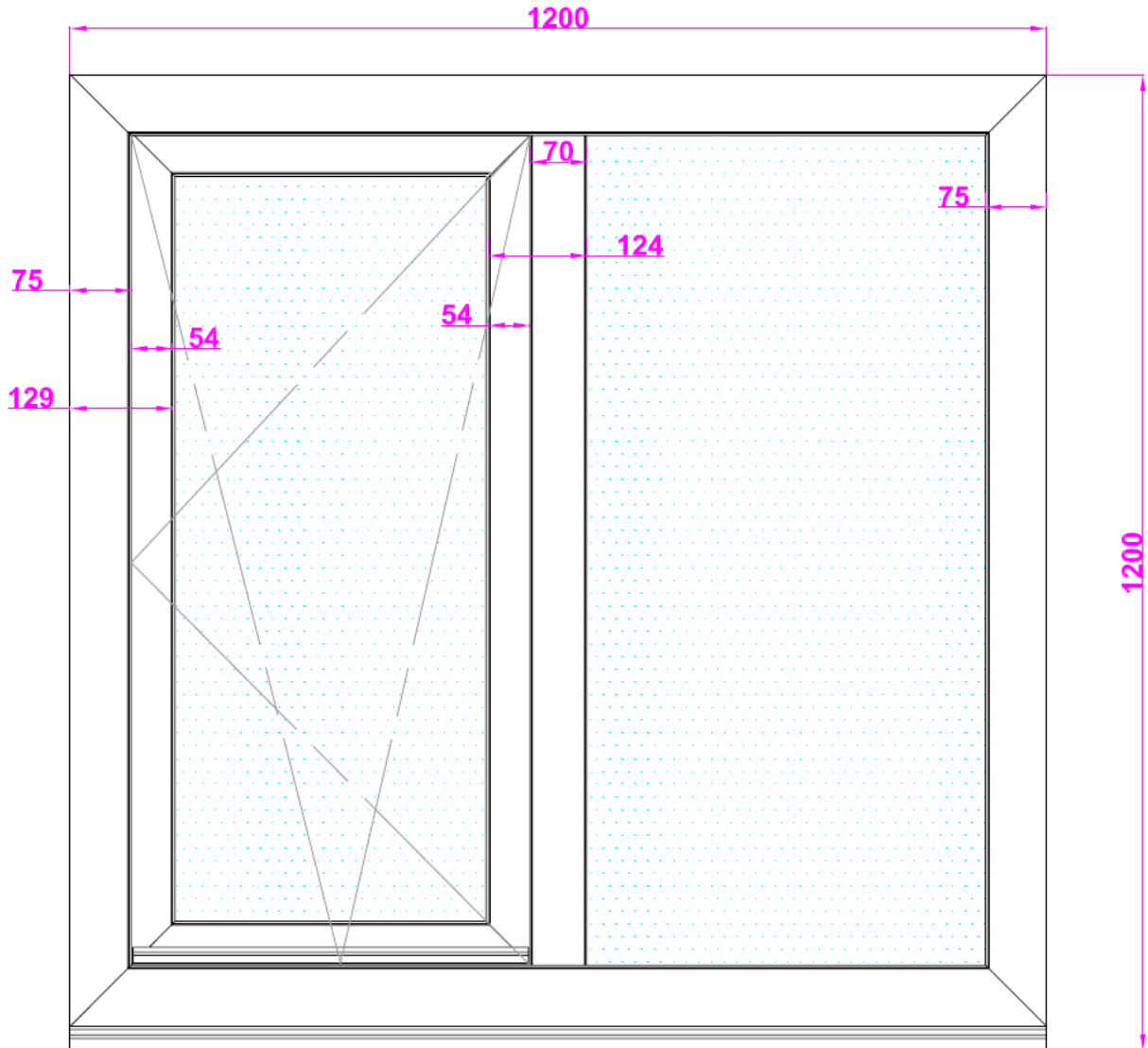
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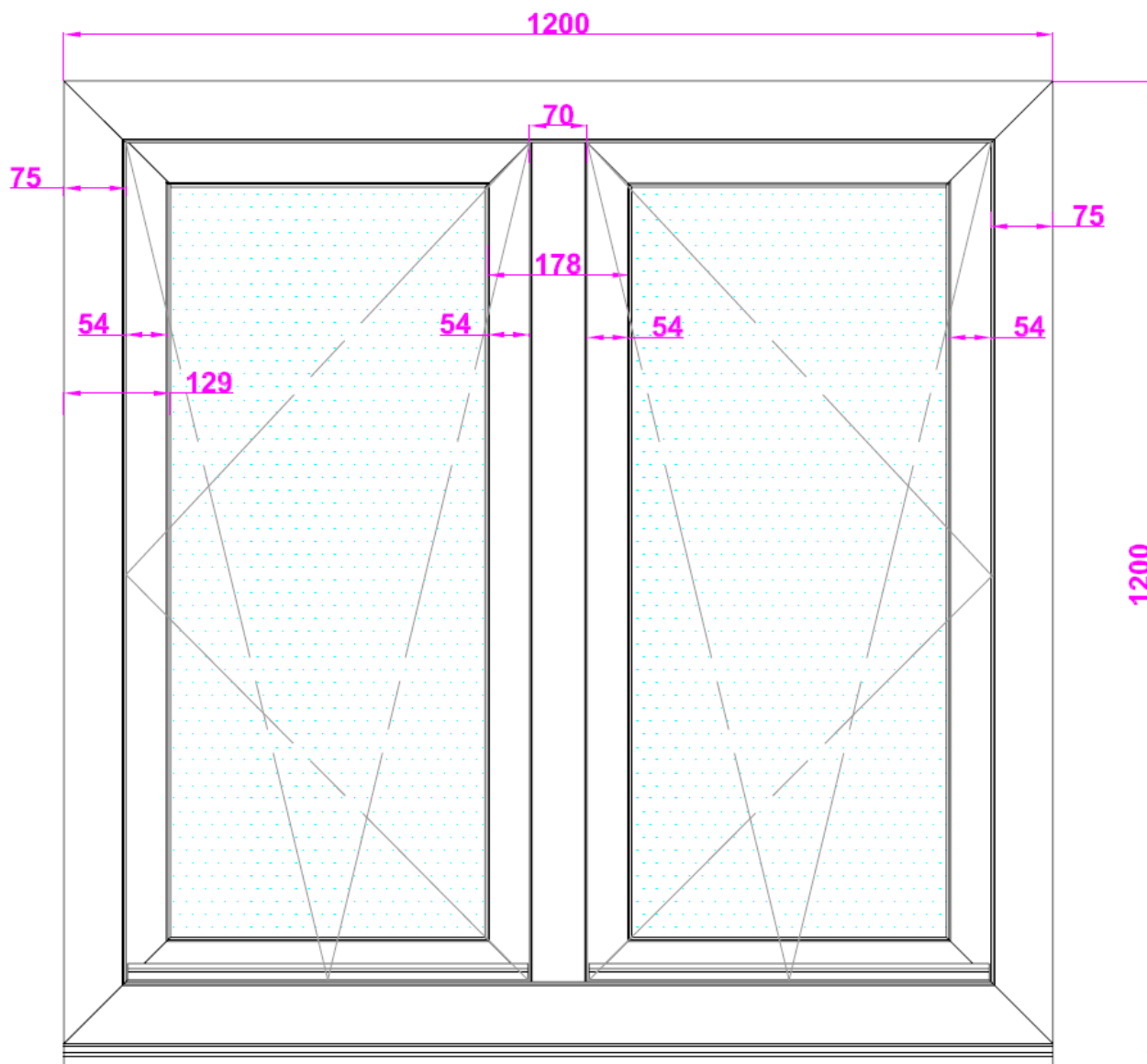
Bevelled Tilt & Turn – Single Sash



