

evolution[®]

Technical Manual
2018



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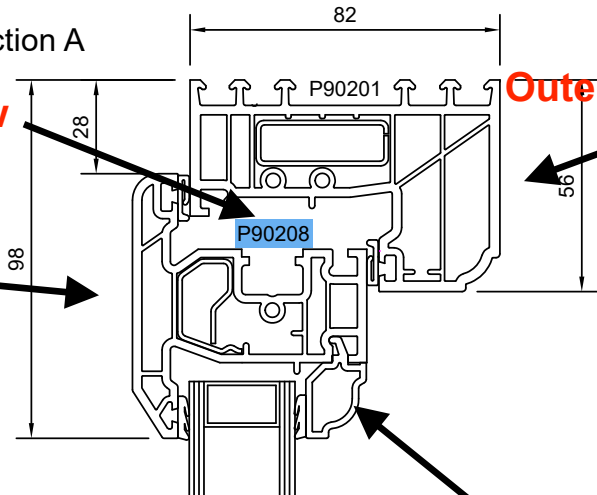
Bead and Glass here in your window

Sash

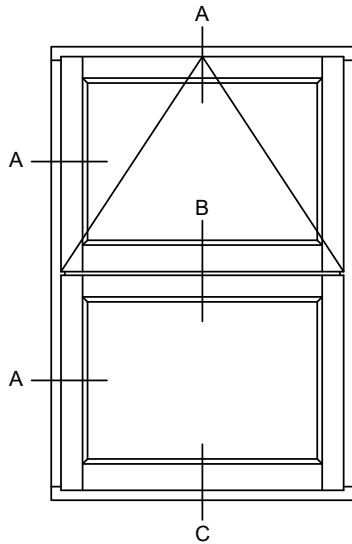
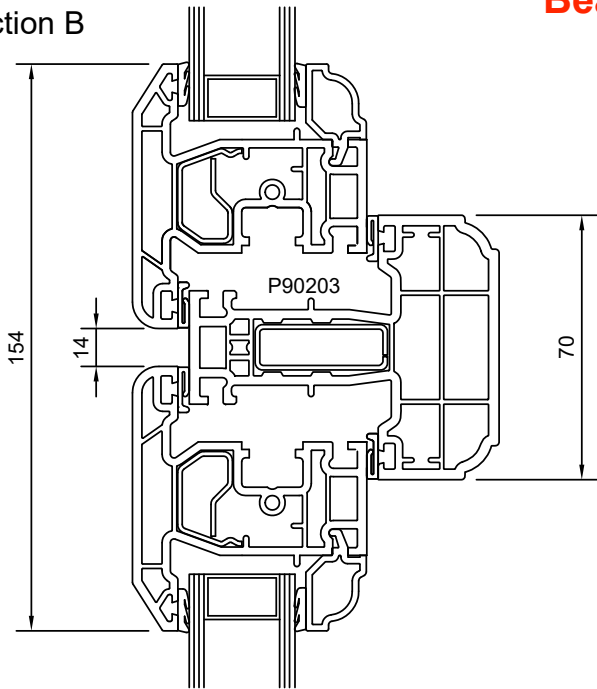
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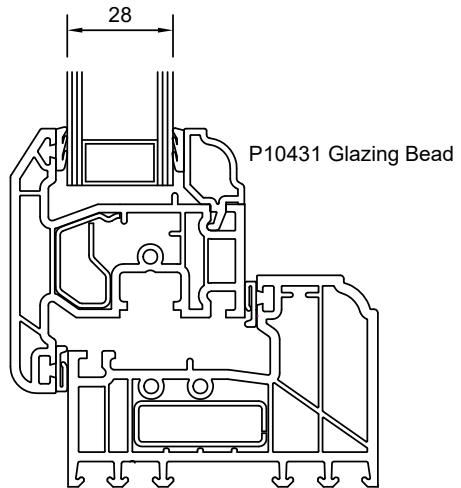
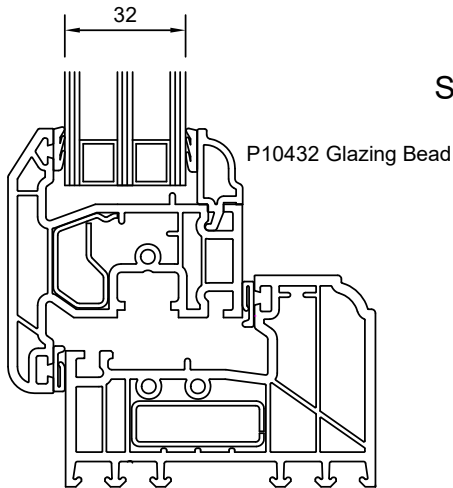
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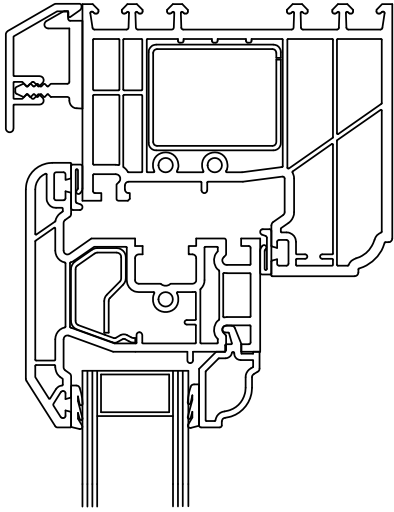
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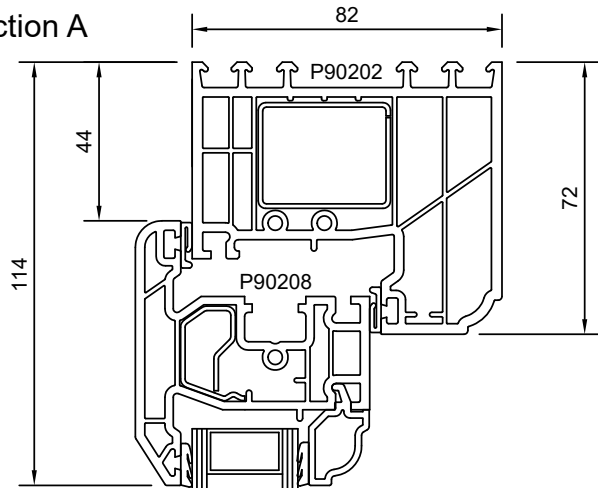
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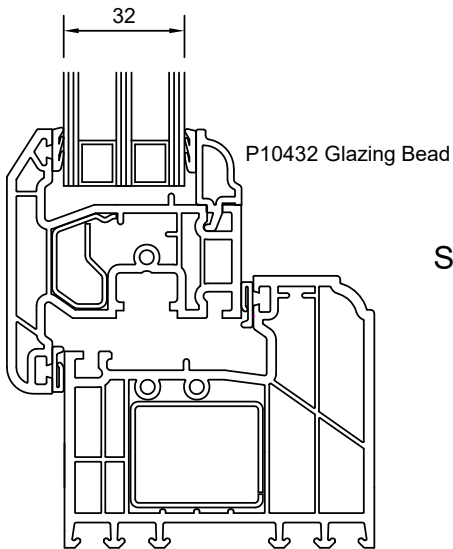
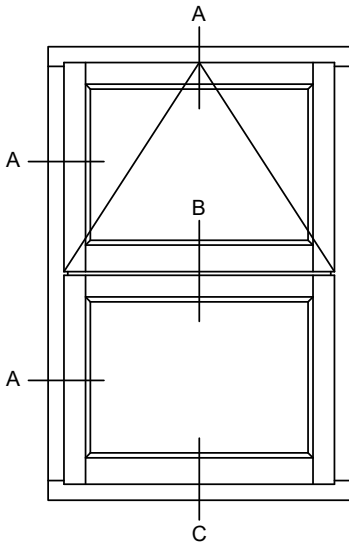
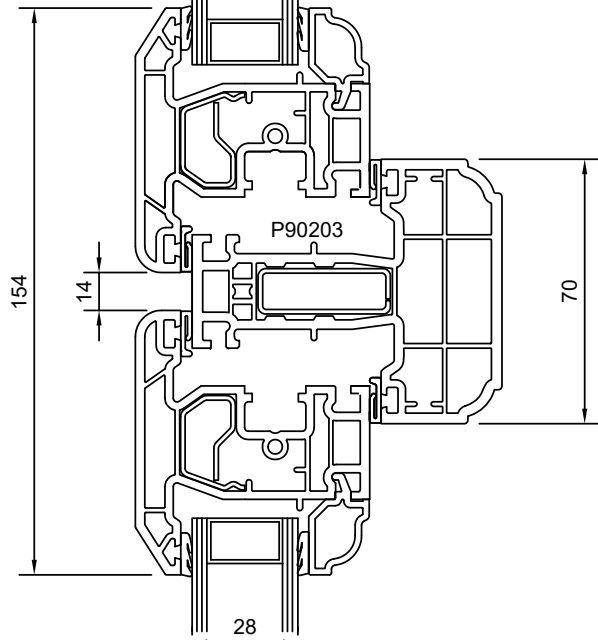
P91034 Head Drip / Ventilator Cover



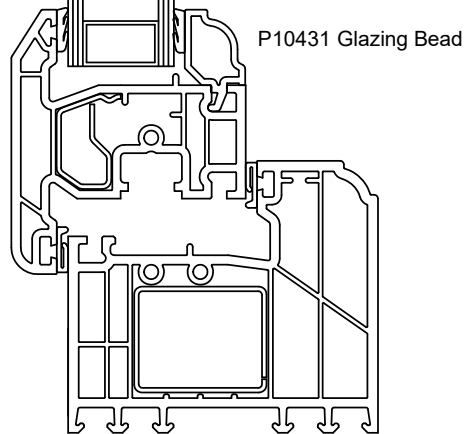
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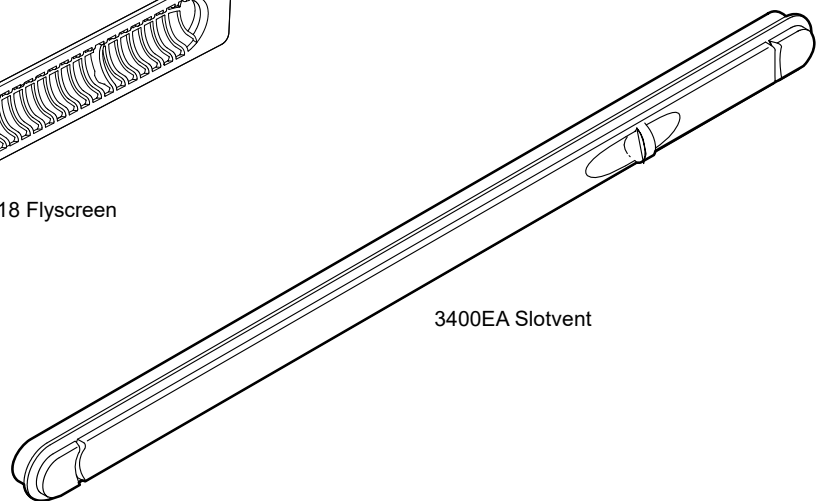
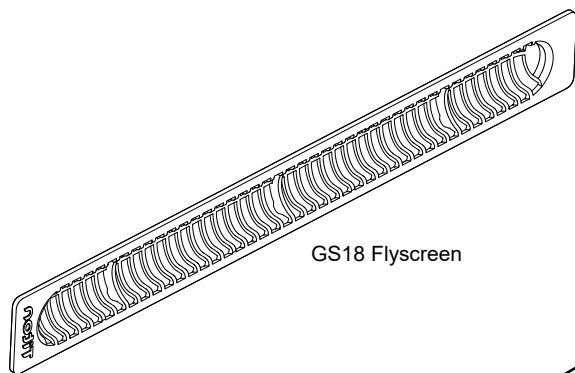
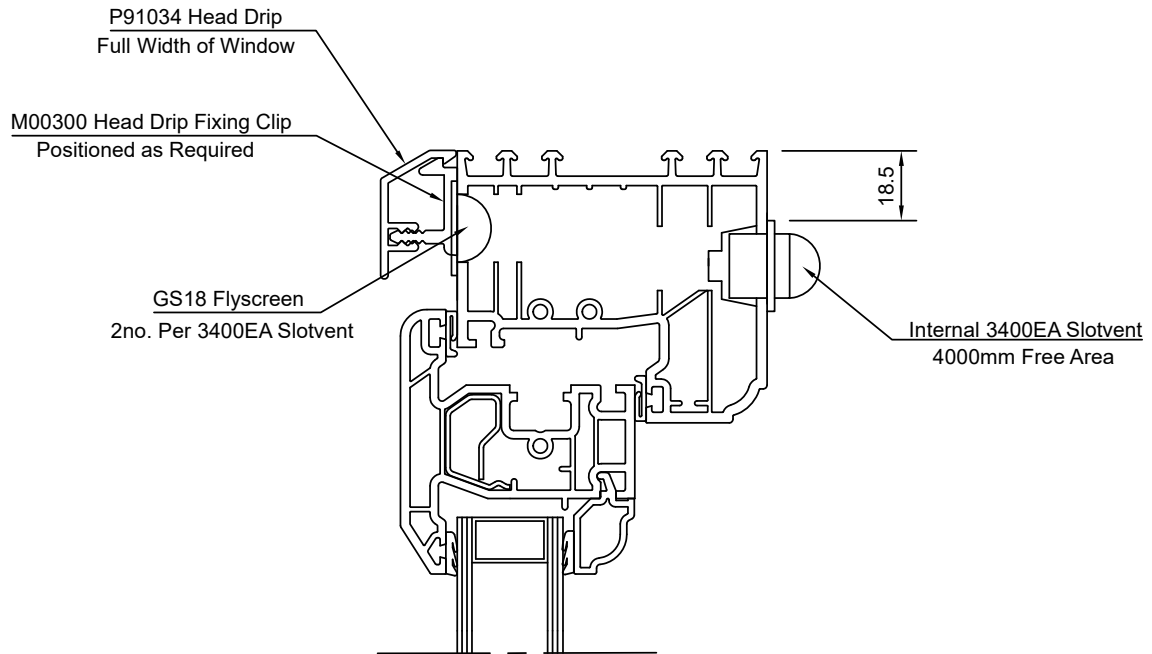


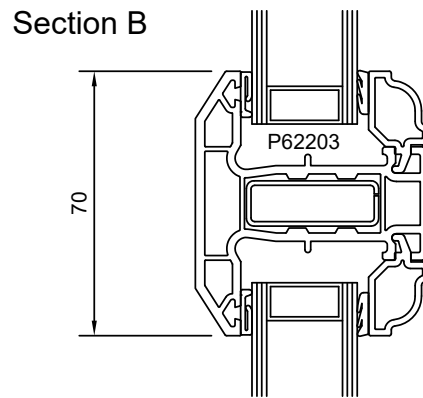
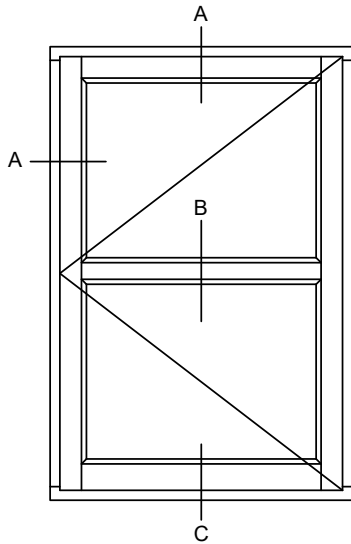
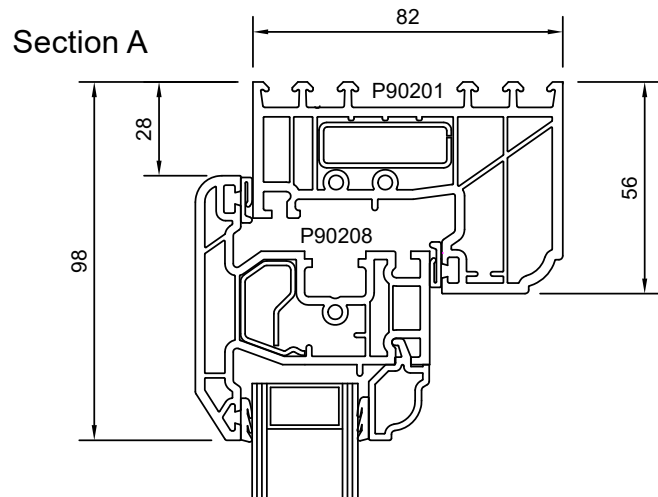
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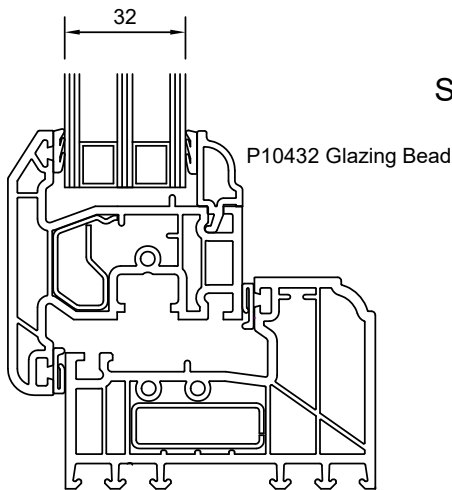
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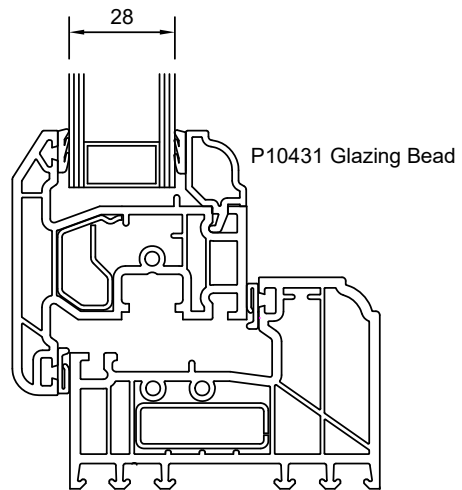




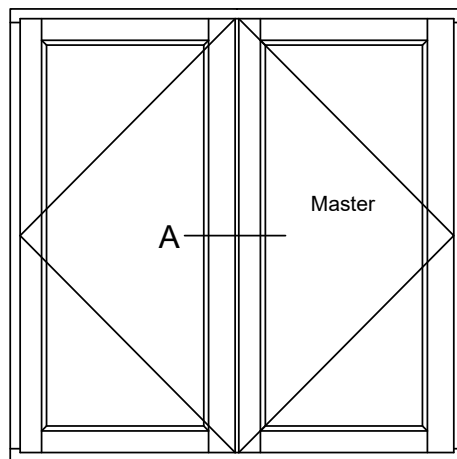
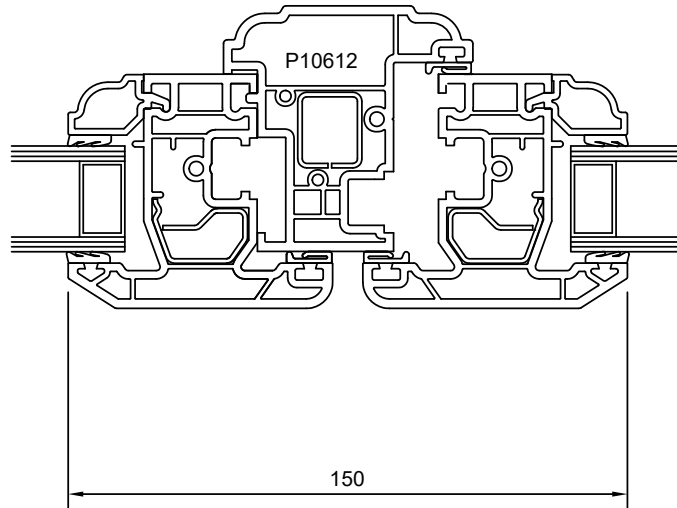
*Not available with Flush Casements