ELEVATION FROM OUTSIDE OF
uPVC TILT & TURN WINDOW
(BEVELLED)

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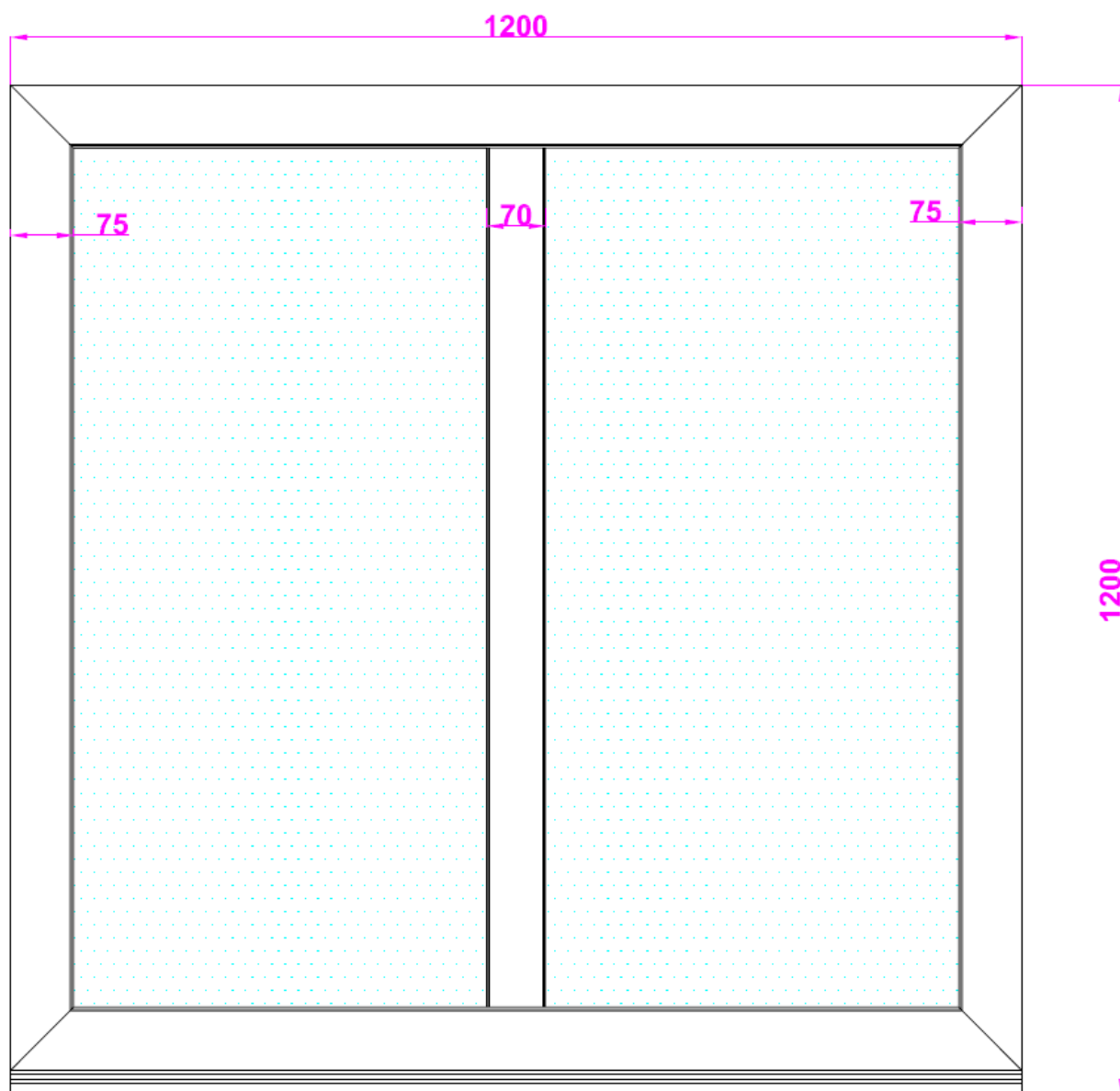
Bevelled Tilt & Turn – Double Sash



ELEVATION FROM OUTSIDE OF
uPVC TILT & TURN WINDOW
(BEVELLED)

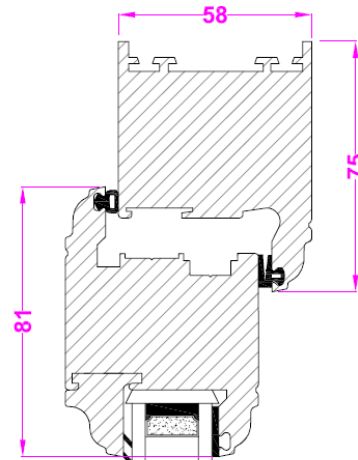
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Bevelled Tilt & Turn – Fixed Window



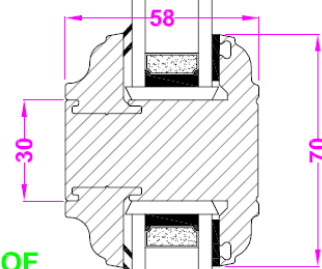
ELEVATION FROM OUTSIDE OF
uPVC TILT & TURN FIXED WINDOW
(BEVELLED)