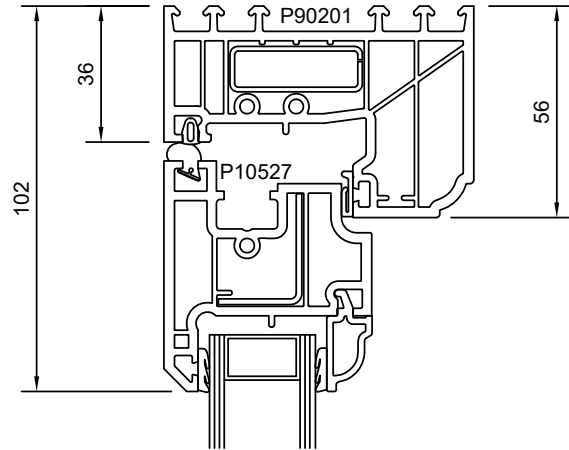
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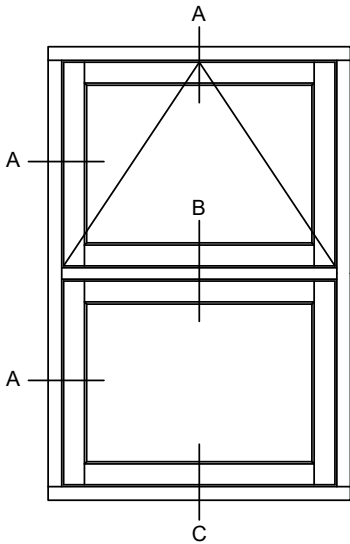
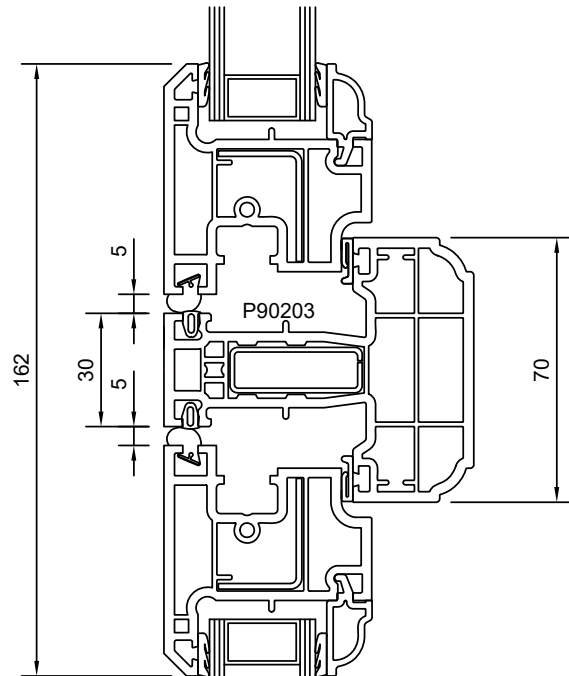
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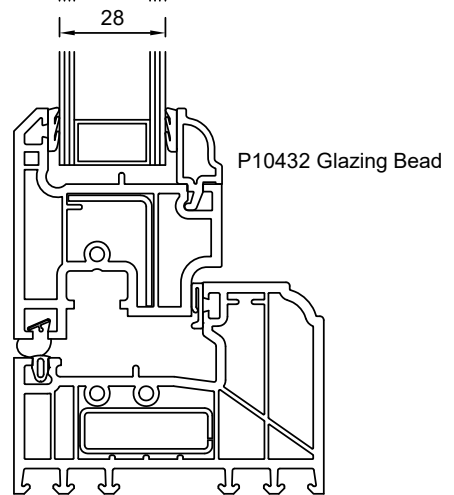
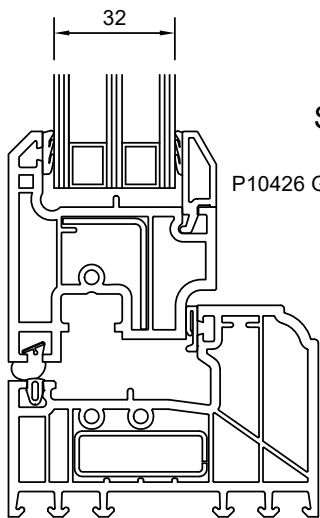
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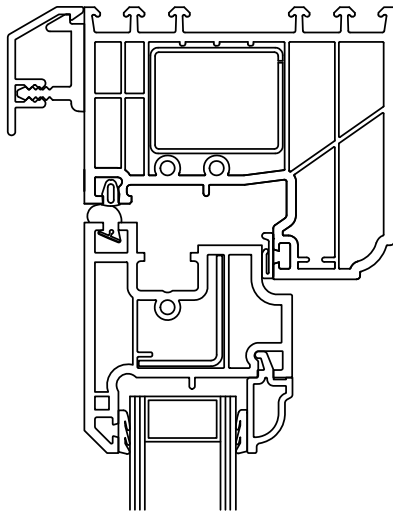
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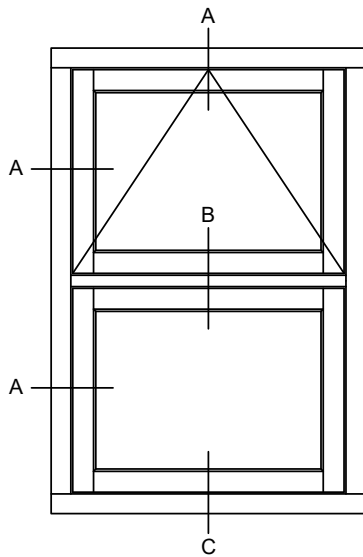
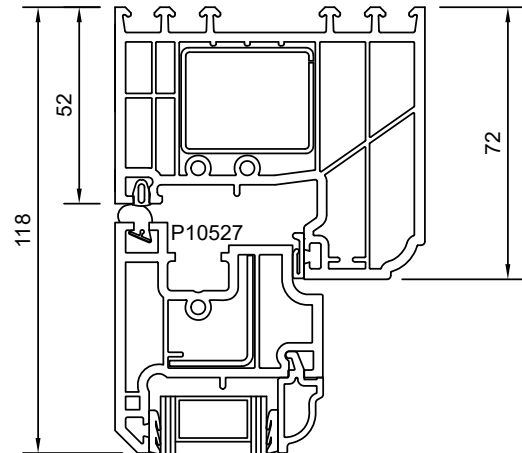
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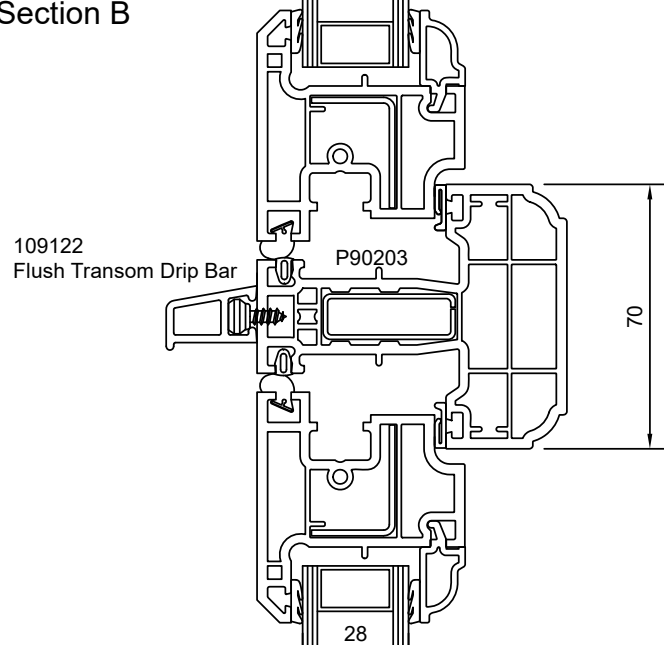
P91034 Head Drip / Ventilator Cover



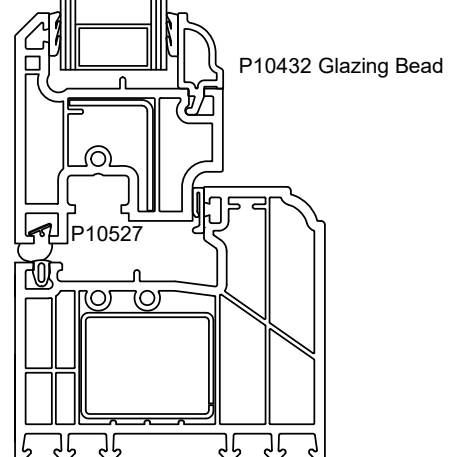
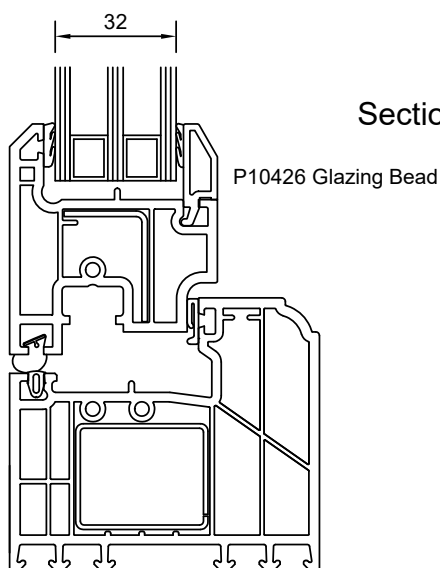
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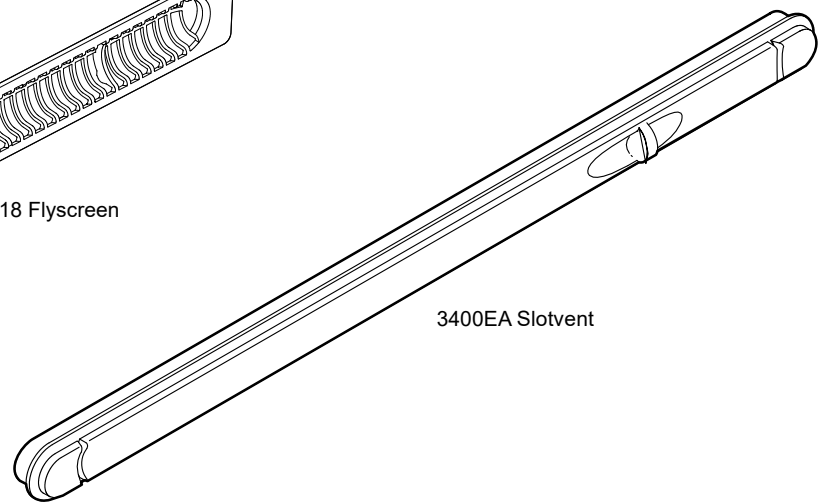
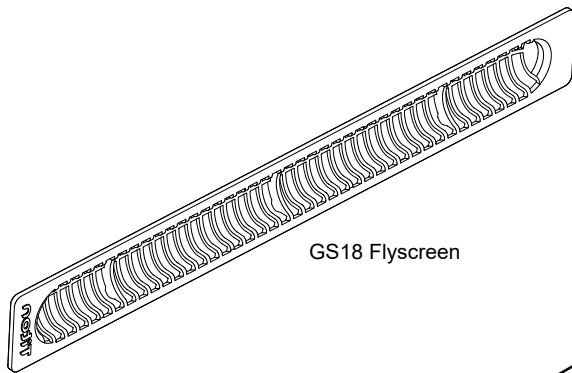
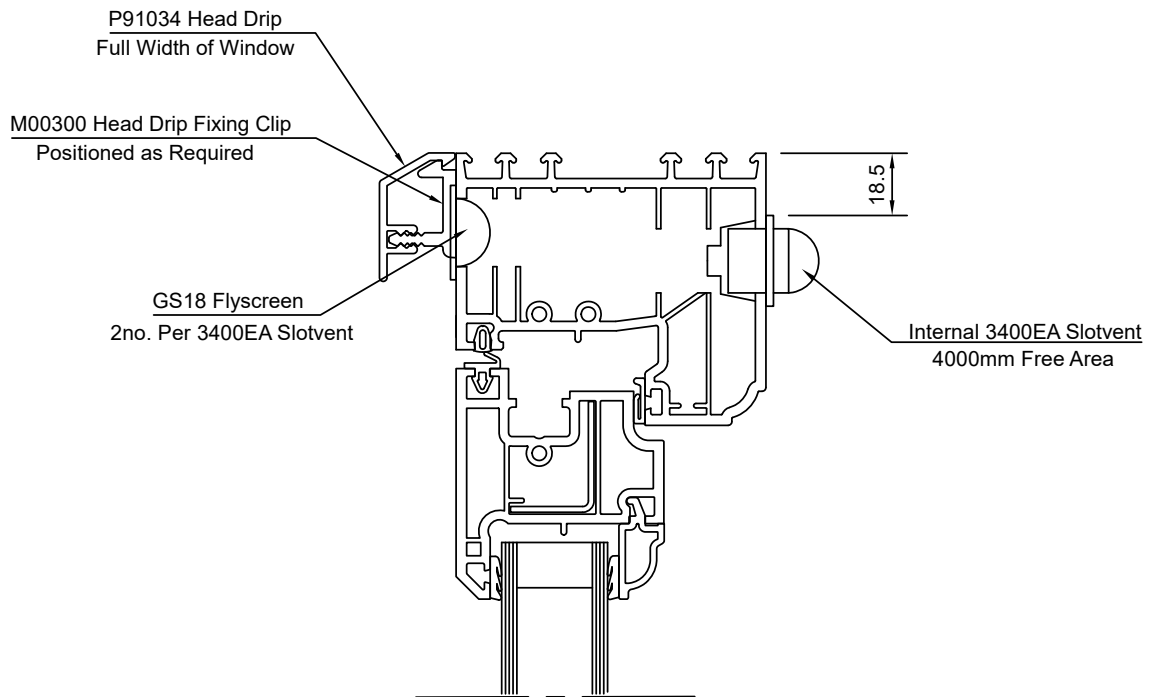


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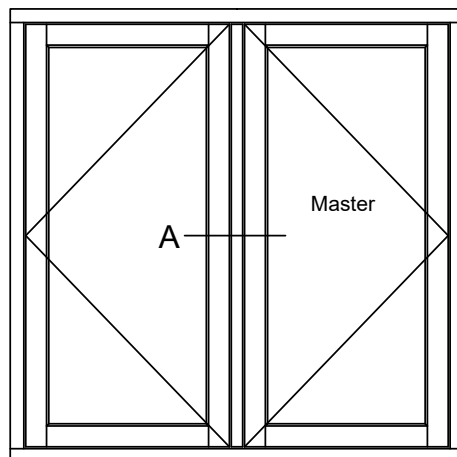
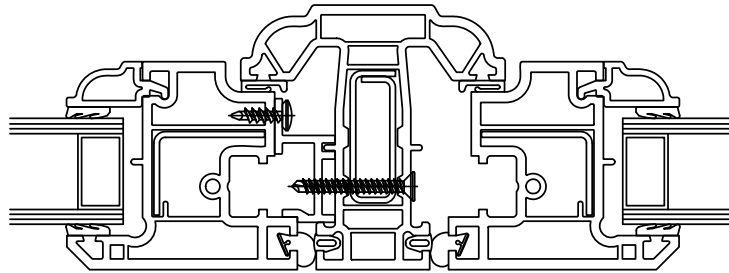
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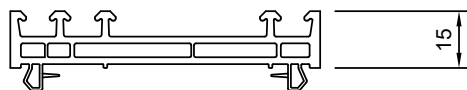


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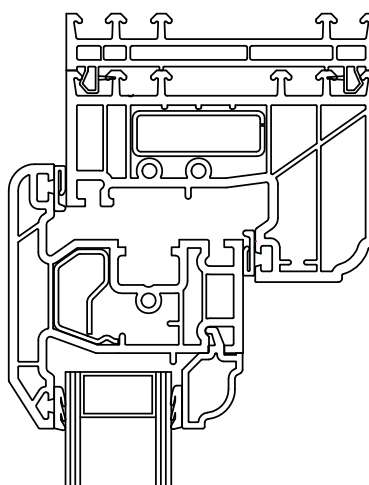
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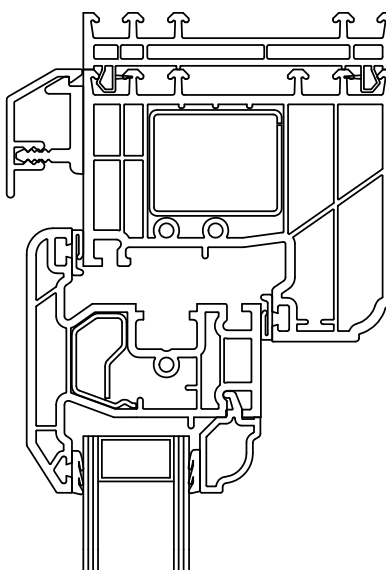
114 040 15mm Frame Extender

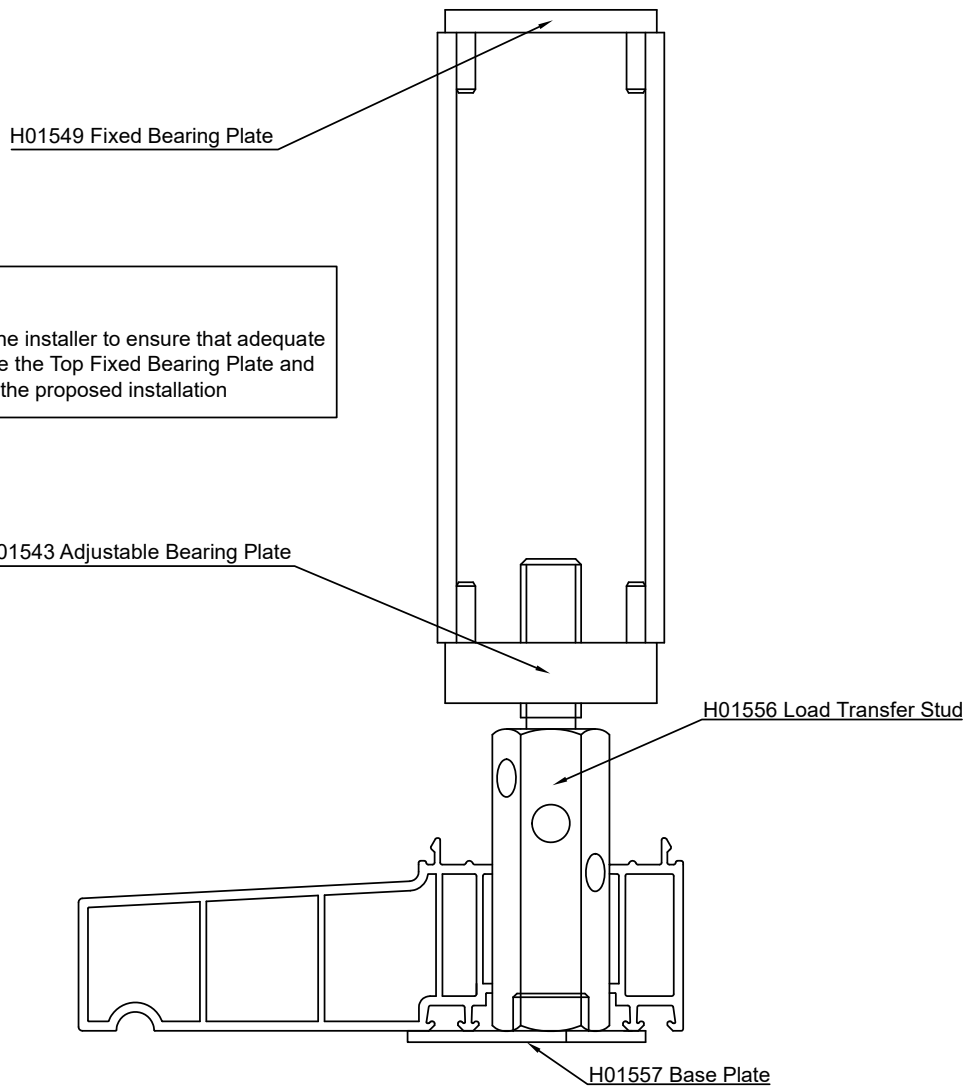
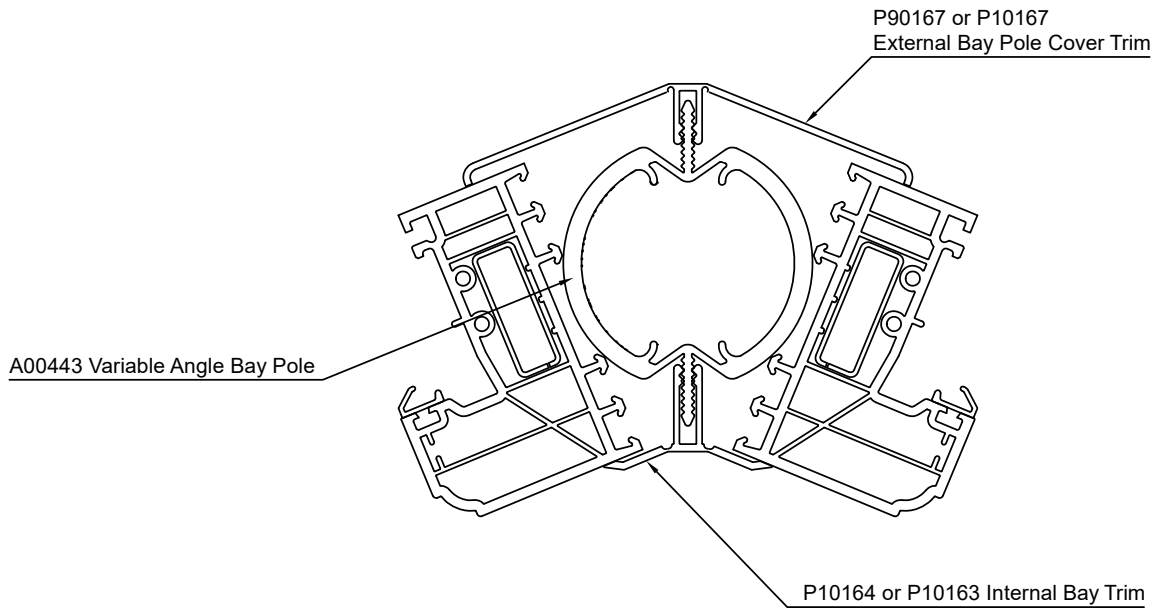


Clips to Head, Sides or Bottom of any Storm 2 Window or Door Outer Frame



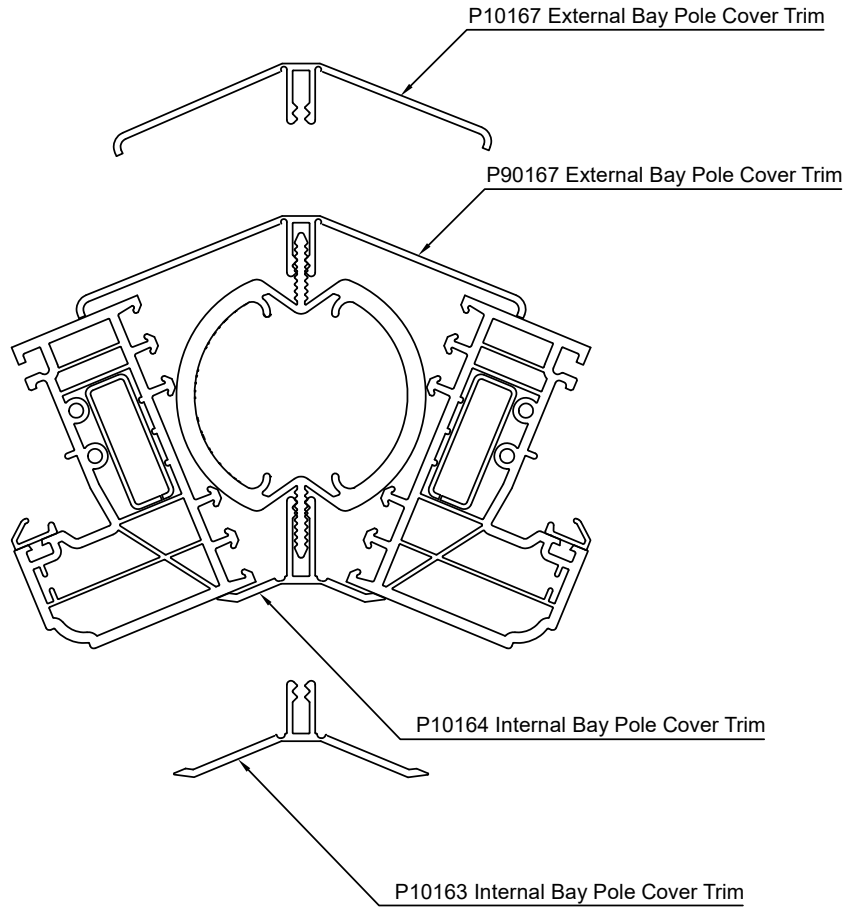
Please Note
If used in conjunction with Head Drip Bar,
the Extender will sit above the top of the
Outer Frame



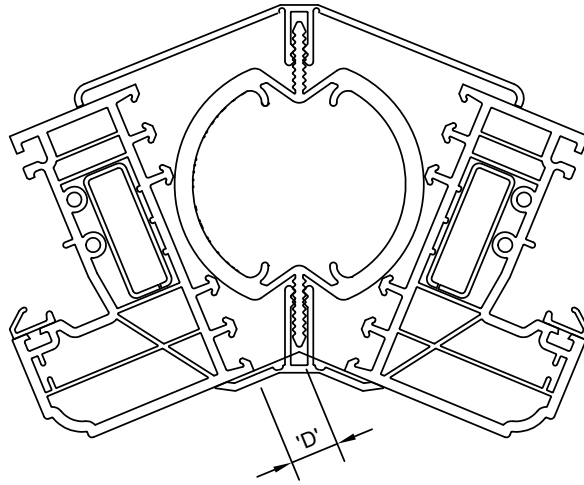


IMPORTANT

It is the responsibility of the installer to ensure that adequate support is provided above the Top Fixed Bearing Plate and below the Base Plate for the proposed installation



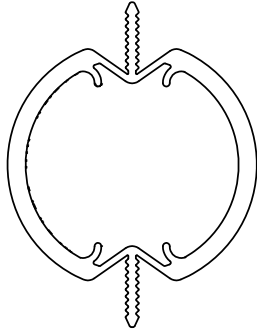
Bay Angle	External Bay Pole Cover	Internal Bay Pole Cover
110° - 119°	P90167	No Internal Cover
120° - 149°	P90167	P10164
150° - 155°	P90167	P10163
156° - 169°	P10167	P10163



Bay Angle	Deduction 'D' mm
110°	0.9
111°	1.4
112°	1.9
113°	2.5
114°	3.0
115°	3.5
116°	4.0
117°	4.5
118°	5.0
119°	5.4
120°	5.9
121°	6.4
122°	6.9
123°	7.3
124°	7.8
125°	8.3
126°	8.7
127°	9.2
128°	9.6
129°	10.0
130°	10.5
131°	11.0
132°	11.3
133°	11.8
134°	12.2
135°	12.6
136°	13.0
137°	13.4
138°	13.9
139°	14.3

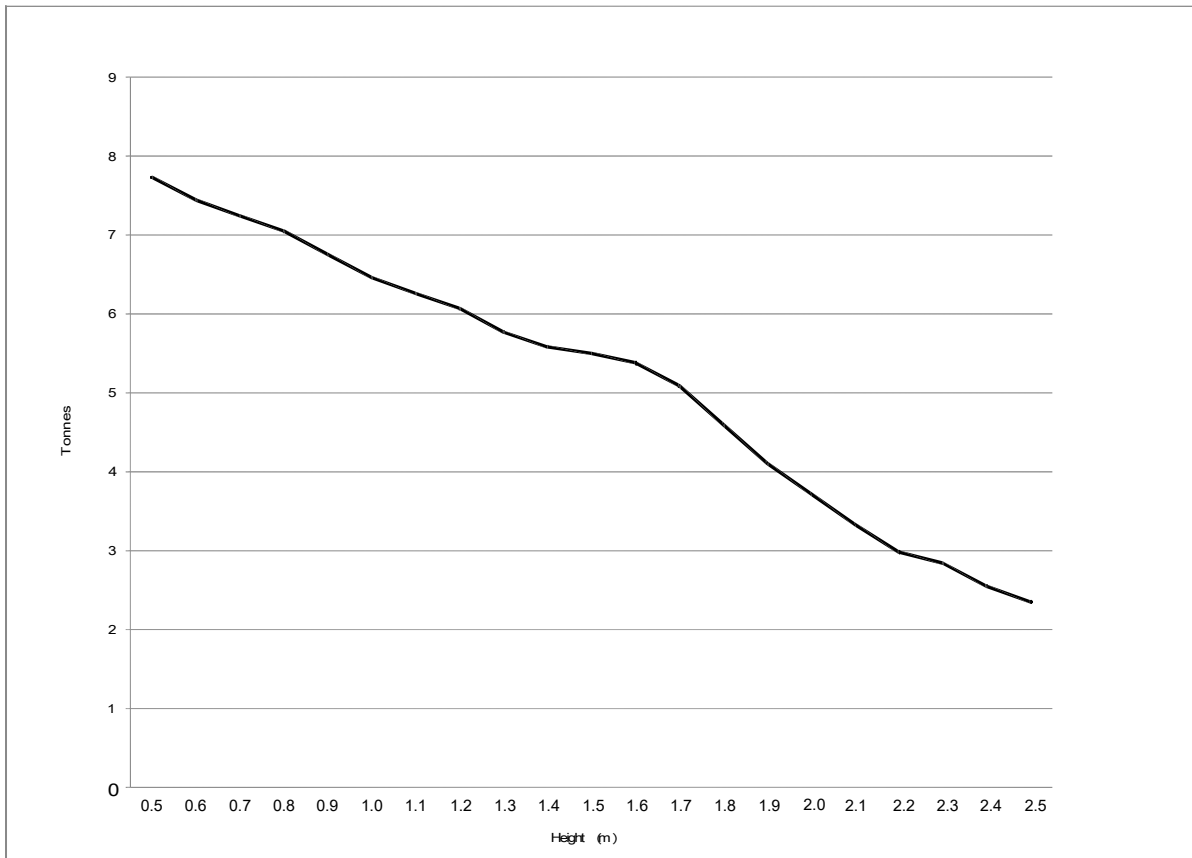
Bay Angle	Deduction 'D' mm
140°	14.7
141°	15.1
142°	15.5
143°	15.9
144°	16.3
145°	16.7
146°	17.1
147°	17.5
148°	17.8
149°	18.2
150°	18.6
151°	19.0
152°	19.4
153°	19.8
154°	20.1
155°	20.5
156°	20.9
157°	21.3
158°	21.6
159°	22.0
160°	22.4
161°	22.7
162°	23.1
163°	23.5
164°	23.8
165°	24.2
166°	24.6
167°	24.9
168°	25.3
169°	25.6

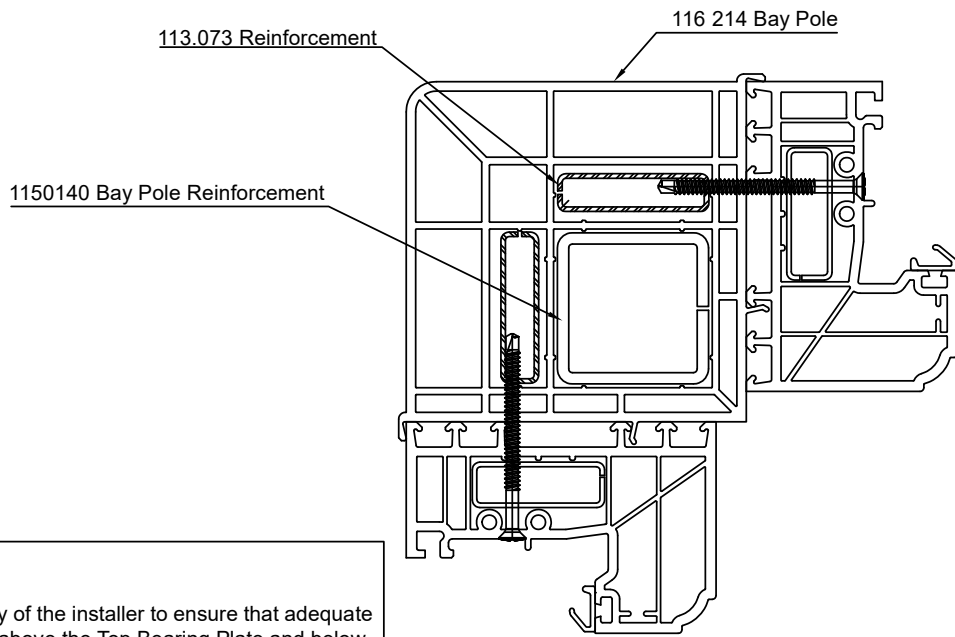
A00443



Height	Tonnes
500	7.73
600	7.44
700	7.24
800	7.05
900	6.75
1000	6.46
1100	6.26
1200	6.07
1300	5.77
1400	5.58
1500	5.5
1600	5.38
1700	5.09
1800	4.6
1900	4.11
2000	3.72
2100	3.33
2200	2.98
2300	2.84
2400	2.55
2500	2.35

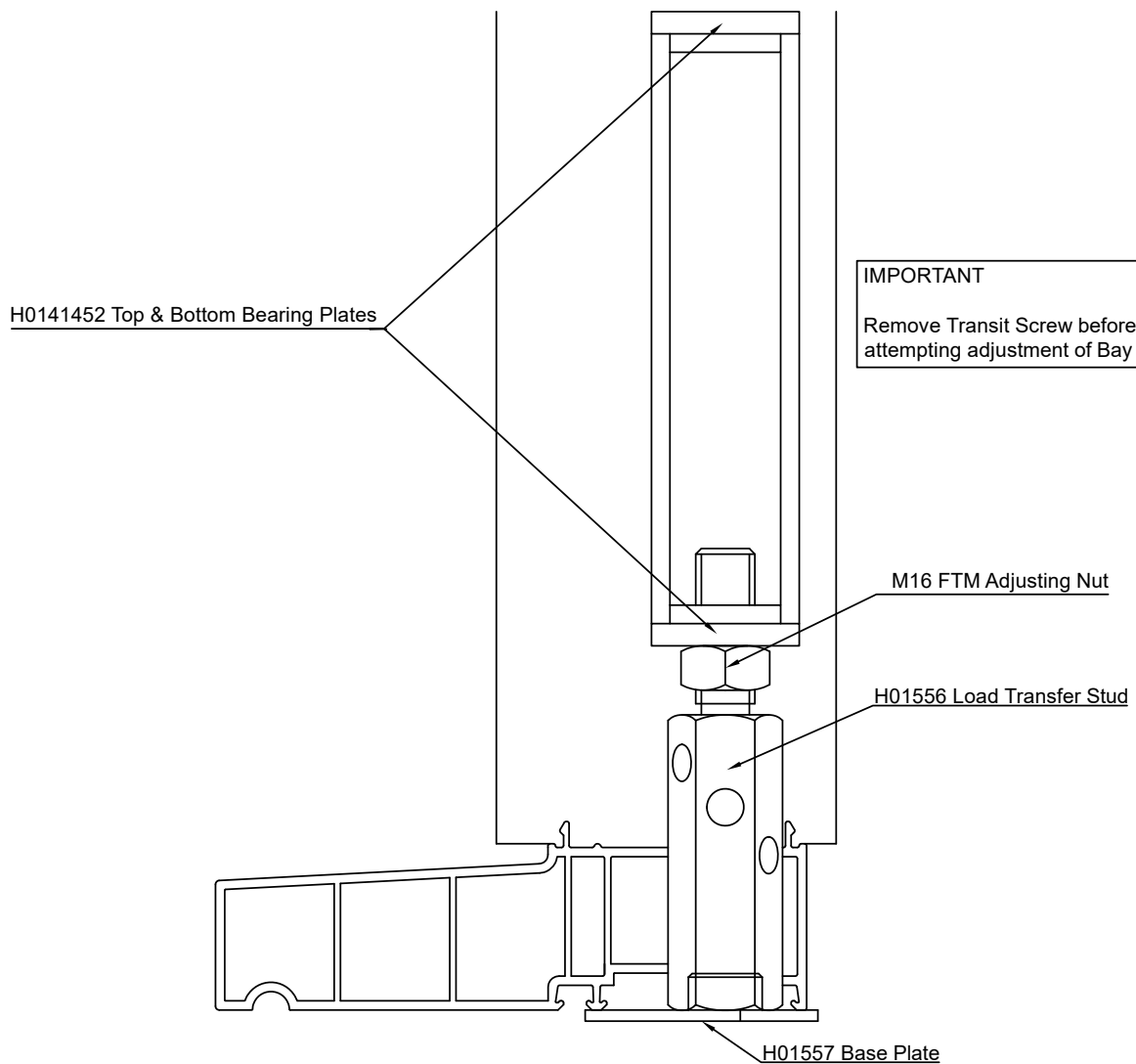
Please note that the use of our adjustable bay jacking kits limits the load bearing capacity to 3 tonnes





IMPORTANT

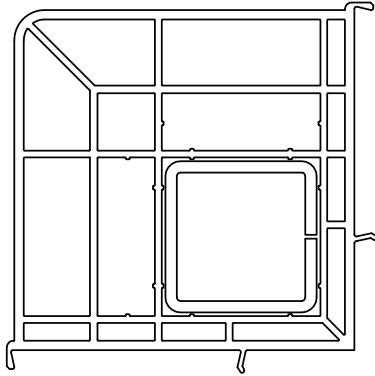
It is the responsibility of the installer to ensure that adequate support is provided above the Top Bearing Plate and below the Base Plate for the proposed installation



IMPORTANT

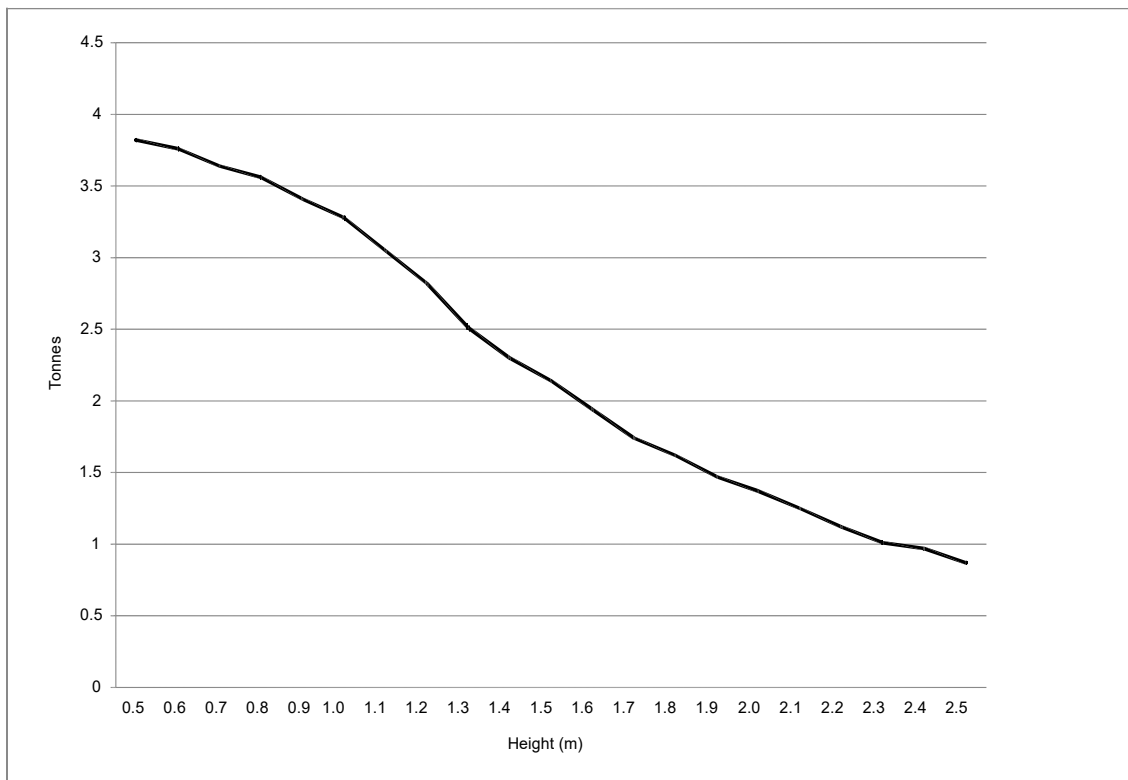
Remove Transit Screw before attempting adjustment of Bay Pole

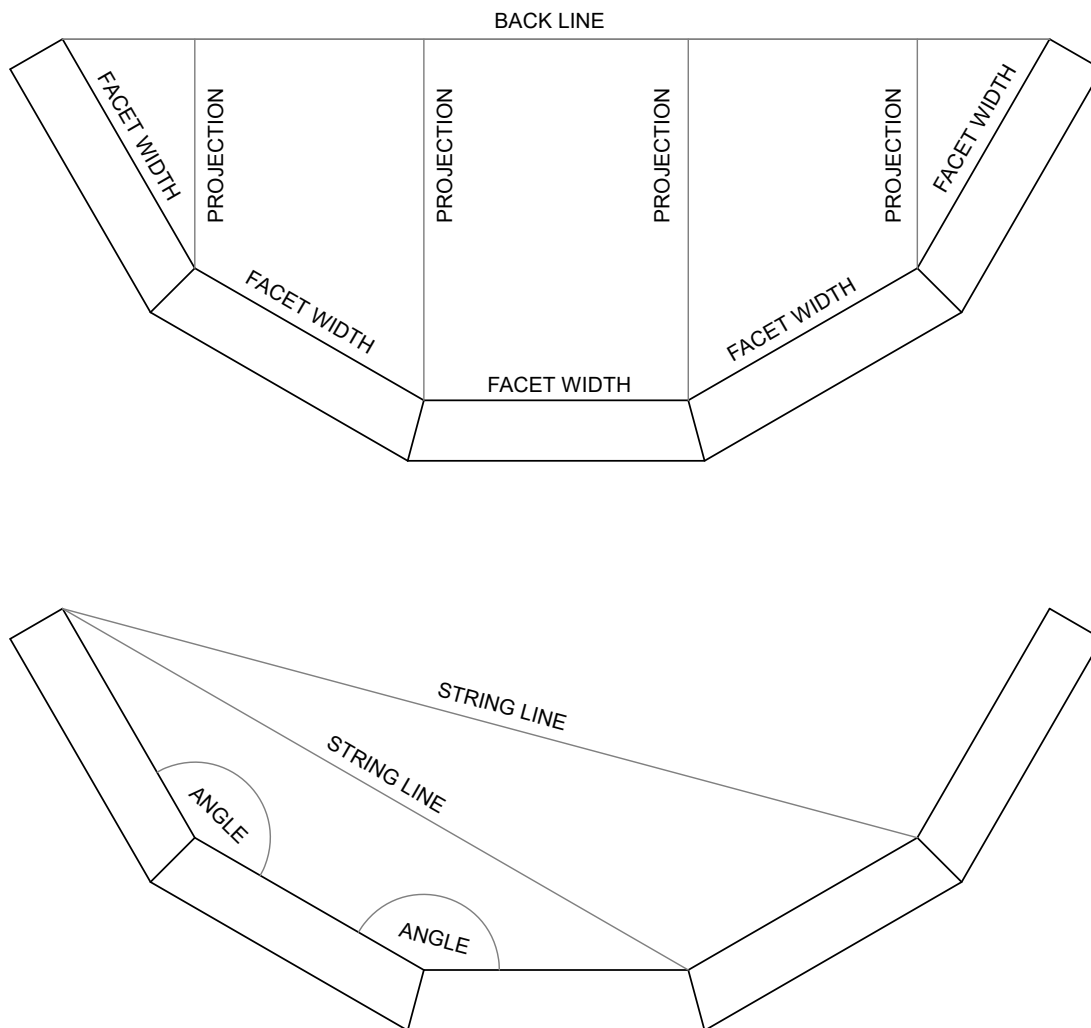
113128



Height	Tonnes
500	3.82
600	3.76
700	3.64
800	3.56
900	3.41
1000	3.28
1100	3.05
1200	2.82
1300	2.51
1400	2.3
1500	2.14
1600	1.94
1700	1.74
1800	1.62
1900	1.47
2000	1.37
2100	1.25
2200	1.12
2300	1.01
2400	0.97
2500	0.87

Please note that the use of our adjustable bay jacking kits limits the load bearing capacity to 3 tonnes





A Back Line measurement in combination with a Projection measurement only will result in a layout with equal Facet Widths and Angles, and works best for Bow Windows which are to be fitted into an opening where a flat window has been installed previously. We can input Bow Windows using the existing opening width of the window and our software will, at the press of a button, automatically reduce the dimensions so that the completed assembly fits neatly into the existing opening.

For the most part, if measuring an existing Bay Window internally, the Facet Widths and internal Angles are sufficient to generate a layout. However, the addition of a Back Line measurement helps in checking the accuracy of the dimensions obtained.

Projections are not so easy to obtain as this requires the setting up of some form of datum piece from which to measure the Projections from.

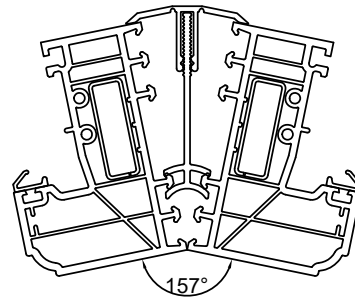
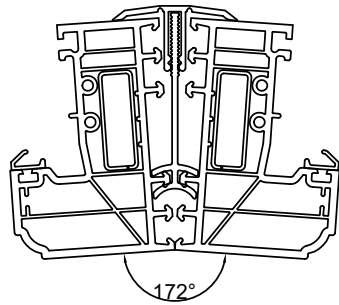
String Lines can also be useful but, with the emergence of accurate angle measuring tools, this type of check measurement has become largely redundant.

Note.

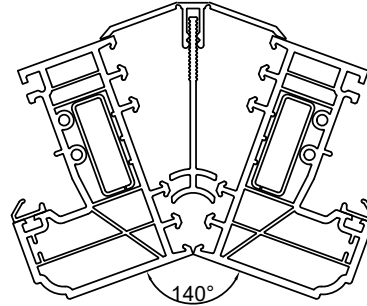
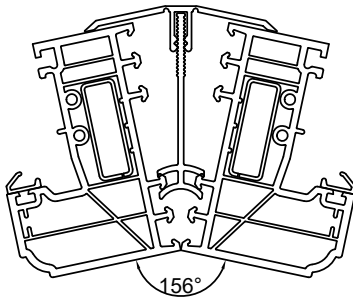
All Evolution Bay Windows should be measured internally to allow them to fit back to existing window boards. If existing Bay Window frames have to be measured externally it is crucial that we know the thickness of the existing frames. Our software will only recognise 82mm and 70mm thick framework when calculating the internal measurements from external measurements.