Scotia Tilt & Turn



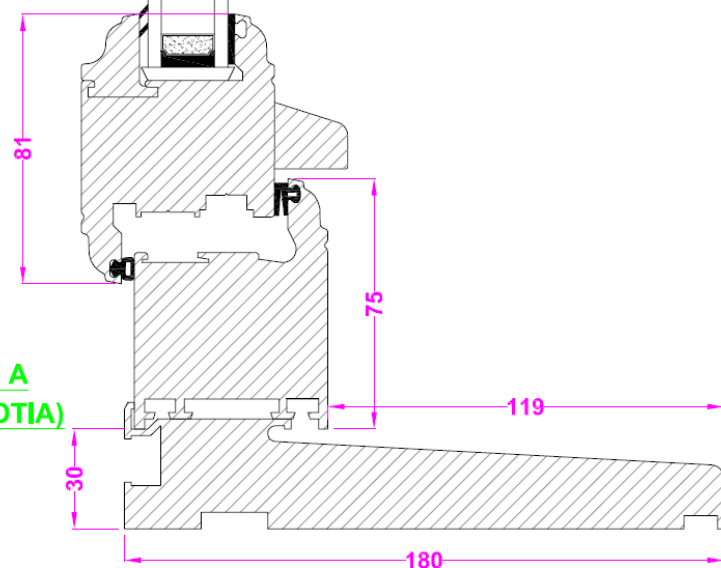
**SECTION THROUGH HEAD OF A
uPVC TILT & TURN WINDOW (SCOTIA)**

INSIDE



**SECTION THROUGH A TRANSOM OF
A uPVC TILT & TURN WINDOW (SCOTIA)**

OUTSIDE



**SECTION THROUGH BOTTOM OF A
uPVC TILT & TURN WINDOW (SCOTIA)**

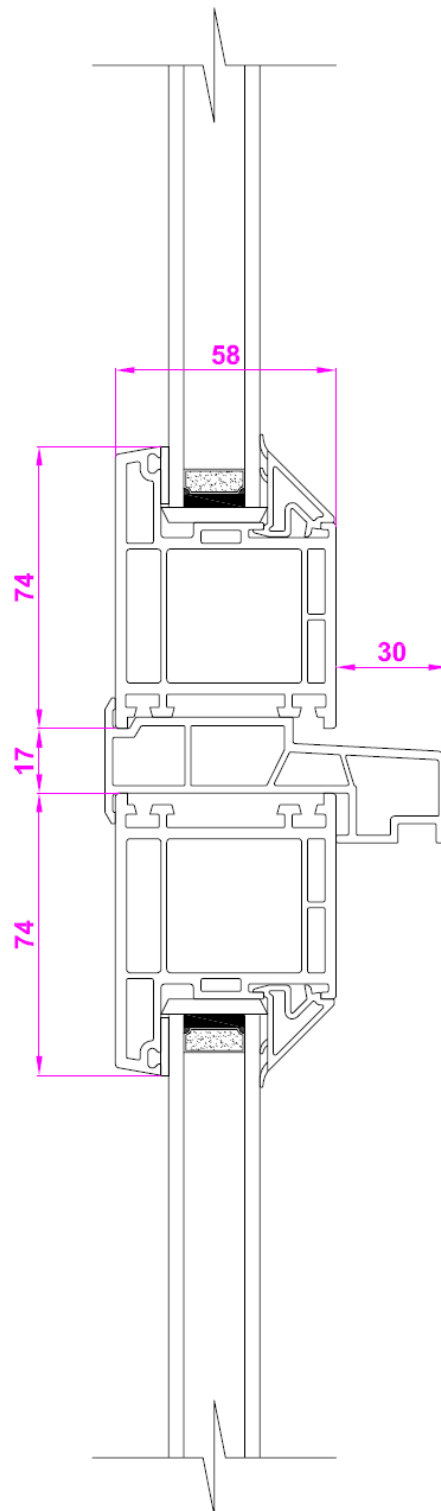
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uPVC STACKING CILL DETAIL

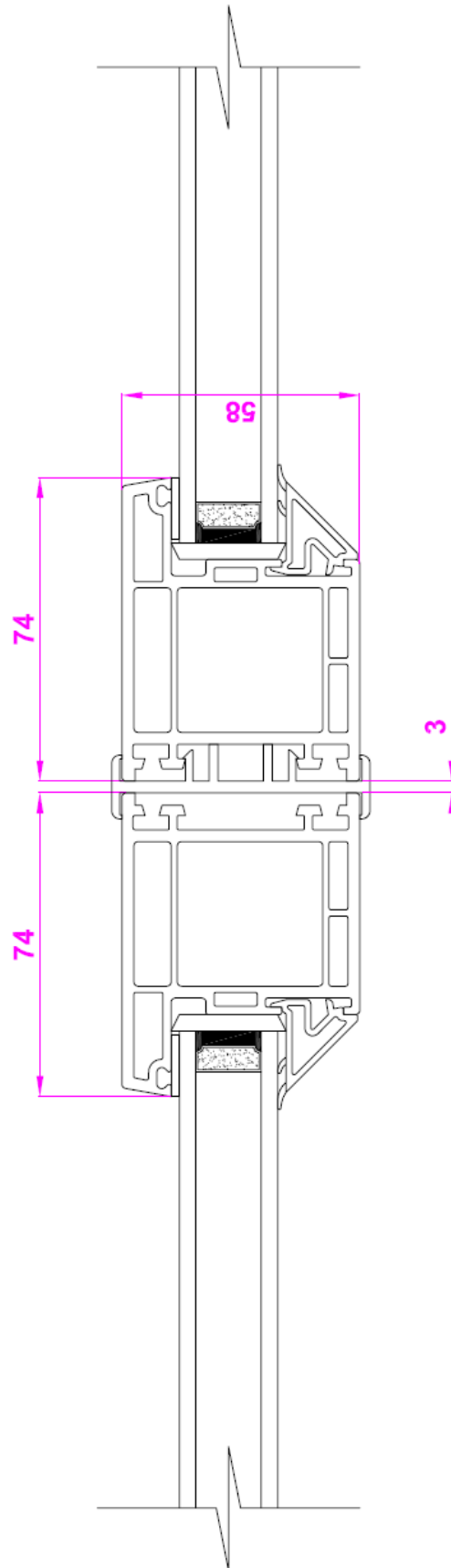
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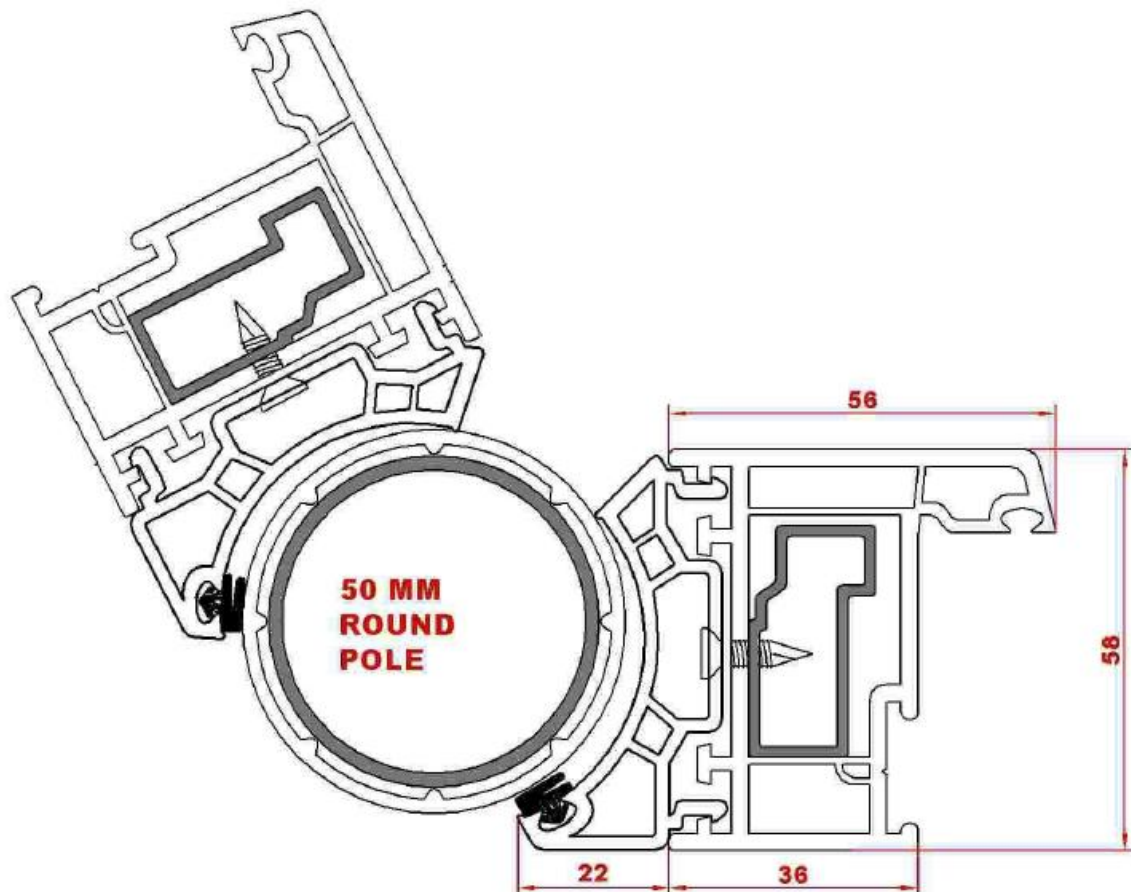
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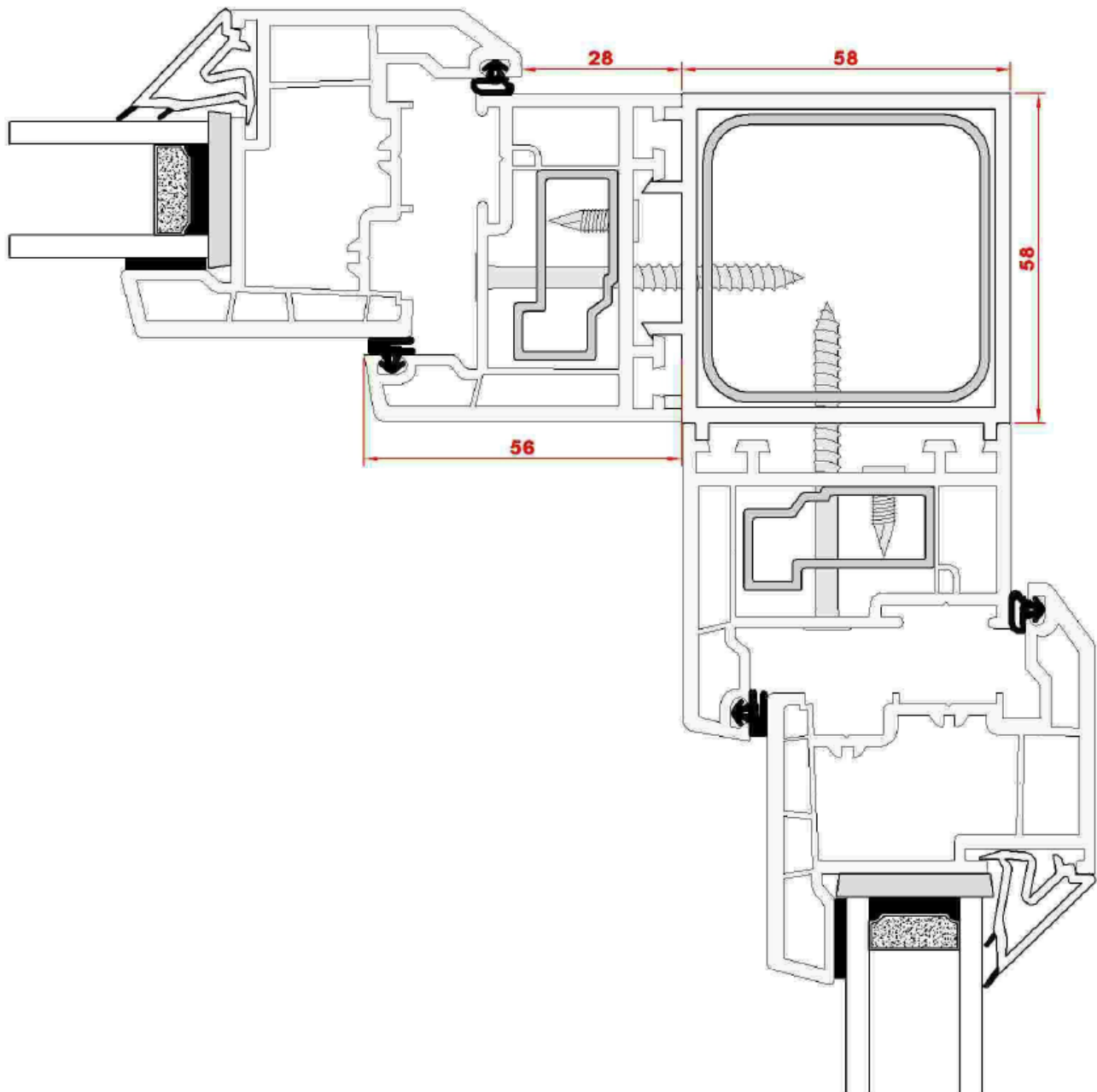