Bay Pole Trims required when processing Storm 2 and Flush Bow or Bay Windows without Variable Bay Poles

Part No.
P10164

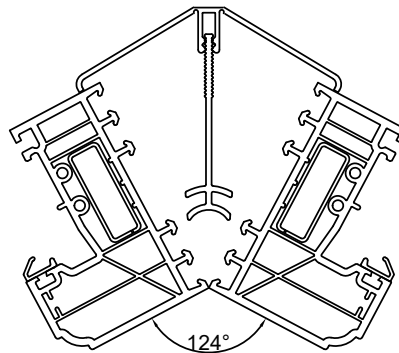
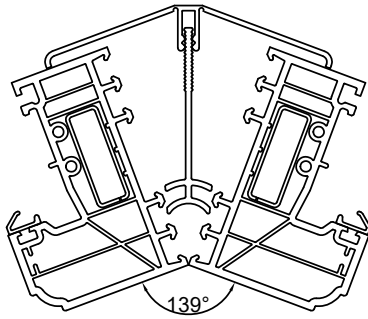


Part No.
P10163

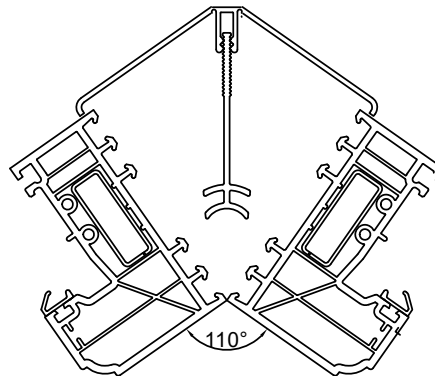
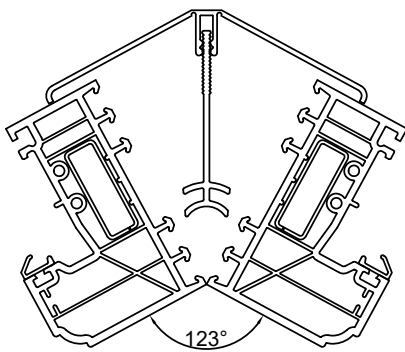


Most likely instances of Bow Windows being required without Variable Bay Poles are shown above

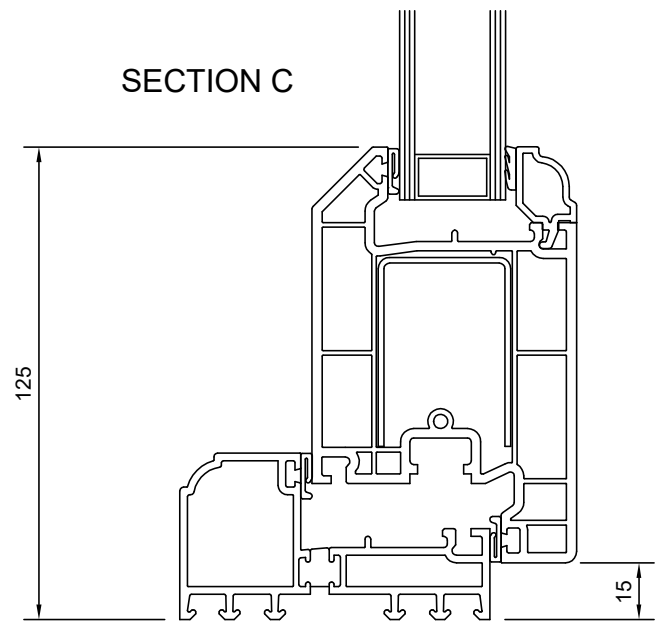
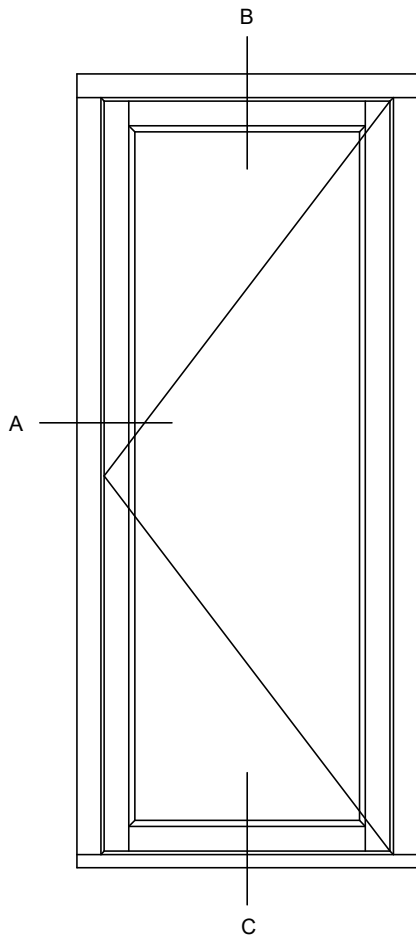
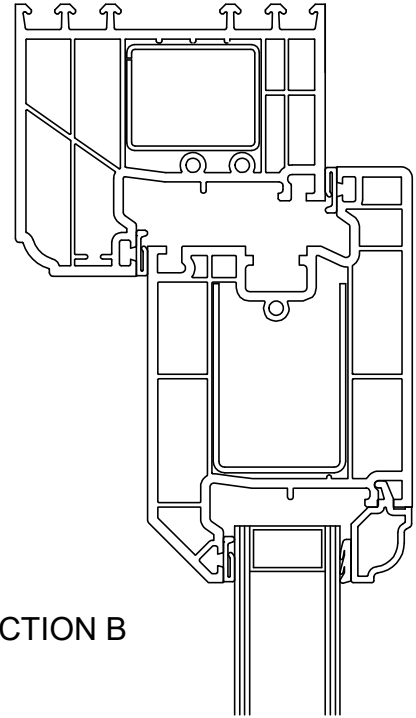
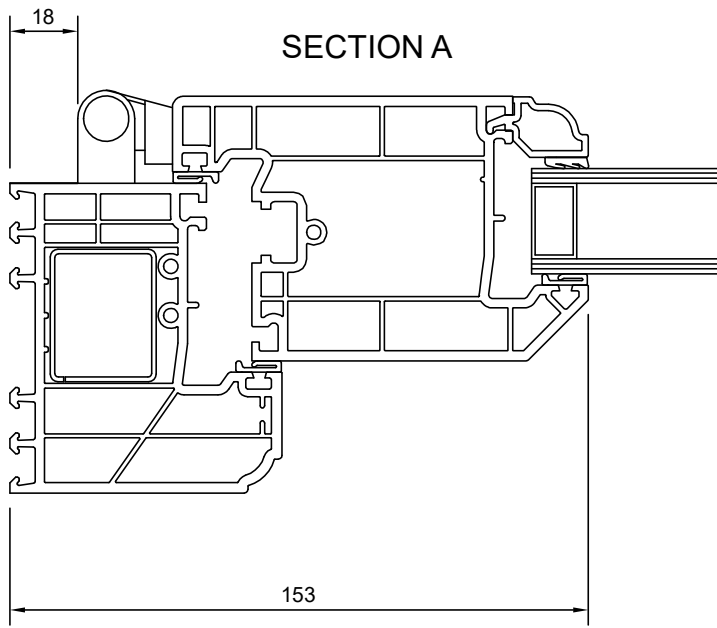
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P10167

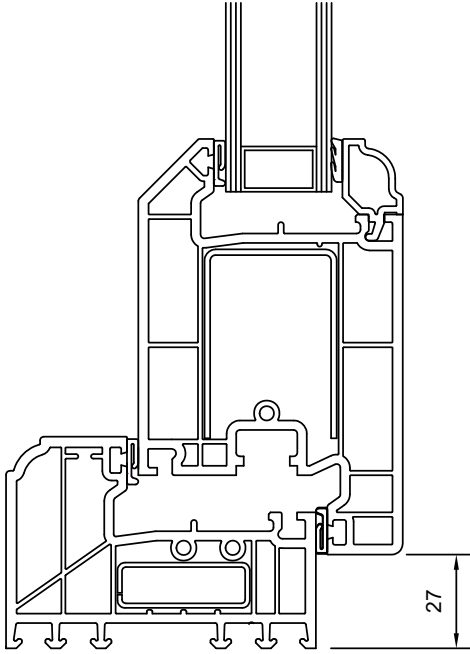


Part No.
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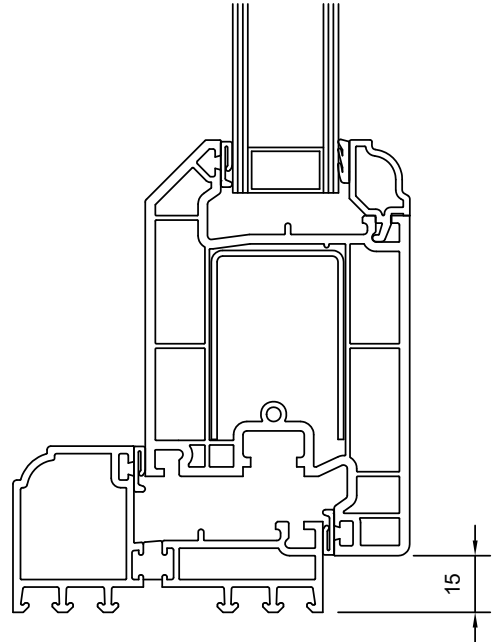


Slim Bow Coupler will probably be of no practical use with Bays that have angles narrower than 139°

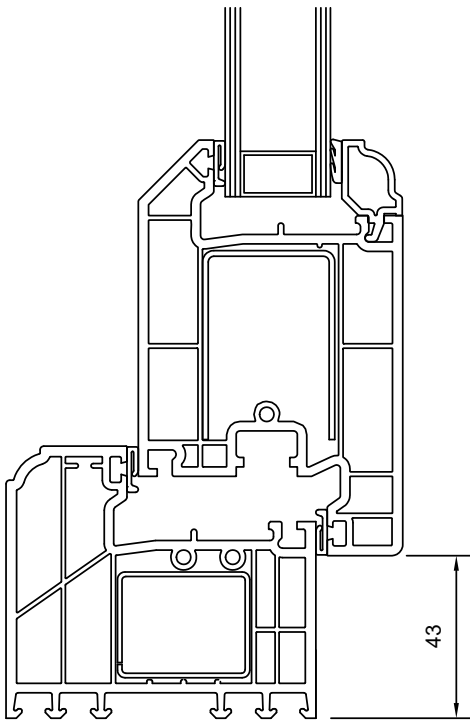




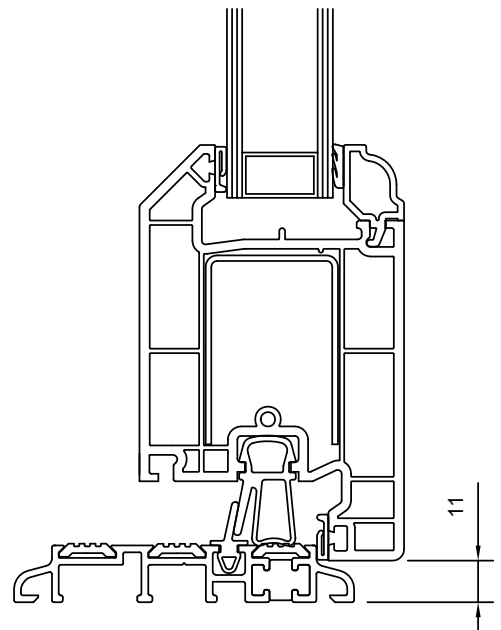
56mm PVC Threshold



44mm Aluminium Threshold

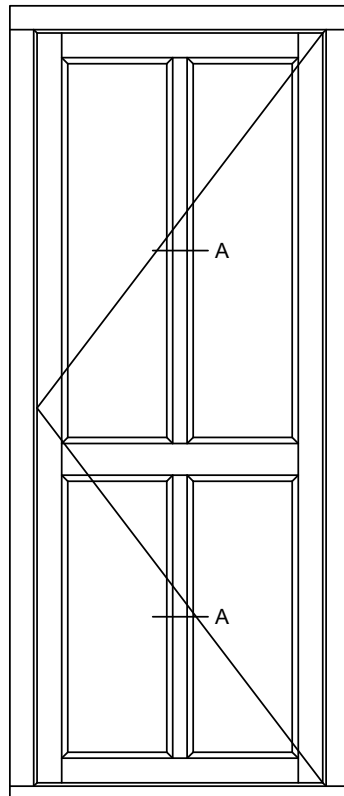
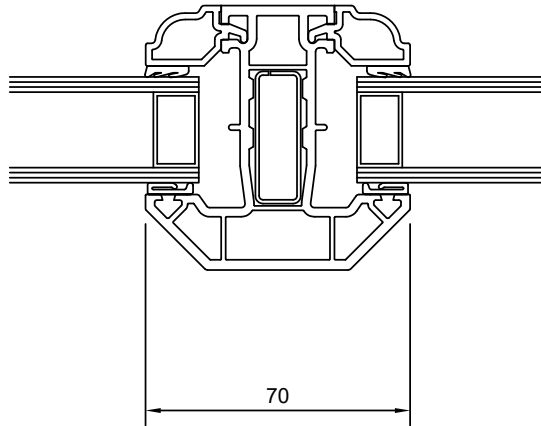


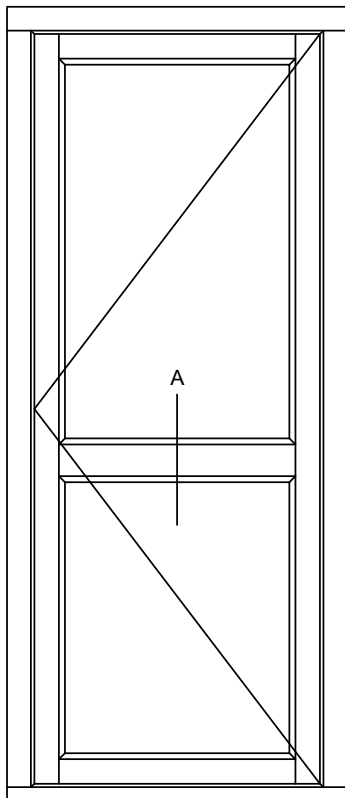
72mm PVC Threshold



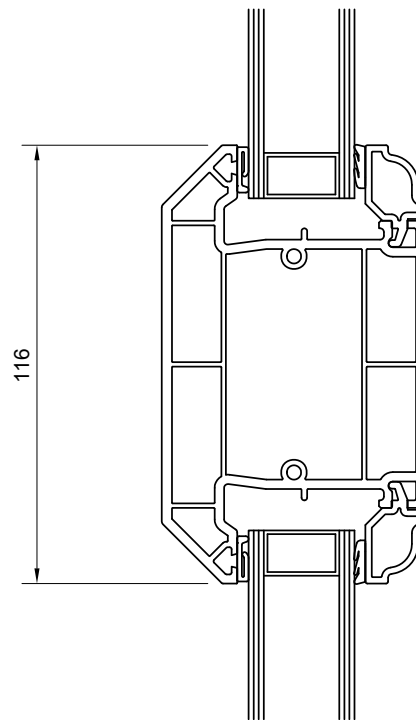
Part M Aluminium Threshold
Not available for use on French Doors
Cannot be guaranteed against air and water infiltration

SECTION A

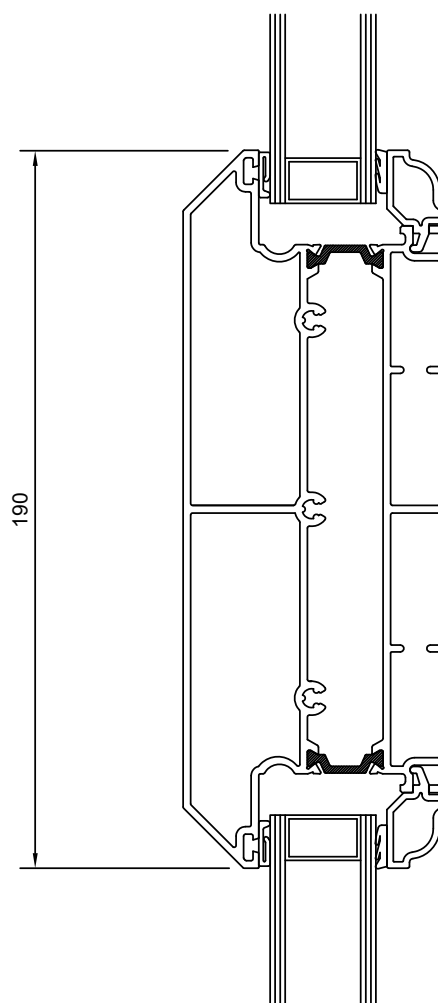
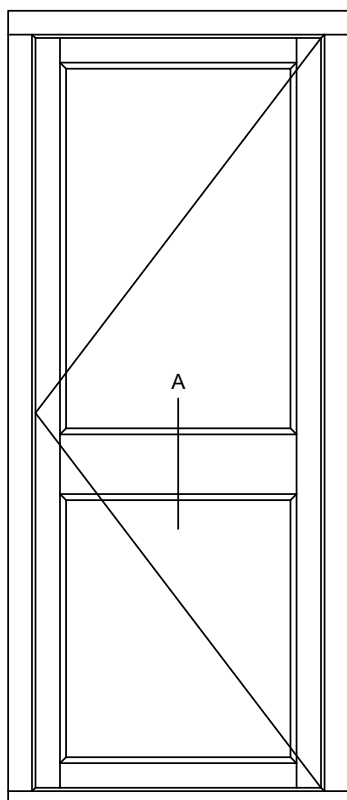




SECTION A

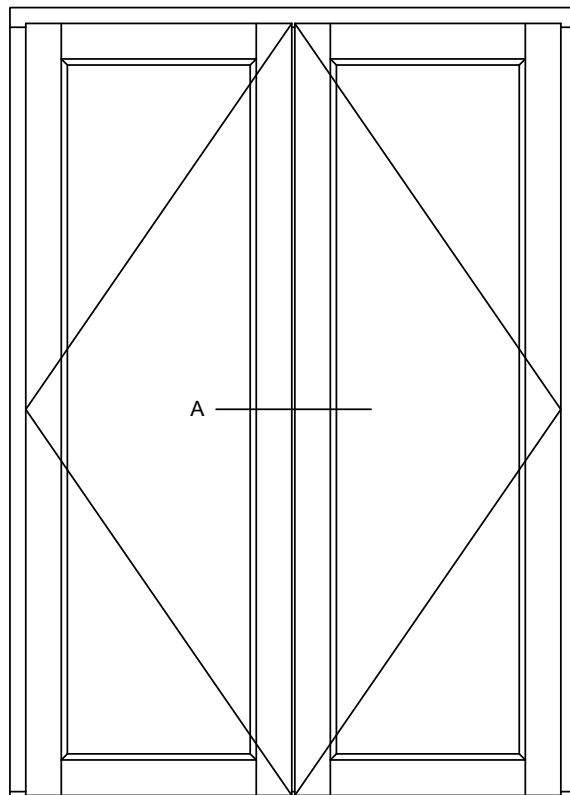
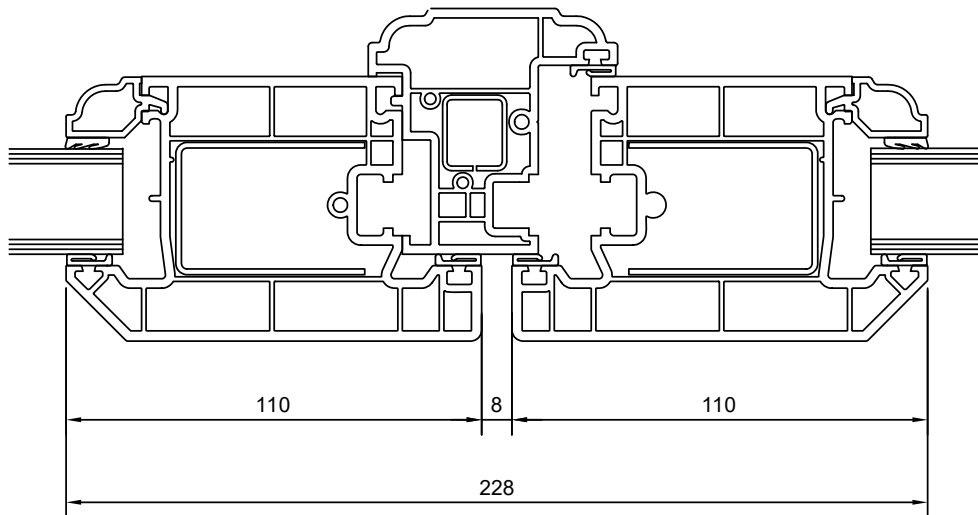


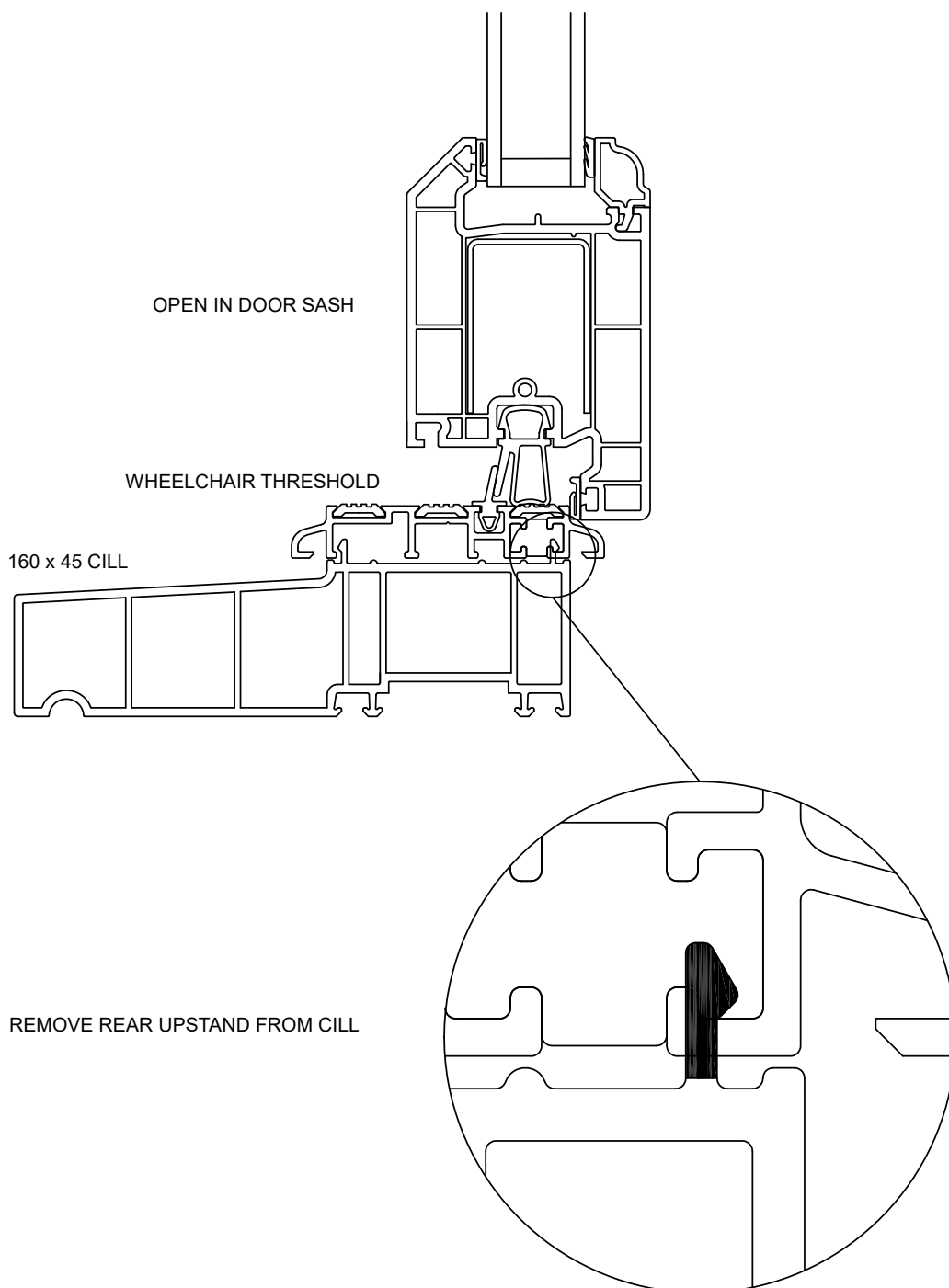
SECTION A



Please note.
This part is manufactured from thermally broken aluminium covered with our standard woodgrain foil.
Standard finish is white internally with very limited options for alternative internal foil colours.
The 190mm mid rail can be sprayed.