uPVC H-SECTION DETAIL

Splayed bay



Square bay



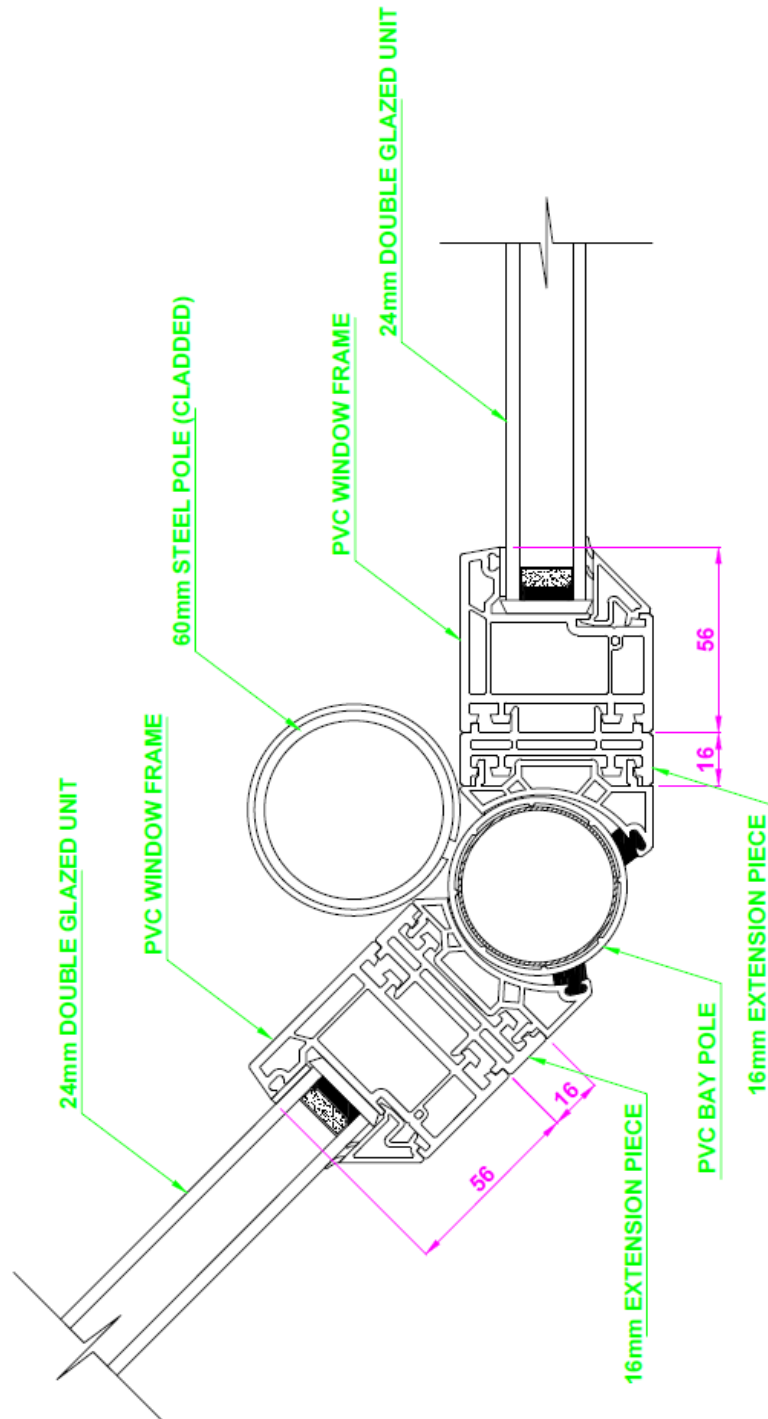
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PVC WINDOW AROUND STEEL (SPLAYED)

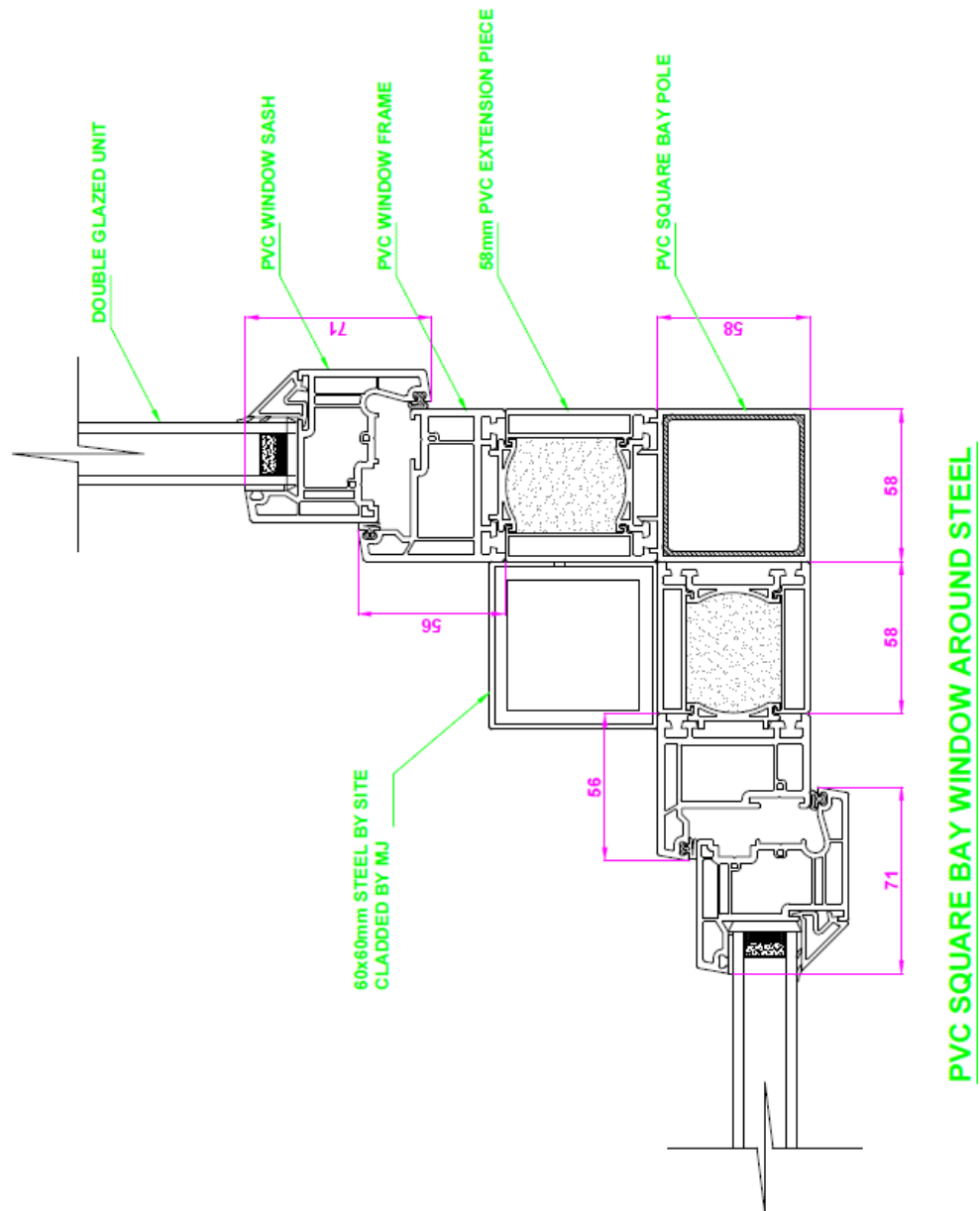
MUNSTER JOINERY UK LTD. - TECHNICAL INFORMATION SHEETS

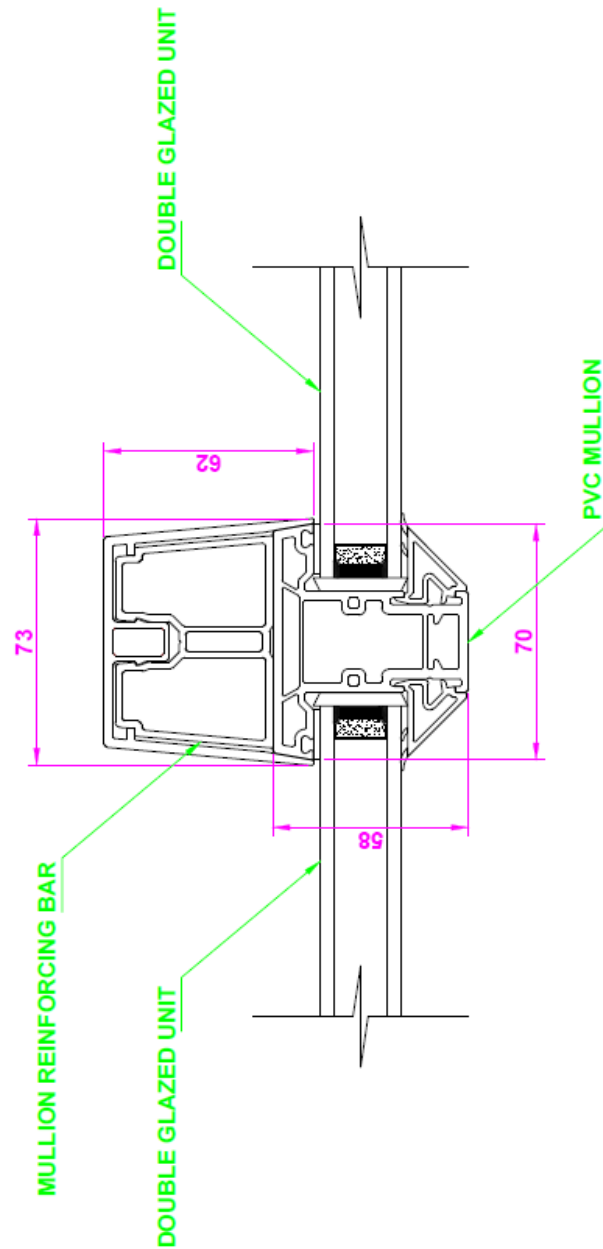
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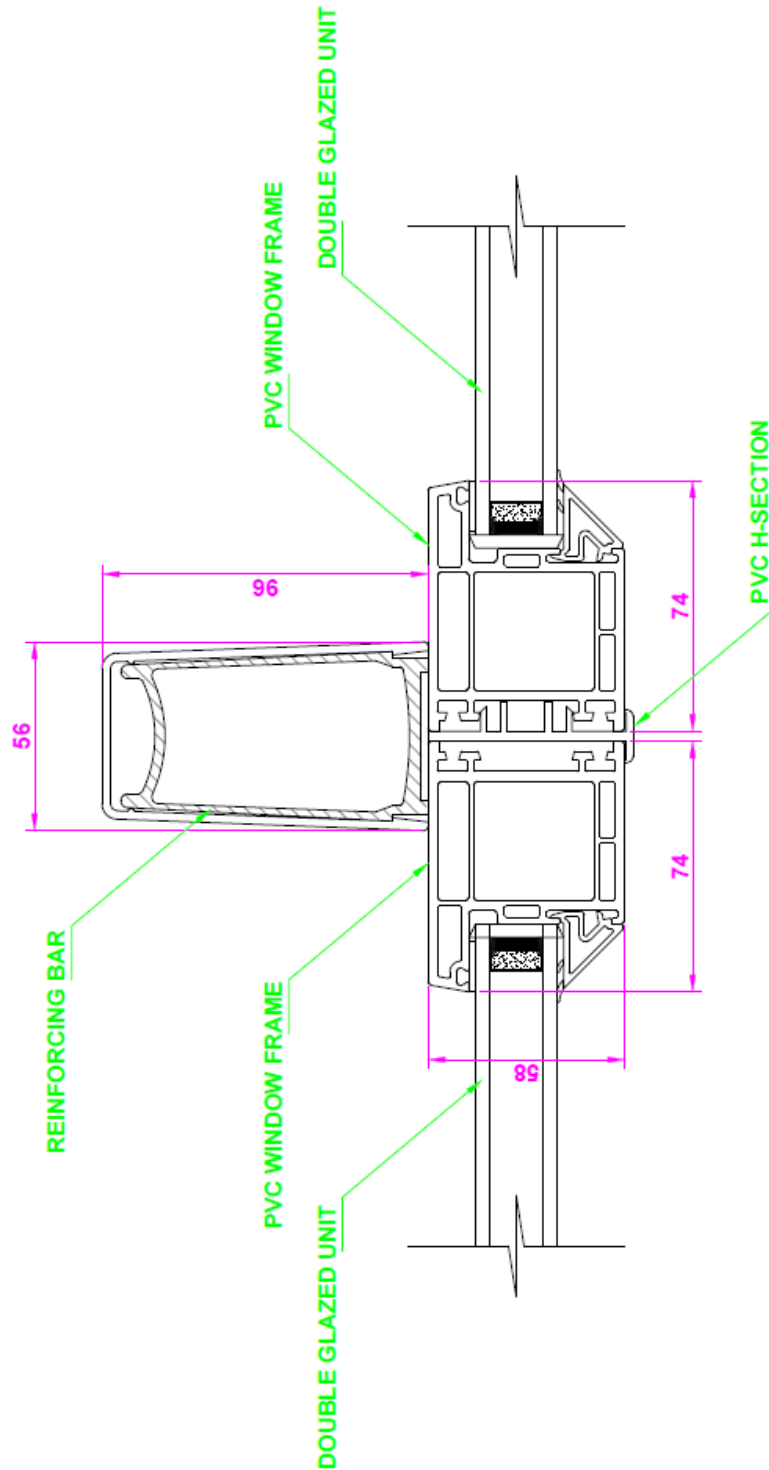
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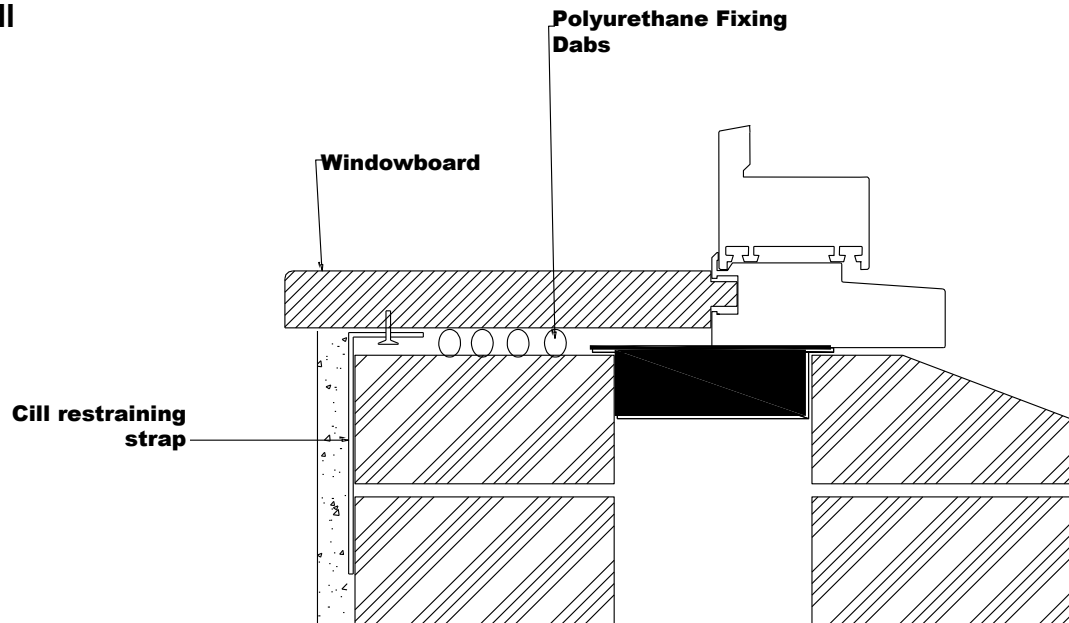
PVC WINDOW WITH MULLION REINFORCING BAR