SECTION A





CALCULATION:

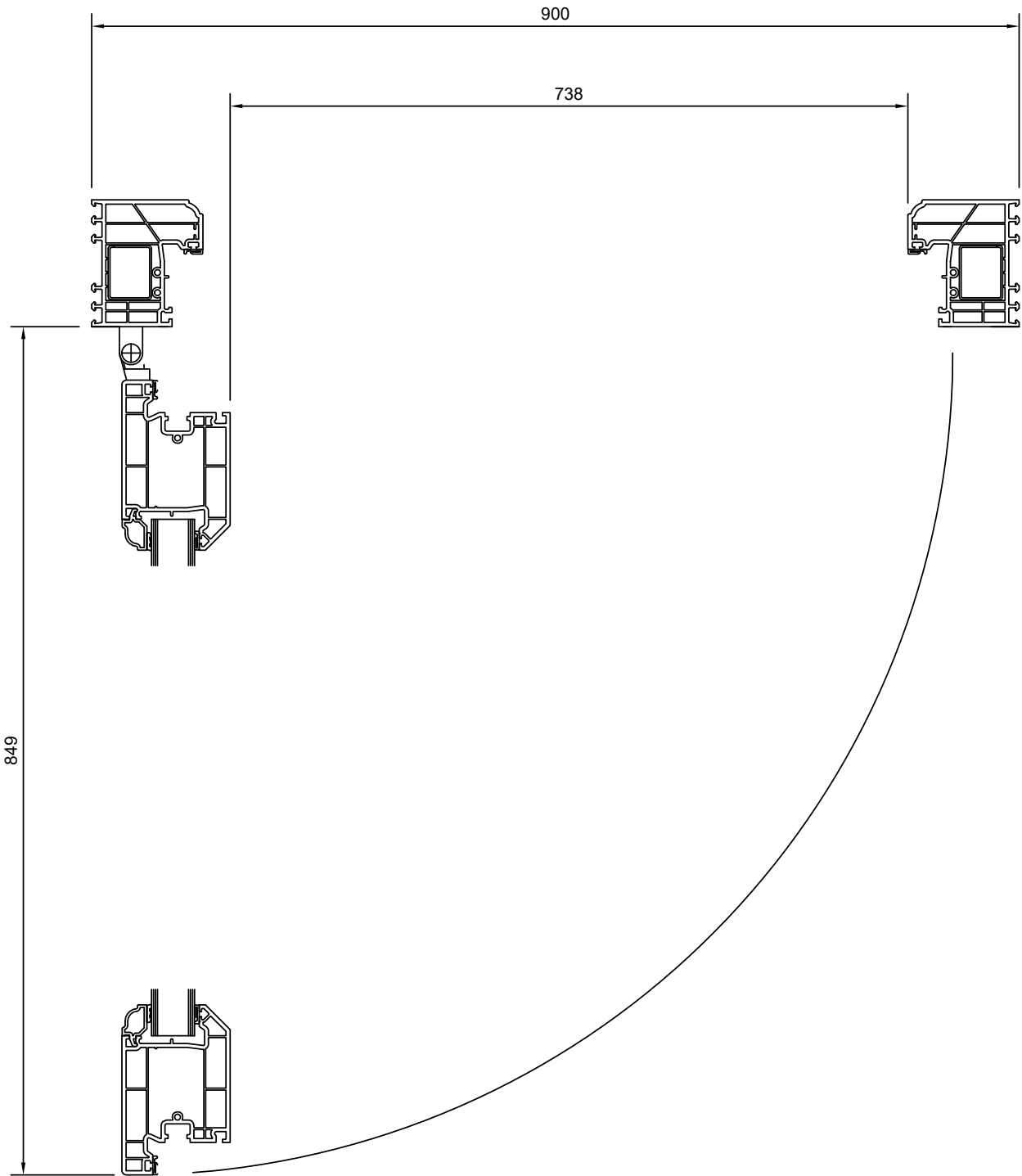
Overall Frame width (not including Frame Extenders) minus 51mm

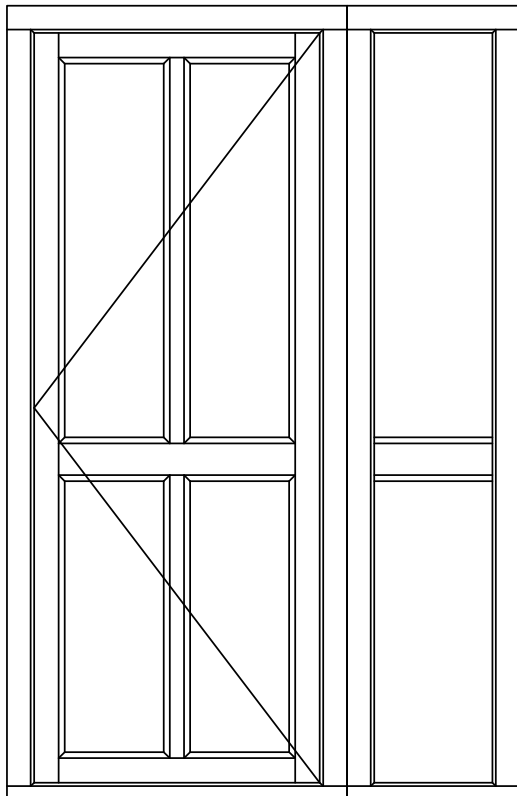
EXAMPLE:

Overall Frame Width of 900mm - 51mm = 849mm Door Swing

NOTE:

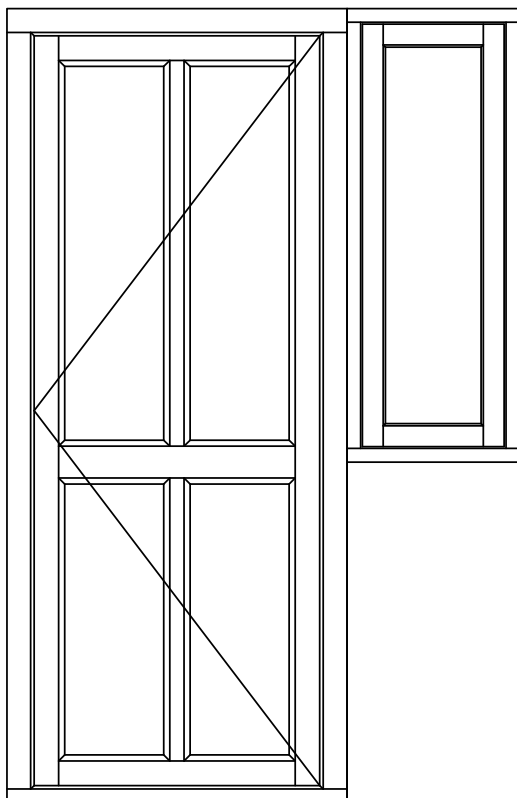
Part M of the Building Regulations requires a minimum clearance for a wheelchair, through a doorway of 775mm not including handle or weather bar, therefore, the minimum overall door width, not including frame extenders, should be 940mm





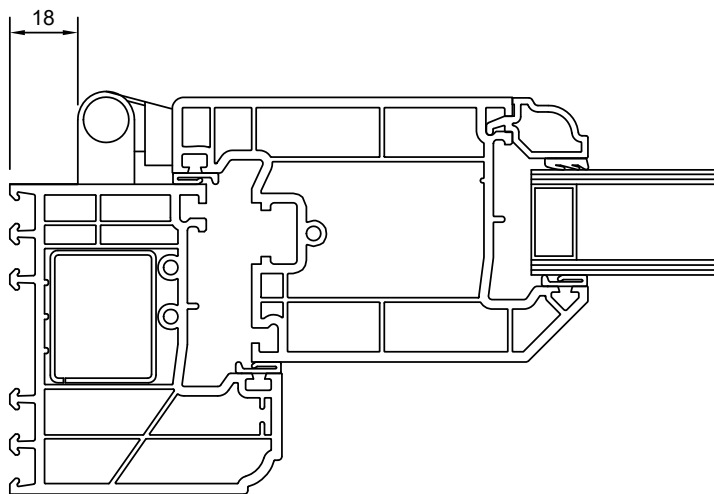
DOOR WITH FULL HEIGHT SIDE PANEL

20mm Coupler Only
Reinforced 72mm or 56mm Outer Frame adjacent to Door



DOOR WITH PARTIAL HEIGHT SIDE WINDOW

20mm or 2mm Coupler
If using 20mm Coupler:
Reinforced 72mm or 56mm Outer Frame adjacent to Door
If using 2mm Coupler:
Reinforced 72mm Outer Frame Only adjacent to Door



Top of Sash to
Centre of Hinge

160

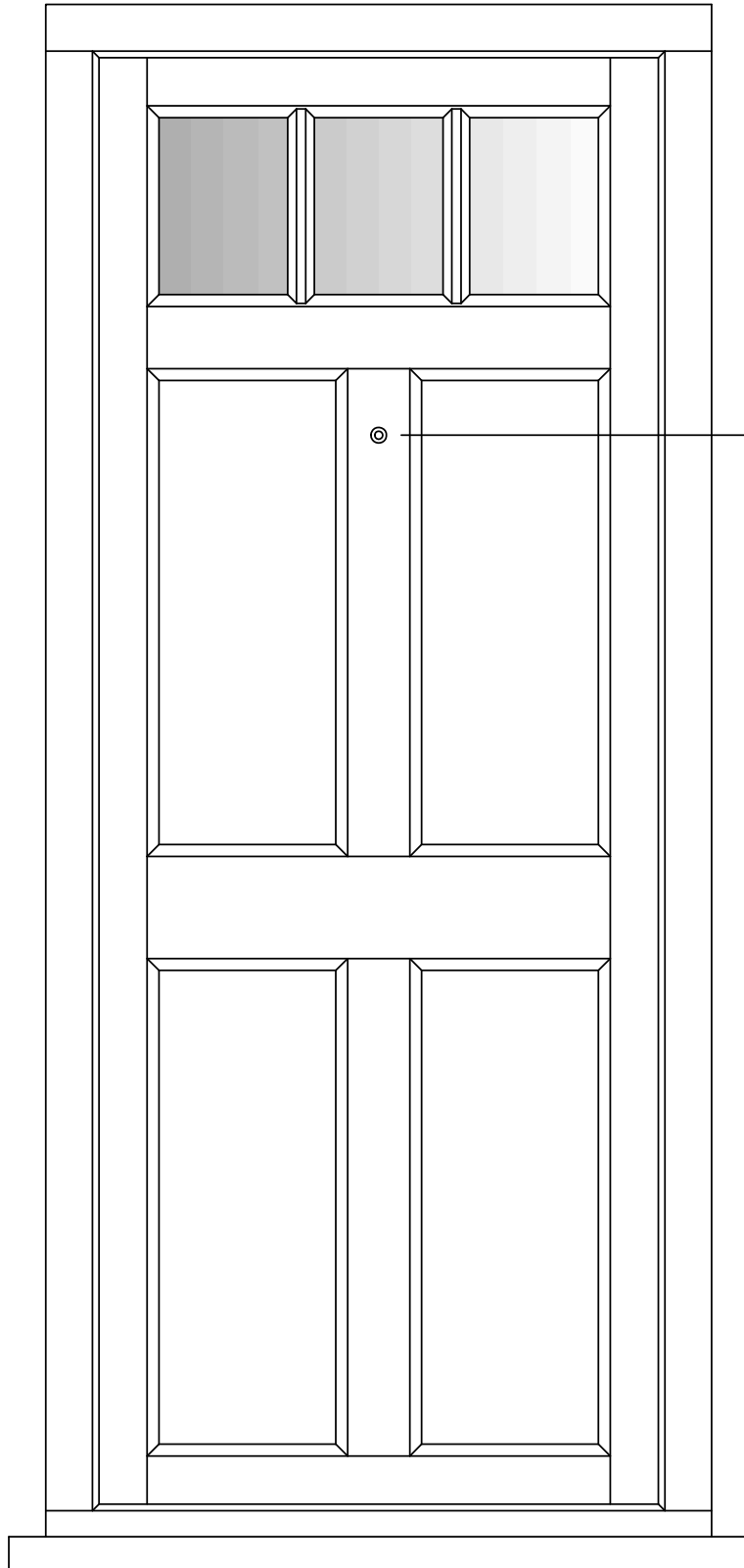
Hinge Body Height

100

Bottom of Sash to
Centre of Hinge

160

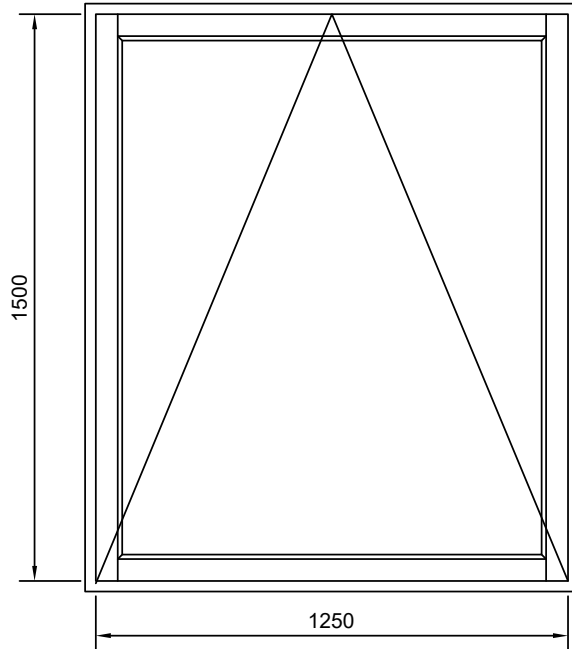
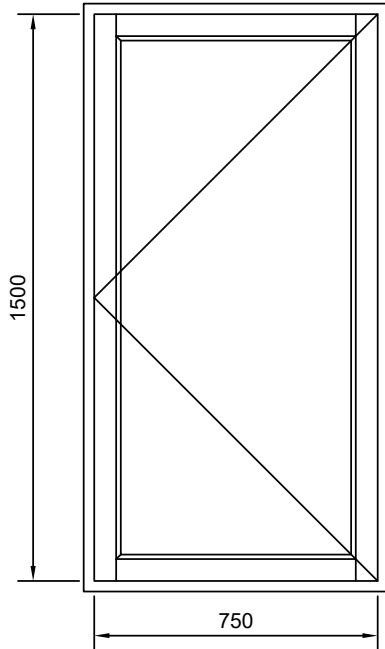
Bottom Hinges can be positioned further up to help clearance of large skirtings etc.



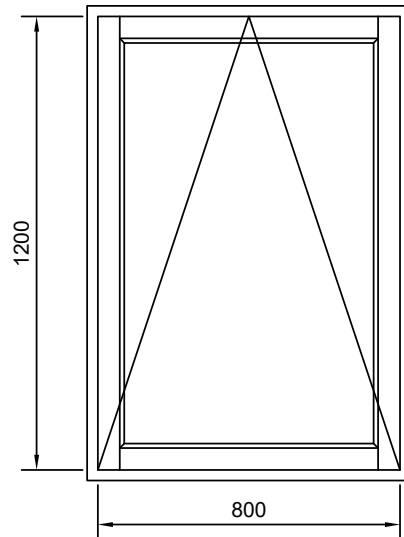
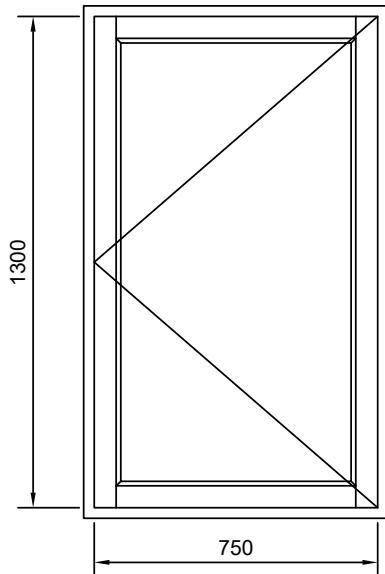
If a Spyhole is requested with an EDC door, a height from the underside of the door outer frame must be provided. Otherwise, the Spyhole will be supplied loose for positioning and fitting on site by the installer. To aid installation, reinforcing will be omitted from the vertical mullion section.

Spyhole Height

28mm Double Glazed - 4/20/4

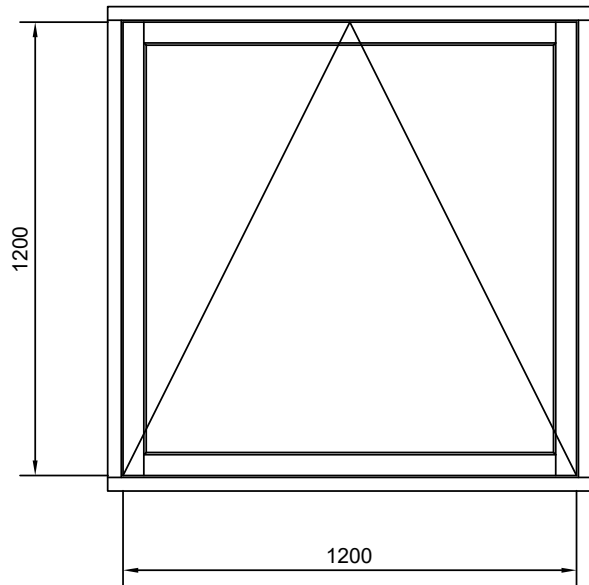
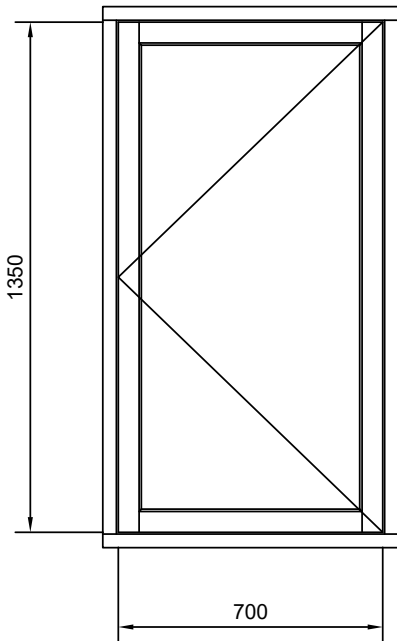


32mm Triple Glazed - 4/10/4/10/4
or
28mm Double Glazed - 6/16/6

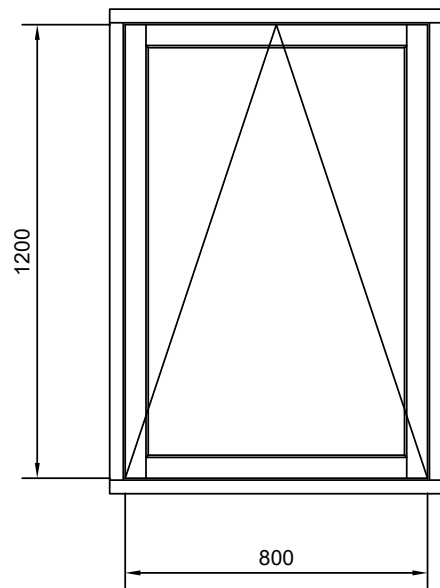
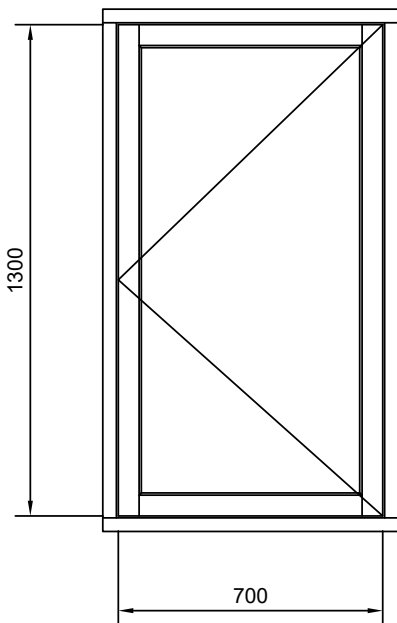


Or 1200 width x 800 height

28mm Double Glazed - 4/20/4

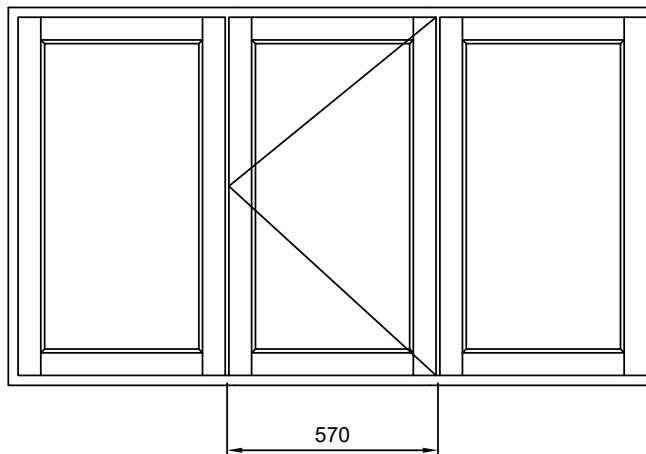
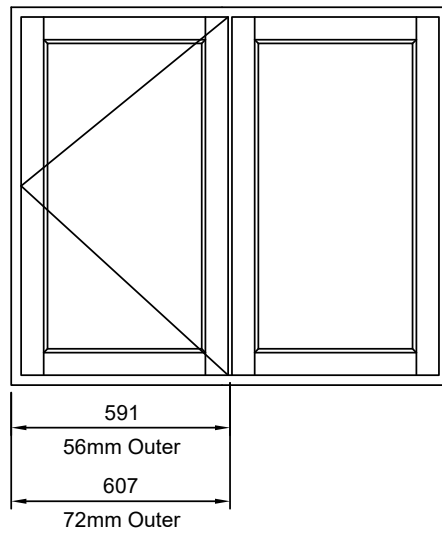
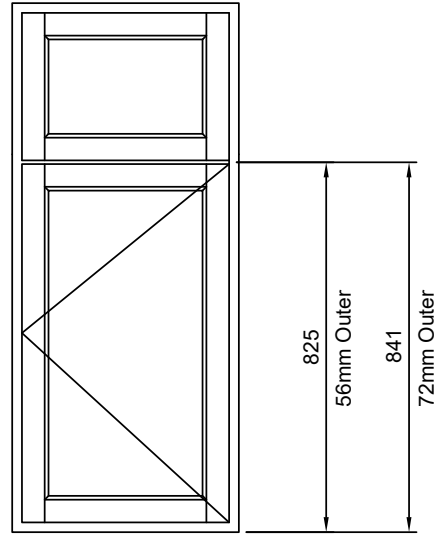
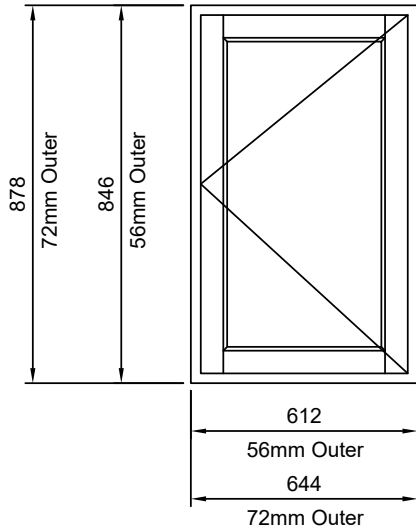


32mm Triple Glazed - 4/10/4/10/4
or
28mm Double Glazed - 6/16/6

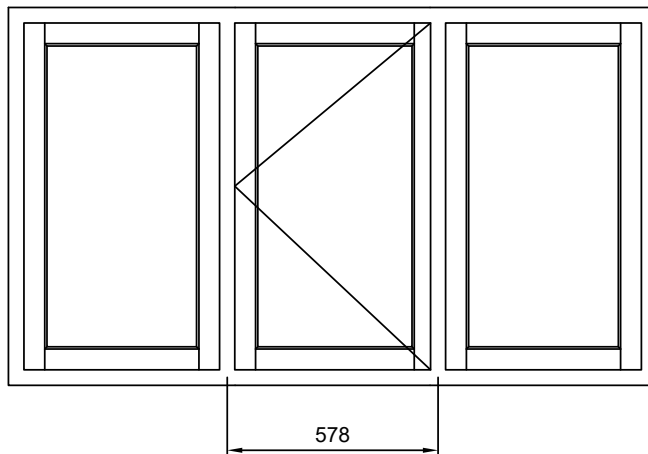
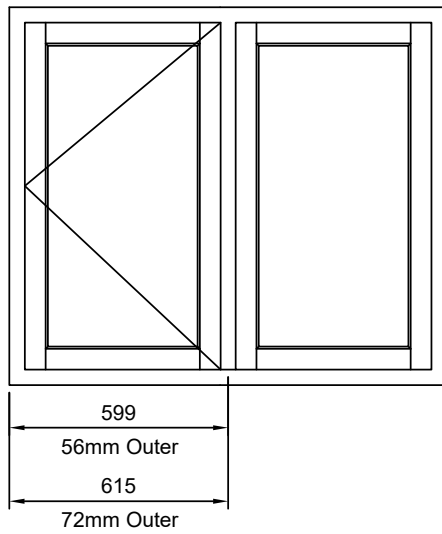
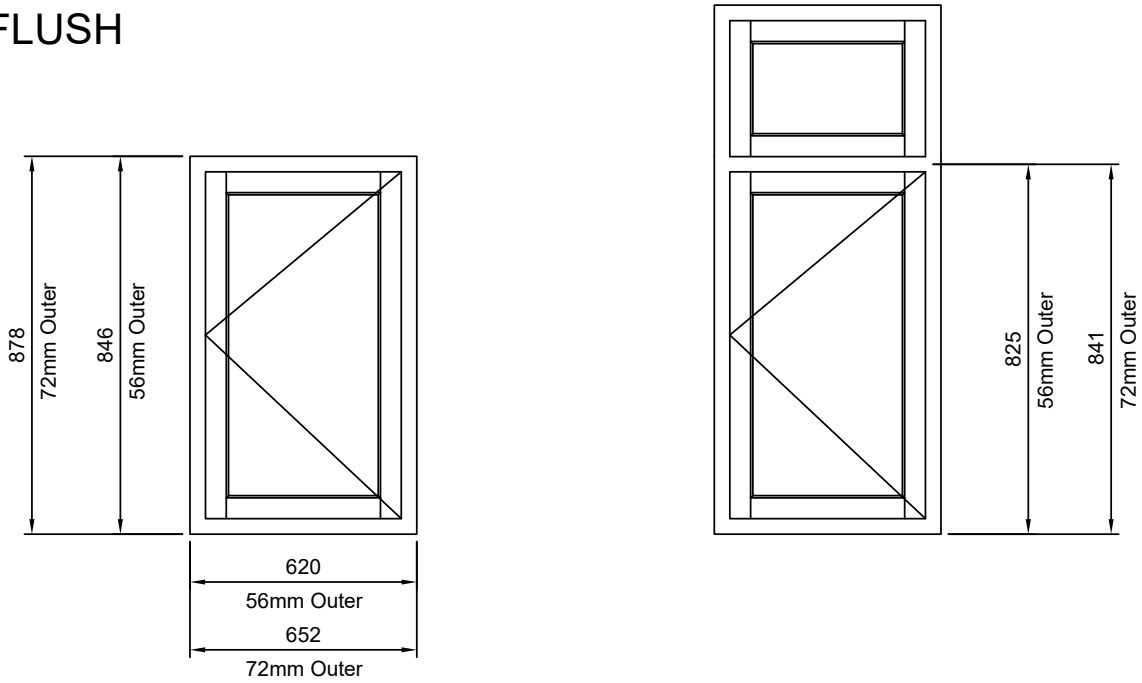


Or 1200 width x 800 height

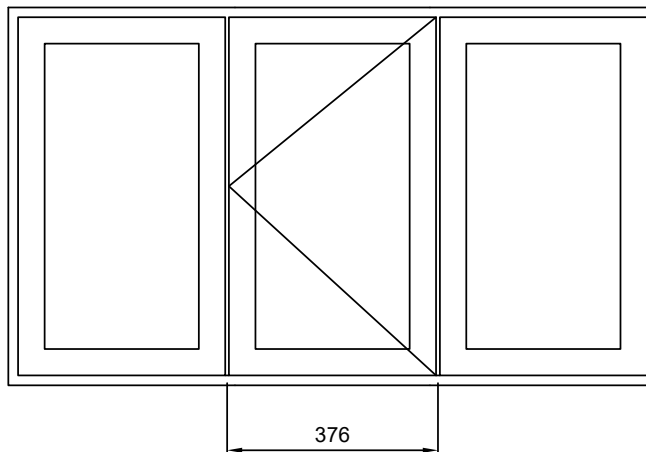
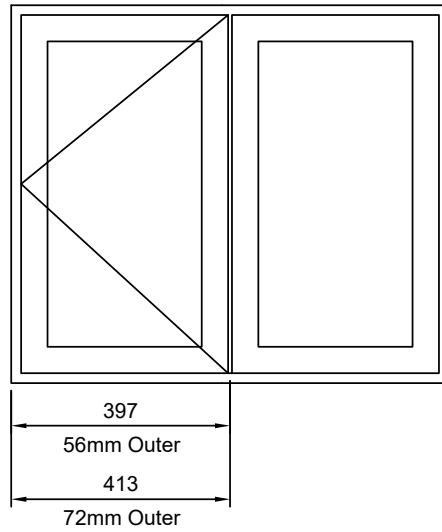
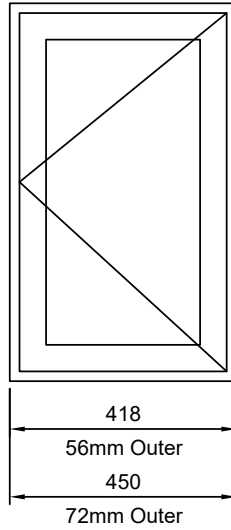
STORM 1 & 2



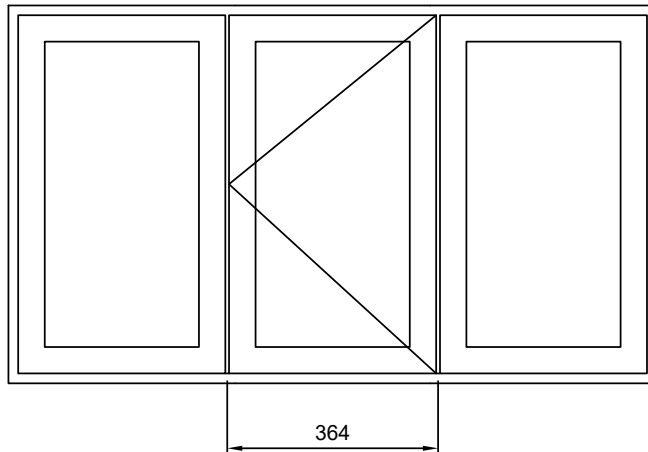
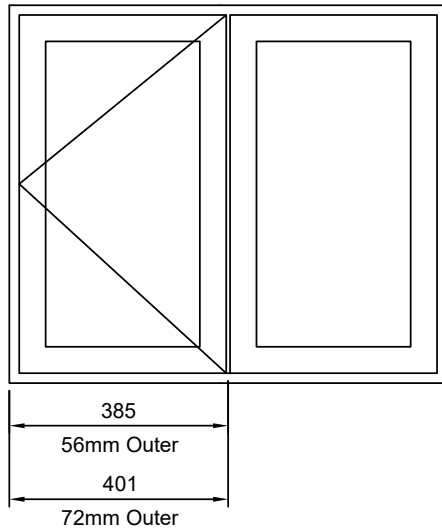
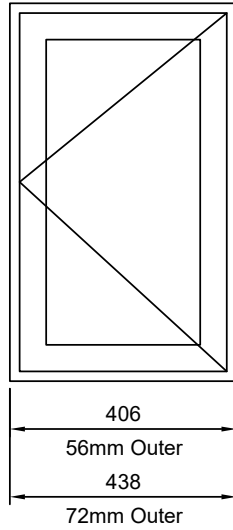
FLUSH



STORM 1 & 2



FLUSH



STORM SASH - P90208 - Sizes shown in brackets will be as displayed in Window Designer

WIDTH: 331mm (336mm)

HEIGHT: 331mm (336mm)

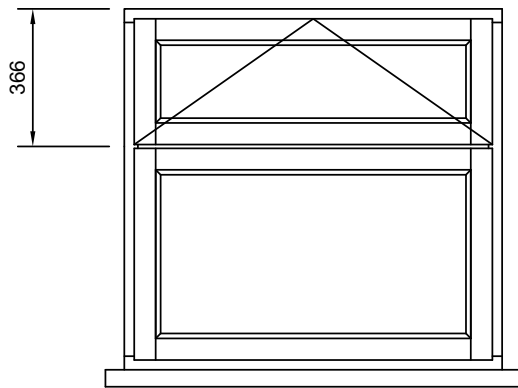
FLUSH SASH - P10527 - Sizes shown in brackets will be as displayed in Window Designer

WIDTH: 324mm (329mm)

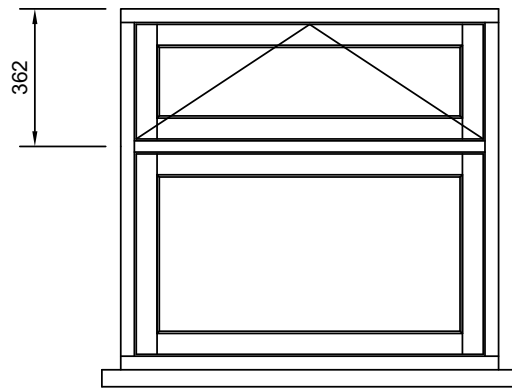
HEIGHT: 301mm (306mm)

MINIMUM TRANSOM DROPS FOR 'TIMBERLOOK' SASHES

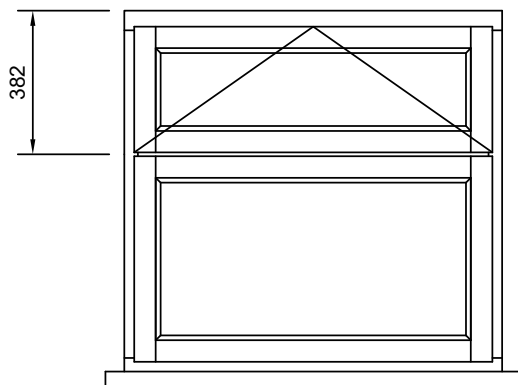
Storm 2 - 56mm Head



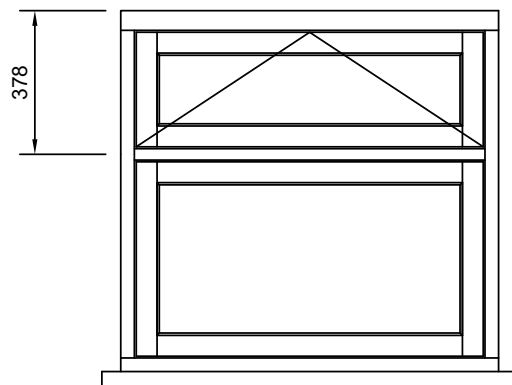
Flush - 56mm Head



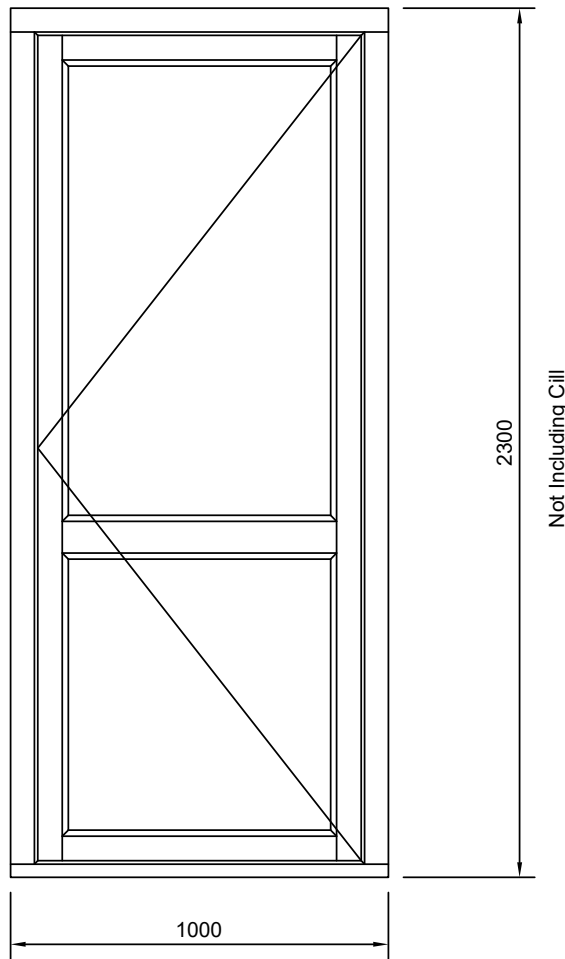
Storm 2 - 72mm Head



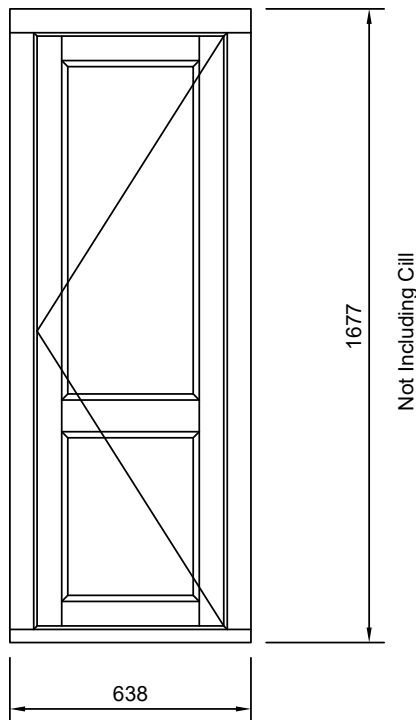
Flush - 72mm Head



MAXIMUM SIZES

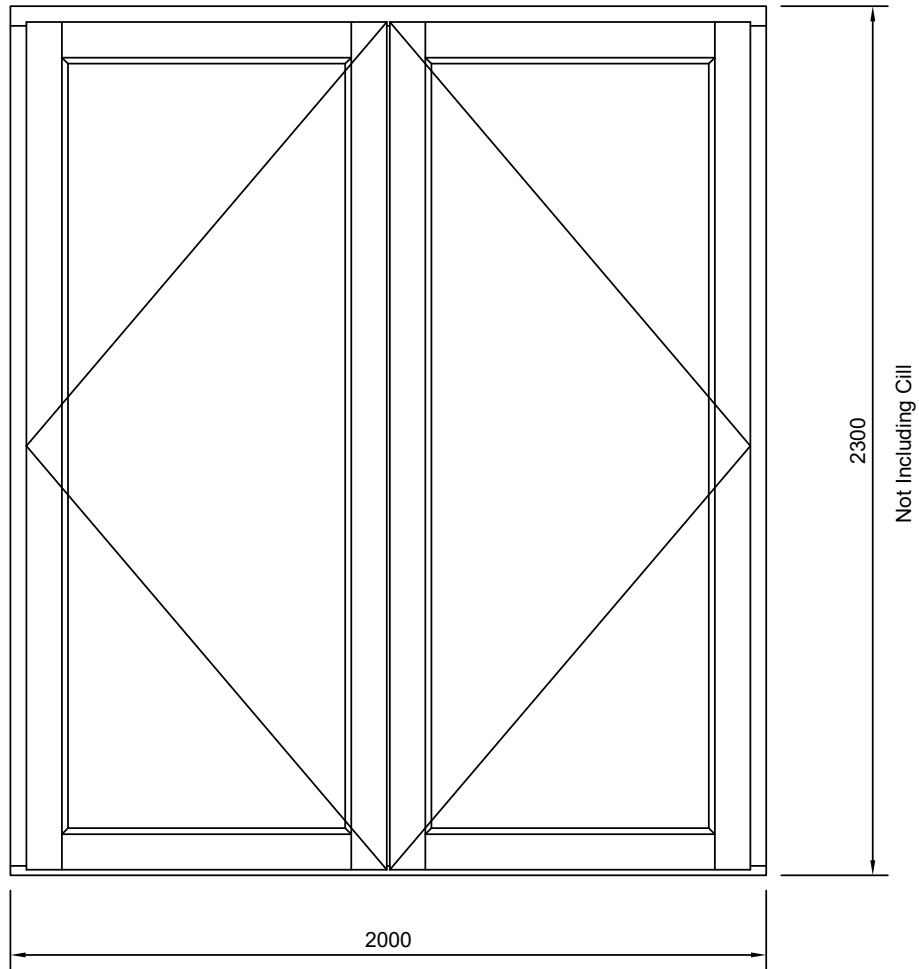


MINIMUM SIZES

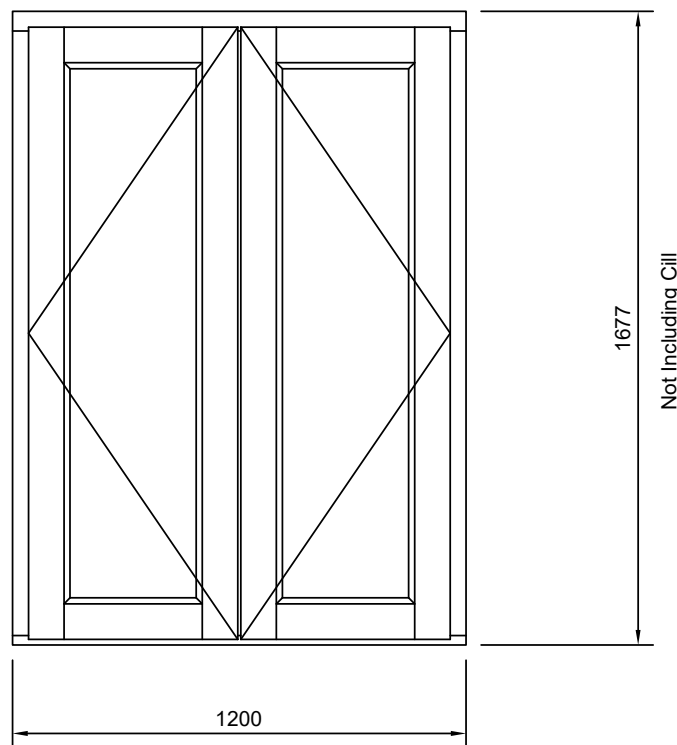


DIMENSIONS SHOWN ASSUME THE USE OF 72mm HEADS & SIDES AND 44mm THRESHOLDS
DIMENSIONS SHOWN ARE FOR DOORS FITTED WITH STANDARD FULLEX XL LOCKS