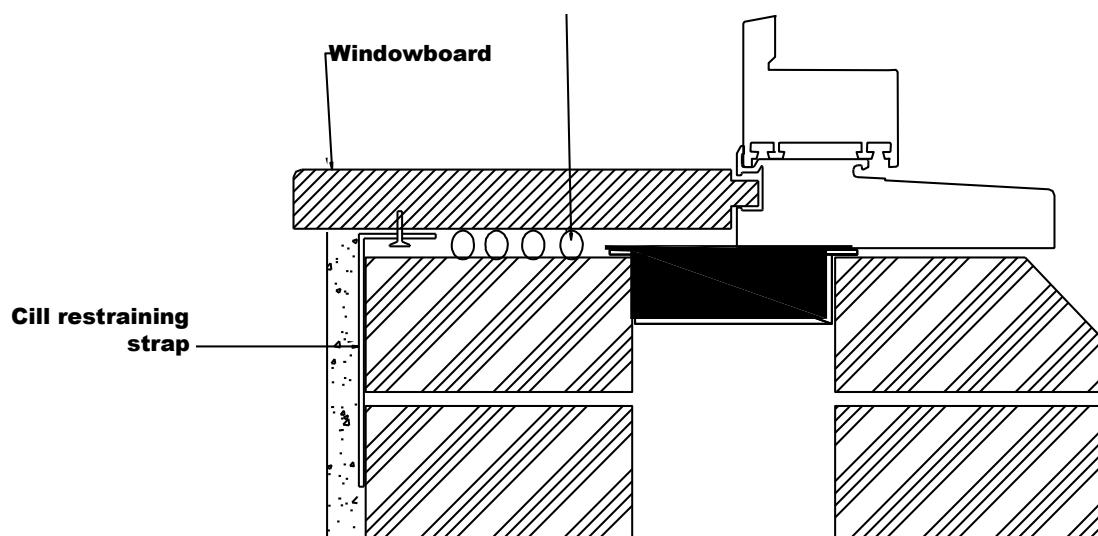
PVC WINDOW WITH REINFORCING BAR

uPVC CILL DETAILS

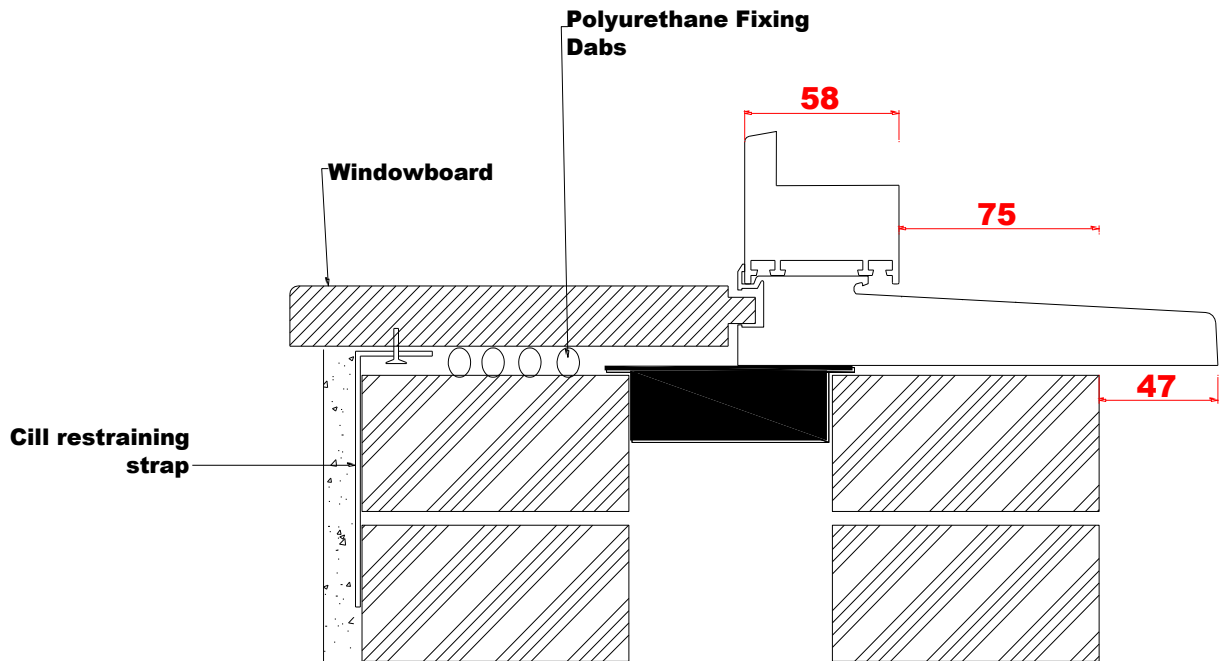
92mm Cill



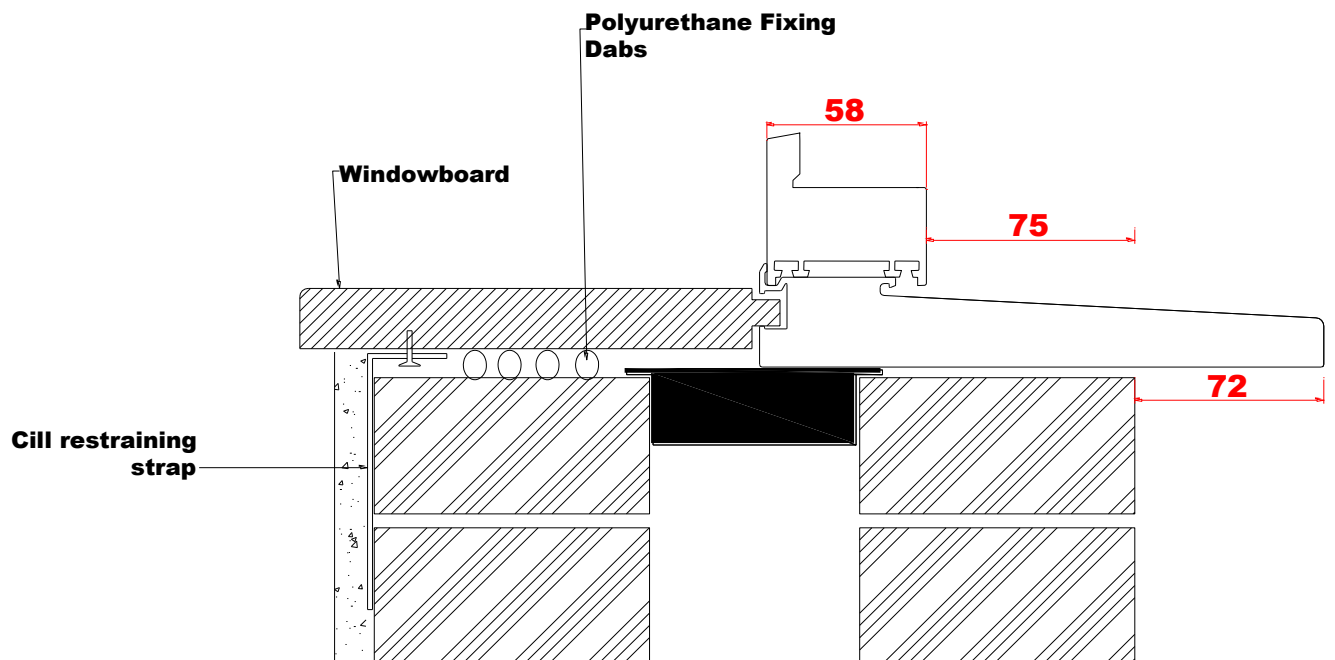
120mm Cill

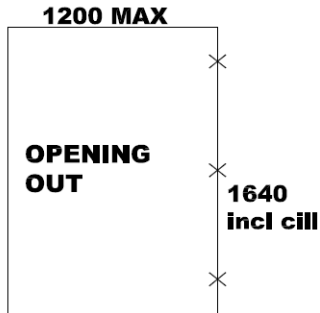


180mm Cill



205mm Cill

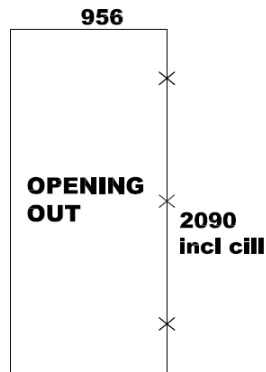


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PVC & Eco-Therm Door Section
Double Glazed Max: 4/14/6.8
Fitted with Door Hinge

1200 - 170 = 1030 Clear Opening
1640 - 180 = 1460 Clear Opening

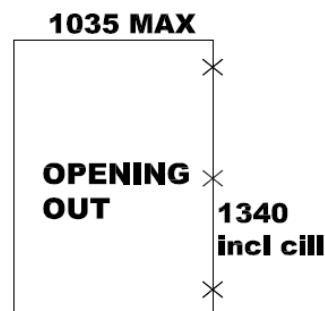
1.030 x 1.460 = 1.5 m² (when opened at 90 degrees)
Guard Rail may be required to be fitted
by the site to prevent falling from heights.

PROFILE:**Door****HINGE:****Door****VENT:****No****HANDLE & LOCKING SYSTEM:****No****RESTRICTORS:****Yes, Lockable until automatic mechanism is installed.**

PVC & Eco-Therm Door Section
Double Glazed Max: 4/14/6.8
Fitted with Door Hinge

956 - 170 = 786 Clear Opening
2090 - 180 = 1910 Clear Opening

0.786 x 1.910 = 1.5 m² (when open at 90 degrees)
Guard Rail may be required to be fitted
by the site to prevent falling from heights.

PROFILE:**Door****HINGE:****Door****VENT:****No****HANDLE & LOCKING SYSTEM:****No****RESTRICTORS:****Yes, Lockable until automatic mechanism is installed.**

PVC & Eco-Therm Door Section
Double Glazed Max: 4/14/6.8
Fitted with Door Hinge

1035 - 170 = 865 Clear Opening
1340 - 180 = 1160 Clear Opening

0.865 x 1.160 = 1.0 m² (when open at 90 degrees)

PROFILE:**Door****HINGE:****Door****VENT:****No****HANDLE & LOCKING SYSTEM:****No****RESTRICTORS:****Yes, Lockable until automatic mechanism is installed.****NOTE: AUTOMATIC MECHANISM IS TO BE INSTALLED BY OTHERS.**

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THE MUNSTER JOINERY uPVC WINDOW

The Munster Joinery uPVC window is now available in a range of top hung, side hung, combination and tilt & turn window configurations to allow flexibility of design.