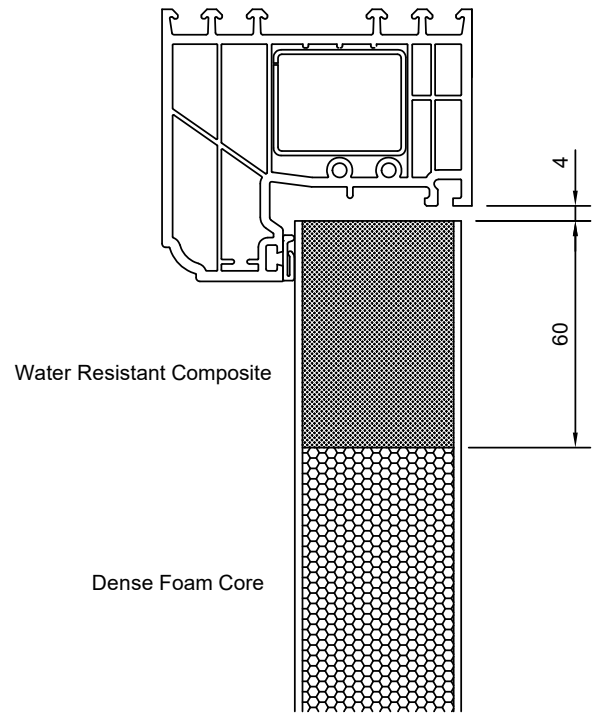
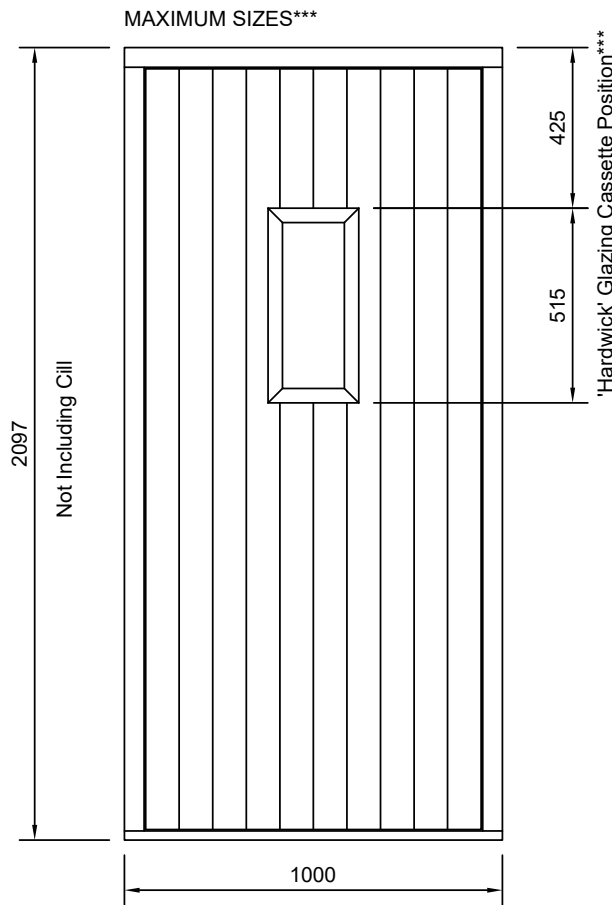
MAXIMUM SIZES



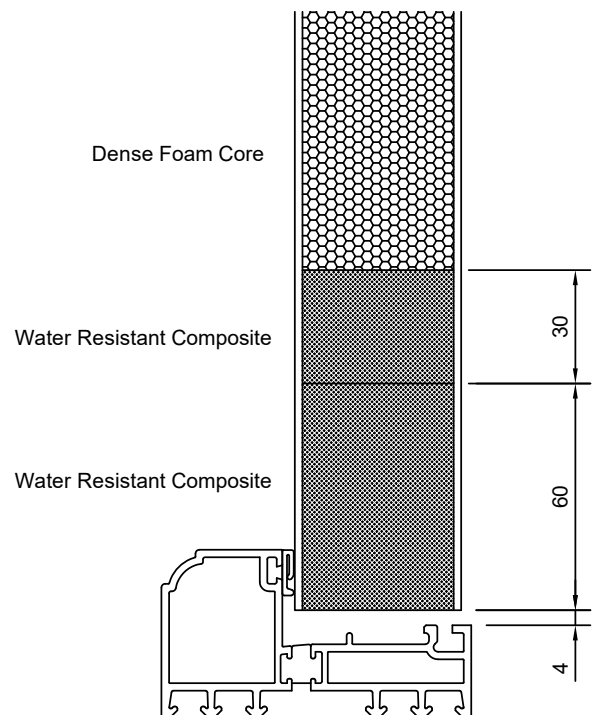
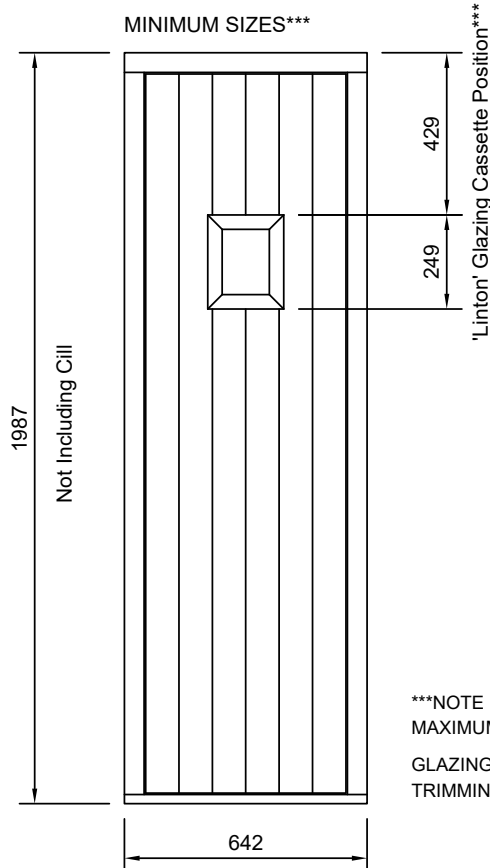
MINIMUM SIZES



DIMENSIONS SHOWN ASSUME THE USE OF 72mm HEADS & SIDES AND 44mm THRESHOLDS



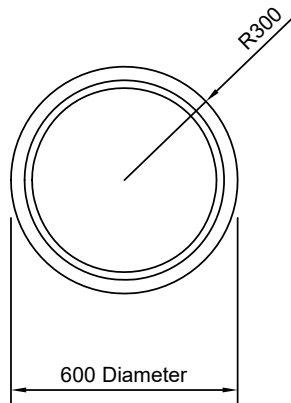
Construction



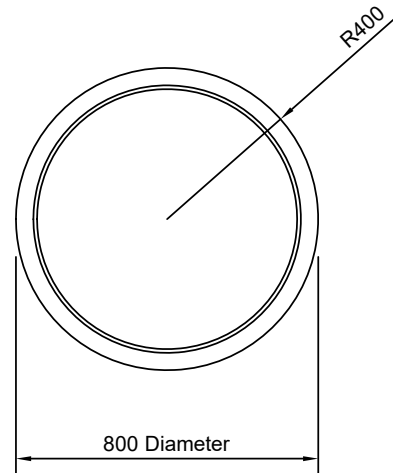
***NOTE
MAXIMUM AND MINIMUM SIZES SHOWN ASSUME 72mm HEAD & SIDES AND 44mm THRESHOLD
GLAZING CASSETTE POSITIONING MAY VARY DEPENDENT UPON REQUIRED
TRIMMING OF COMPOSITE DOOR SLAB AT TOP

MINIMUM DIMENSIONS USING 56mm OUTER FRAME

STORM 1



STORM 2



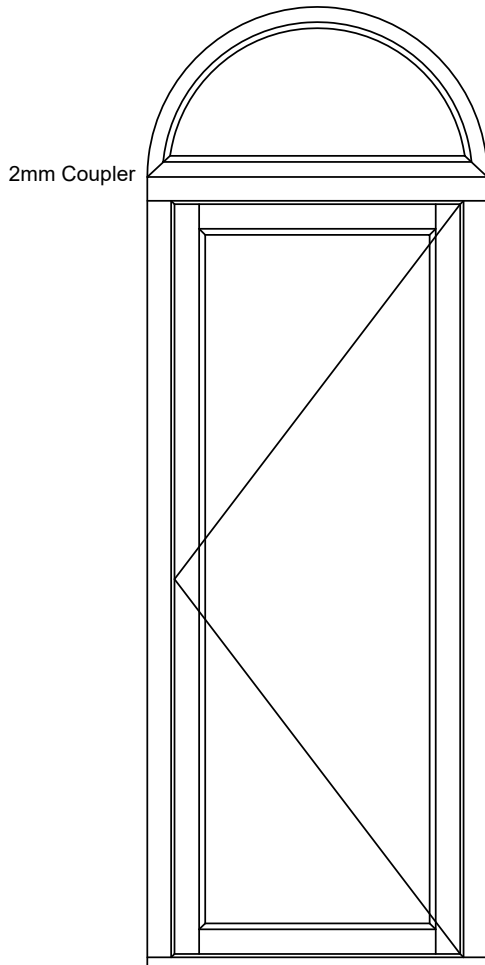
Please Note.

Storm Casement, Door Sash and Flush Casement profiles cannot be curved.

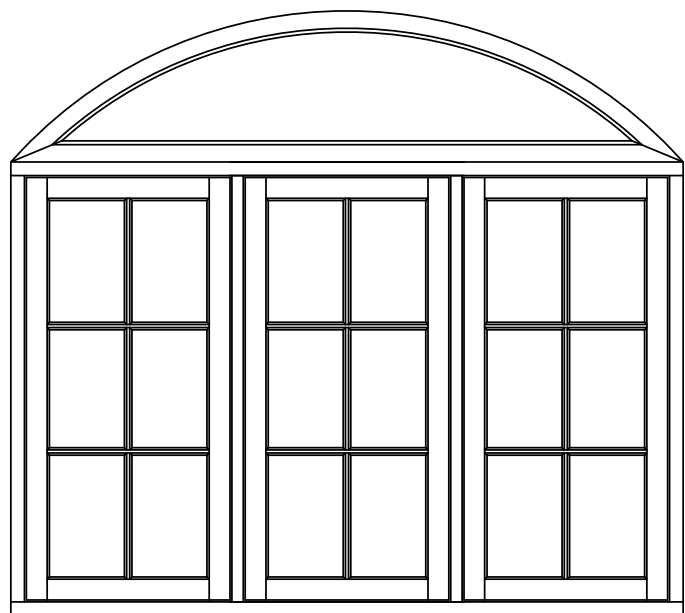
If arched sections are required above windows or doors, these will be manufactured as separate, direct glazed, internally beaded frames and coupled to the item as shown below.

Window frames with curved sections within them will always be conventionally welded.

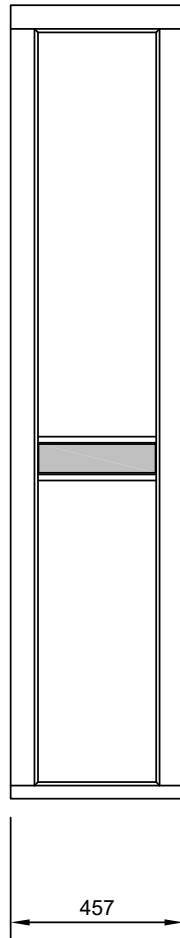
Semi Circular Toplight Over Door



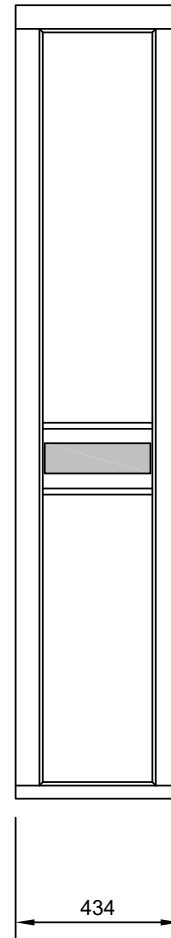
Constant Radius Arch Over Window



Fab 'n' Fix Nu Mail Letterplate
in 116mm or 190mm Midrail



Wrought Iron or Regency Flush
Letterplate in 190mm Midrail
only



The above dimensions are based on the use of 72mm Outer frames

If using 72mm Outer Frame to one side and 56mm Outer Frame to the other then:

Minimum Side Panel Width for Fab 'n' Fix Nu Mail Letterplate = 441mm

Minimum Side Panel Width for Wrought Iron or Regency Flush Letterplate = 418mm

If using 56mm Outer Frame to both sides then:

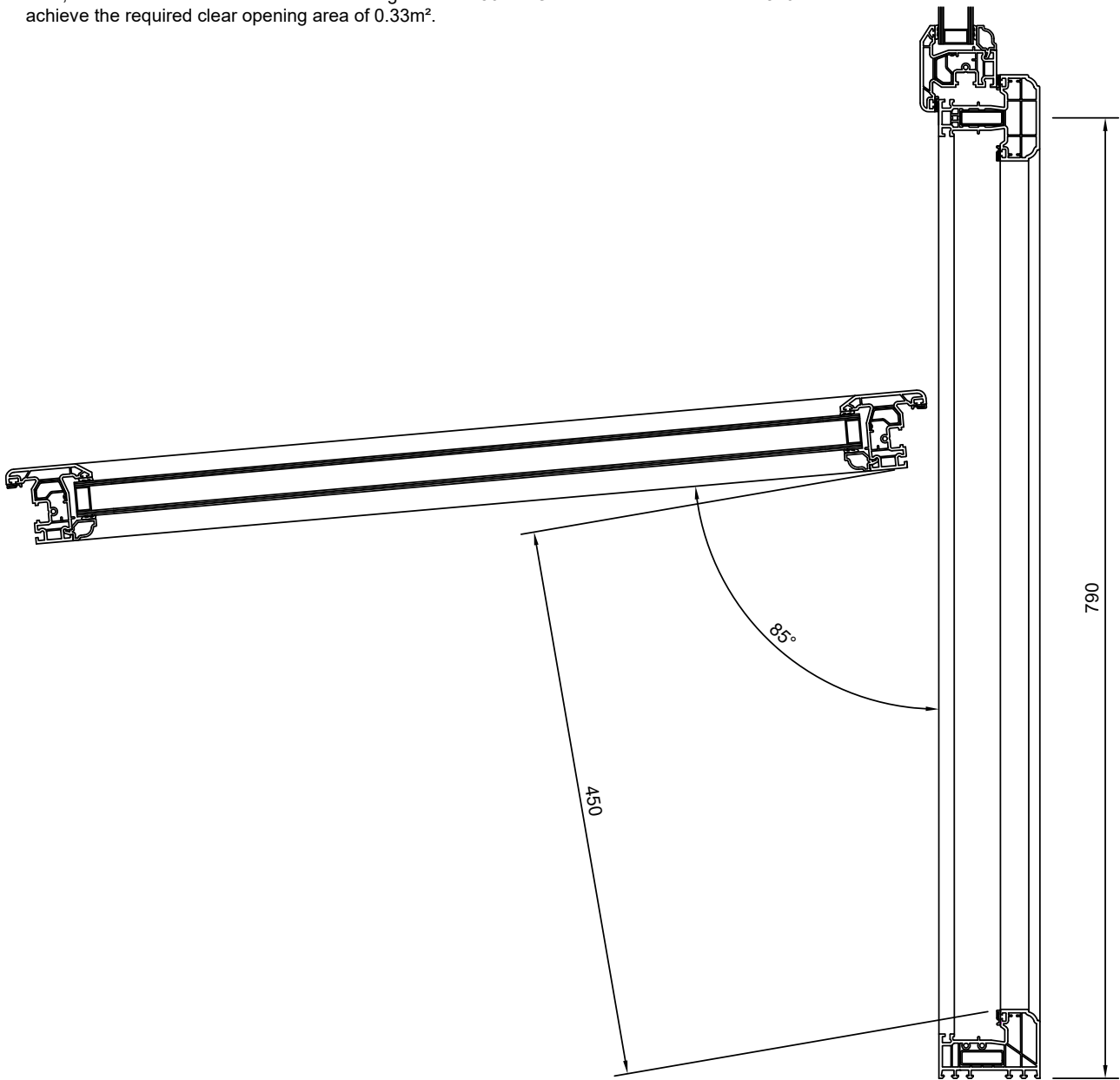
Minimum Side Panel Width for Fab 'n' Fix Nu Mail Letterplate = 425mm

Minimum Side Panel Width for Wrought Iron or Regency Flush Letterplate = 402mm

If required to meet Fire Egress Regulations with a Top Hung Sash, this can only be achieved with the use of a standard 16" Side Hung Hinge used as a Top Hung Hinge which will open to 85°

A minimum height of 790mm from the underside of the Outer Frame to the centre of a Transom as shown is required or, 816mm if Outer Frame to Outer Frame.

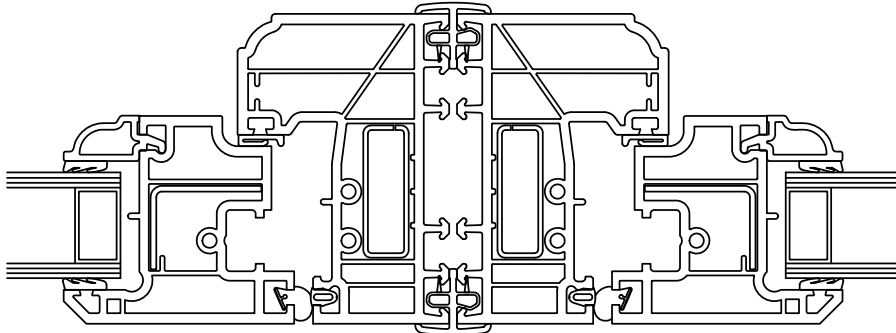
Also, the minimum width of the Window using standard 56mm Outer Frame will need to be 846mm to achieve the required clear opening area of 0.33m².



2mm COUPLING - Example Shown: Flush Casement in 56mm Outer Frame to Flush Casement in 56mm Outer Frame

2no. Couplers Required per frame join

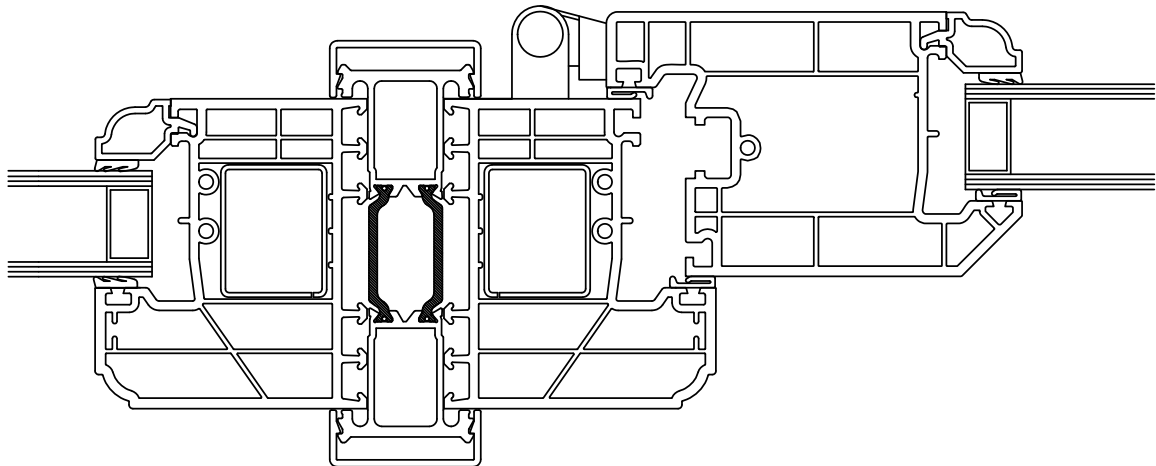
116 217 Storm 2 2mm Coupler



116 217 Storm 2 2mm Coupler

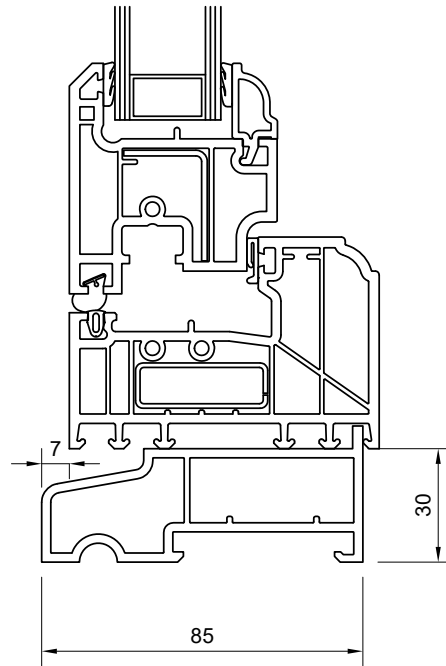
20mm HEAVY DUTY COUPLING - Example Shown: Direct Glazed 72mm Outer Frame to 72mm Door Outer Frame

For Vertical use only - Maximum length: 2500mm

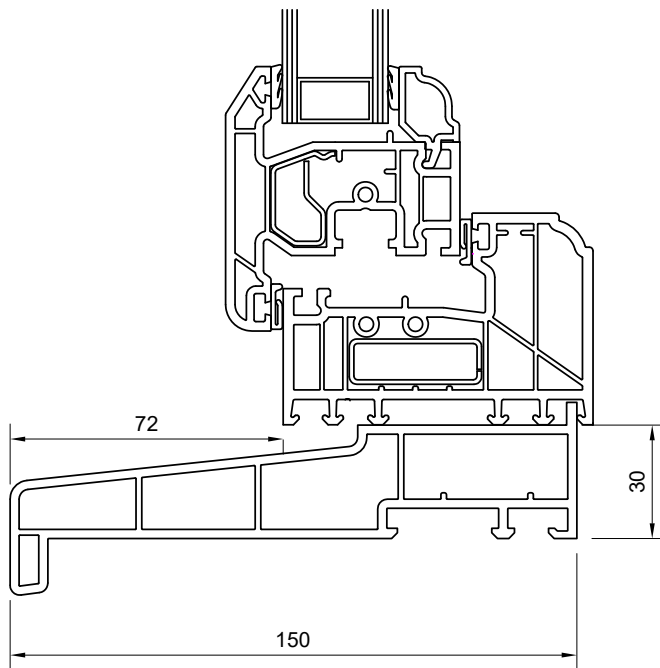


A00434 20mm Storm 2 Heavy Duty Coupler

P10323 Plain Covers External & Internal



P90039 85mm Cill



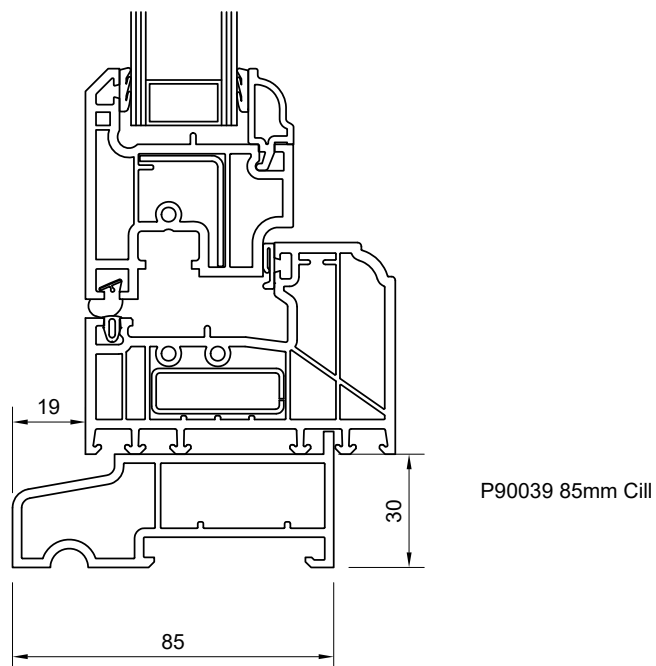
P90042 150mm Cill

The Storm 2 Outer Frame Profile has been designed to be used in conjunction with the 160mm x 45mm and 200mm x 45mm Timberlook Cills.