Raw material

The window is manufactured from multi chamber profiles, extruded from a high impact strength modified uPVC compound. It complies with UEAtc Technical Guide for the Agreement of Windows in PVC U, MOAT No. 17: 1990, category B PVC U with polymer additives.

Furniture and fittings

Casements are hung with friction hinges made from stainless steel type 430 to BS 1449: Part 2: 1983 Steel plate, sheet and strip – Specification for stainless and heat resisting steel plate, sheet and strip. The hinges incorporate friction pads that can be adjusted to provide the necessary braking action.

Opening windows are fastened by means of push button locking handles manufactured from zinc alloy and available with various finishes. The handles operate espagnolette bolts to centrally lock the window. A night vent is built into the locking system. A restrictor (lockable or non lockable) is available to limit the opening of the window. All furniture is screwed to the profile using non-corrodible, self-tapping/drilling screws. The screws penetrate through two chamber walls or the equivalent thickness of uPVC to give a secure fix.

Glazing

Windows can be fitted with double or triple glazed units. The units are Argon filled as standard for improved thermal performance and incorporate low emissivity glass. The unit uses a thermoplastic spacer bar filled with high-grade molecular sieves. A primary PIB (Polyisobutylene) seal is applied coupled with a polyurethane outer seal to ensure a long life unit.

The glazing unit is exclusive to Munster Joinery and carries a BSI kite mark to BS EN1279 ref. Kite Mark Licence No KM 52169. The unit can incorporate toughened safety glass where required for the critical areas set out in the building regulations. The BSI classifies the toughened glass used as BS EN 12150 class A ref. Kite Mark Licence No. KM 52172.

The unit is glazed into the casement window using a security glazing tape, positioned on plastic packing pieces and externally beaded. Testing has shown that the adhesion provided by the tape is adequate to resist intrusion in line with the requirements of BS7950 (BSI PC PAS 011: 1994 improved security performance of domestic windows. Method of Test and Assessment). This glazing system has been approved by the BBA. Ref. BBA Agreement Certificate No. 95/3199.

Also available is a casement window which is glazed and beaded internally using dummy sashes. A tilt and turn window is also glazed and beaded internally.

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Thermal performance

The window can be supplied with different glazing configurations options to give the required thermal performance in terms of U-value. Glazing options include:

24 mm double glazed + Argon filled + soft coat low E + warm edge
U window = 1.4 W/m²K.

36 mm triple glazed + Argon filled + 2 panes soft coat low E + warm edge spacer
U window = 1.2 W/m²K.

Building regulations

- Means of escape in case of fire: Where a window is required to provide a means of escape in case of fire, Munster Joinery U.K. outward opening casement windows can meet the requirements when it incorporates an opening light providing a clear opening of not less than 0.33 m² in area with a lesser dimension of not less than 450 mm. The bottom of the sash has to be between 800 – 1100 mm of finished floor. Check that window board don't form a step.
- Means of ventilation: Part F of the Building Regulations – 2006 – Ventilation. Both whole building ventilation and purge ventilation must be provided. The window can be readily designed to meet the purge ventilation requirement of this regulation. Window ventilators are available for use with the window that can give the equivalent area required by Part F.
- Conservation of fuel and energy: The uPVC window when glazed with a 4-16-4 Argon filled double glazed unit with low E glass has a certified U-value of 1.4 W/m²K. This readily complies with the requirements of Part L of the Building Regulations.
- Check for glazing which will come below 800 mm from floor level and order toughened glass. If an opening section of the window comes below 800 mm from floor level a protective barrier must be fitted. If the builder wishes to avoid this then the bottom section should be fixed.

Installation

The window is installed by trained Munster Joinery U.K. personnel. The window is fixed into the cavity closer by means of galvanised steel fitting straps fixed to the frame and attached to the cavity closer by means of proprietary fixings. The window can also be fitted into the 3 sided or 4 sided cavity closer using bead fixing (white only). The fitting straps must be positioned not less than 150 mm from the corners and at centres to suit the window.

MUNSTER JOINERY UK LTD. - TECHNICAL INFORMATION SHEETS		
Title: <i>uPVC Windows</i>		
Section No: 5.01	Rev: E	Date issued: 01/02/2016

Quality

- The window is manufactured under an EN/IS/ISO9002 approved Quality System.
- The window is subject of BBA certificate No. 98/3485 C.
- The window has BBA Enhanced Resistance to Intrusion certificate and has been tested to BS7950.
- The window is subject of a Secured by Design license issued by ACPO Crime Prevention Initiatives Limited.
- The cavity close is subject by BBA certificate No. 02/3957.
- The glazing units are BSI Kite Mark certified to BS EN 12150 – ref. Kite Mark License No. KM52172.

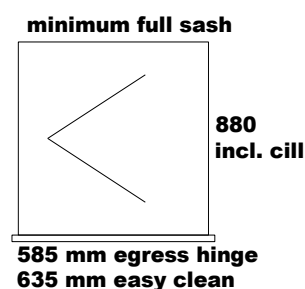
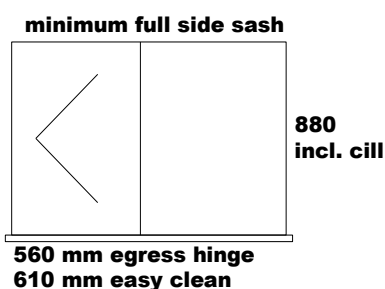
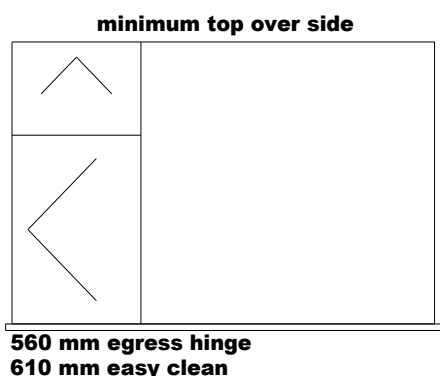
Fire Escape Windows (uPVC)

Fire Escape Windows must **each** be identified by the letters **F.E.W.** on the contract.

The window must have a non locking handle and the bottom of the sash must be between 800 – 1100 mm off finished floor.

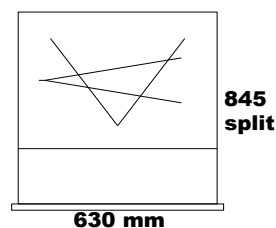
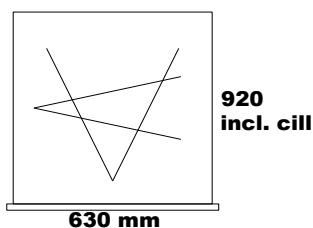
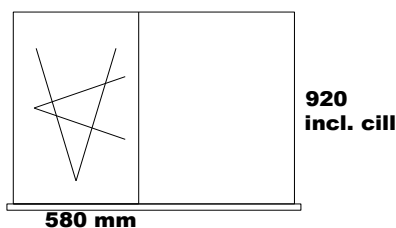
These are minimum window sizes to give 0.33m² clear opening, always check height from finished floor.

In the Casement range



- Note: When using Large Frame splits / sizes must be 20mm bigger all round.**

In the Tilt & Turn range



Alternative Fire Escapes

A fly mullion window will also provide a fire escape opening as will a sash within a sash window.