If a job requires the use of the Storm 1 30mm Cill sections, please see above for the positioning of the Cill relative to the Outer Frame.

If the Cill is positioned with its upstand behind the Outer Frame, the front edge of the Outer Frame will not be supported by the flat bed of the Cill.

Welded Bay Cill sizes are manually adjusted to allow the 30mm Cill to sit in the same position as shown above.



The Storm 2 Outer Frame Profile has been designed to be used in conjunction with the 160mm x 45mm and 200mm x 45mm Timberlook Cills.

If a job requires the use of the Storm 1 30mm Cill sections, please see above for the positioning of the Cill relative to the Outer Frame.

If the Cill is positioned with its upstand behind the Outer Frame, the front edge of the Outer Frame will not be supported by the flat bed of the Cill.

Welded Bay Cill sizes are manually adjusted to allow the 30mm Cill to sit in the same position as shown above.

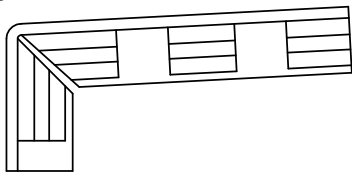
The 85mm Cill can also be positioned further forward as shown above without compromising the Outer Frame Concealed Drainage.

When a 160mm x 45mm or 200 x 45mm Cill requires a straight (180 degree) join, a section of 2mm coupler is fabricated by cutting and bending it as shown in the illustration.

Portions of the 2mm Coupler are removed to allow clearance of the coupler round the internal ribs of the Cill.

An additional section of 2mm Coupler is fitted to the back edge of the cill to conceal the join.

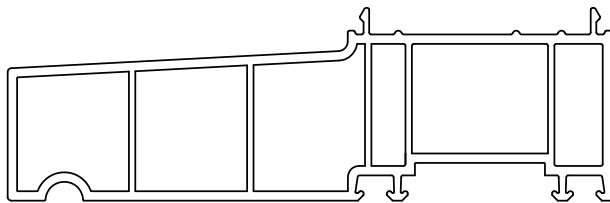
Section mitred then bent to form front edge



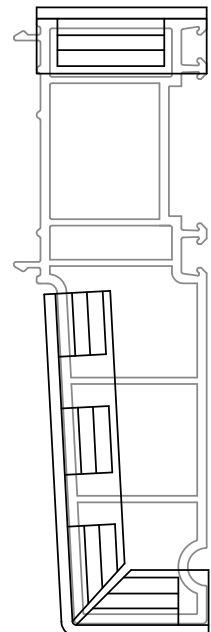
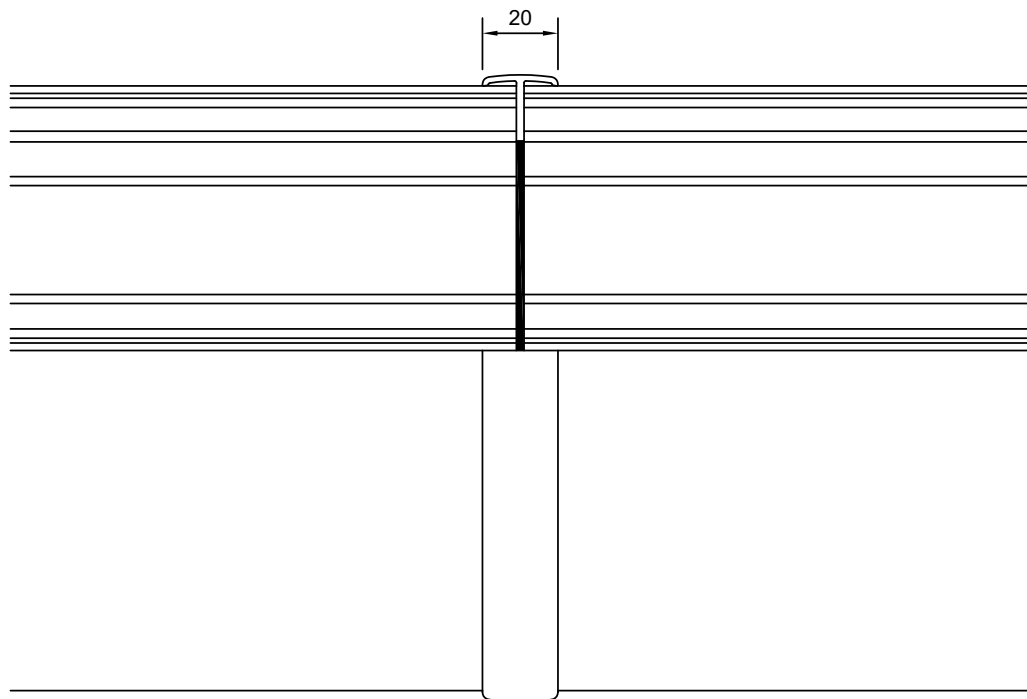
Standard 2mm Coupler section



Shaded portions of 2mm Coupler removed where shown, to avoid internal ribs of Cill

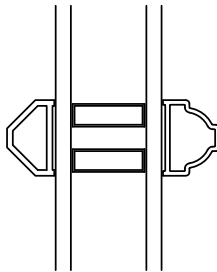


Additional section of 2mm Coupler required to back edge of Cill

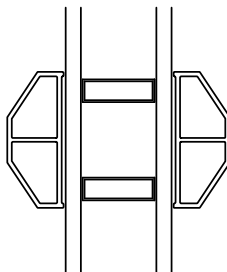
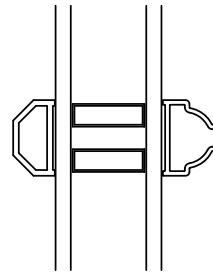


STORM & EDC DOORS

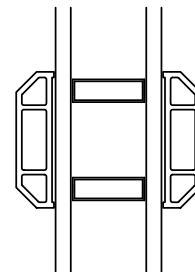
FLUSH CASEMENT



20mm PUTTY / OVOLO



36mm GEORGIAN BAR



P10191
20mm Georgian Bar
External - Putty Line - Storm



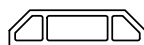
P10193
20mm Georgian Bar
External - Putty Line - Flush



P90123
20mm Georgian Bar
Internal - Ovolo - Storm & Flush



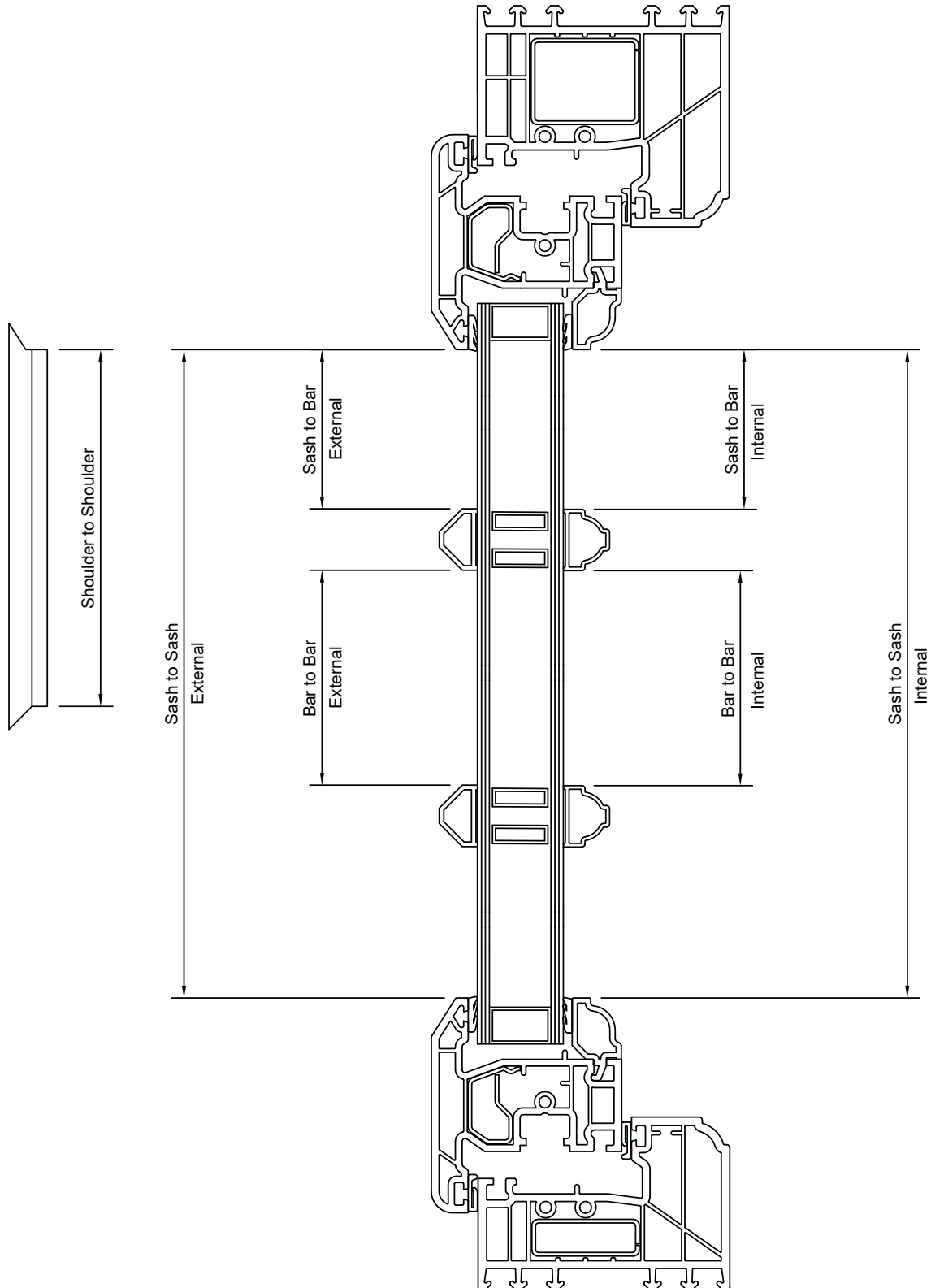
EV03
36mm Georgian Bar
External & Internal - Storm

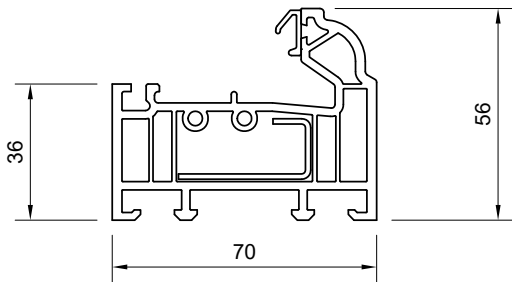


709021
36mm Georgian Bar
External & Internal - Flush

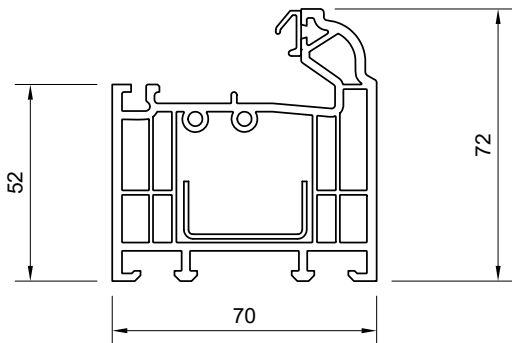
When ordering replacement Georgian bars for existing windows the following naming convention as shown on the example Storm 2 window below must be followed to avoid confusion and to ensure that the correct Georgian bar is supplied to the right length and with the correct end milling. These measurements are what Evolution call 'Shoulder to Shoulder' sizes.

State whether the window is Storm or Flush Casement or Storm Door and what width of Georgian bar is required, either 20mm or 36mm.

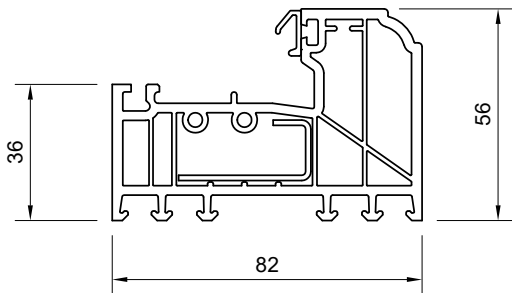




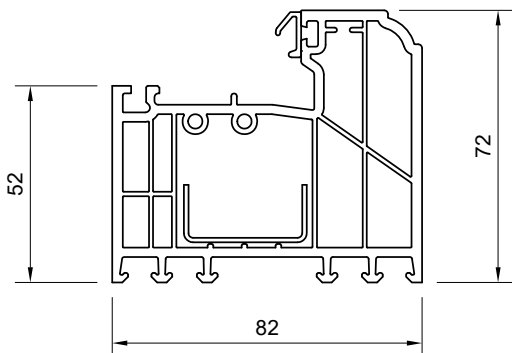
P10531 Storm 1 56mm Outerframe
AE1835GS/3 Reinforcing



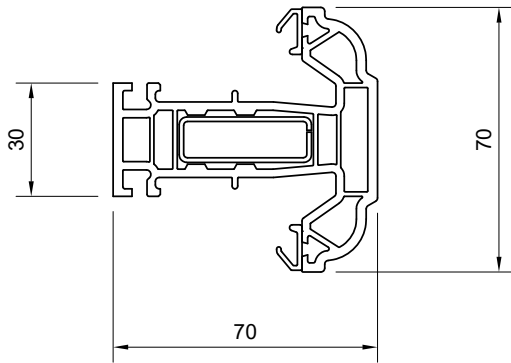
P10532 Storm 1 72mm Outerframe
S41101 Reinforcing



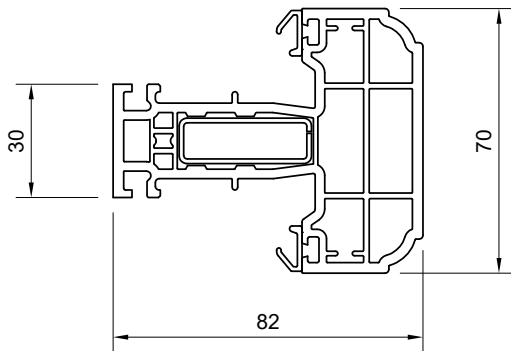
P90201 Storm 2 56mm Outerframe
AE1835GS/3 Reinforcing



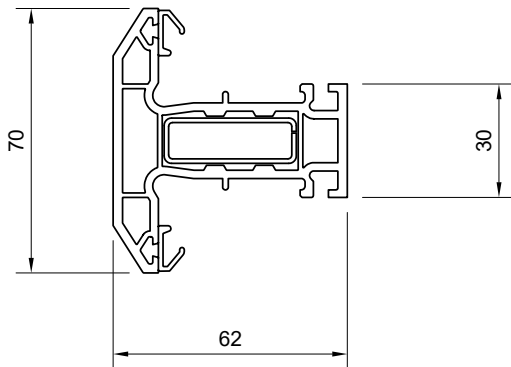
P90202 Storm 2 72mm Outerframe
S41101 Reinforcing



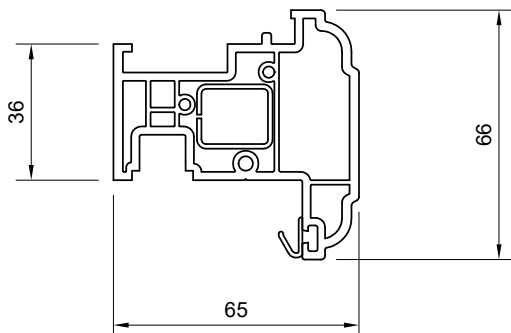
P10533 Storm 1 70mm Transom / Mullion
S00187 Reinforcing
Also Used As Flush French Casement Overlap



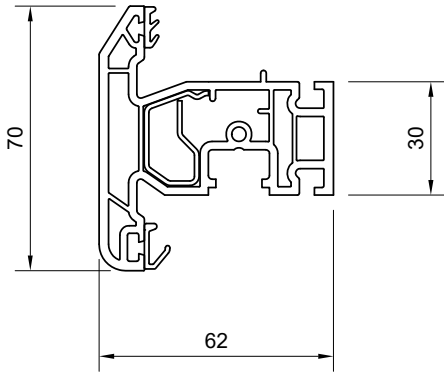
P90203 Storm 2 70mm Transom / Mullion
S00187 Reinforcing



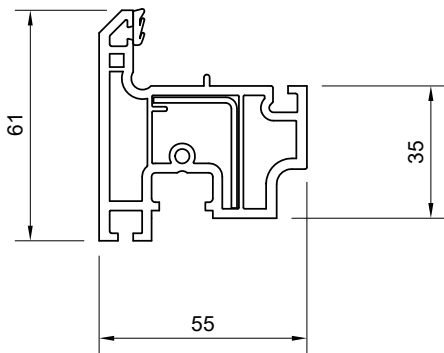
P62203 Storm 70mm Dummy Transom / Mullion
S00187 Reinforcing



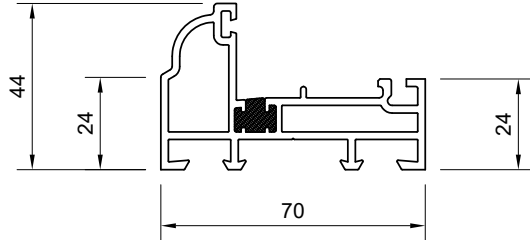
P10612 Storm French Casement Overlap
S41135 Reinforcing



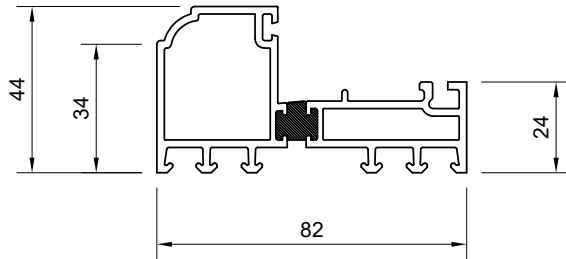
P90208 Storm Casement Sash
S00183 Reinforcing



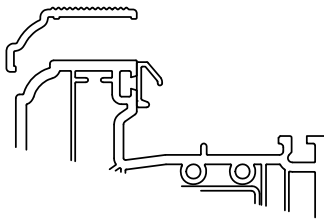
P10527 Flush Casement Sash
S00226 Reinforcing



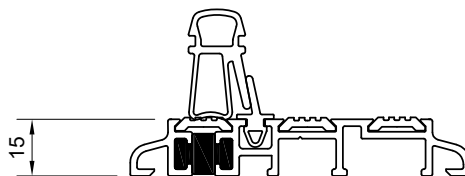
A00333 Storm 1 44mm Threshold
Note: Thermally Broken Aluminium



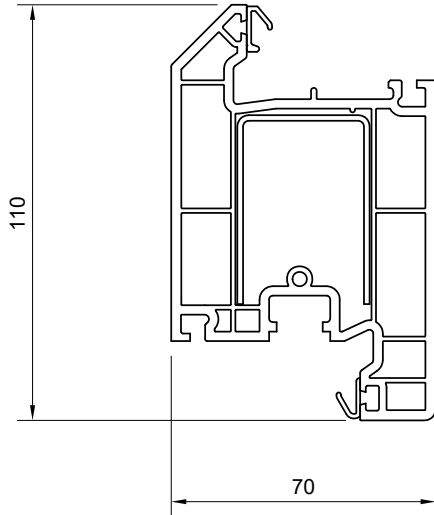
A00435 Storm 2 44mm Threshold
Note: Thermally Broken Aluminium



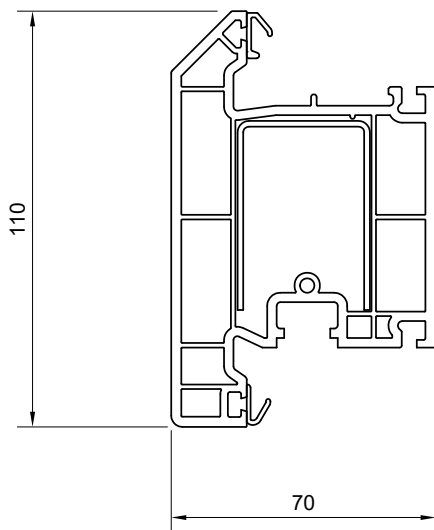
104475 Aluminium Kick Strip
Note: For Storm 2 56mm and 72mm
Thresholds



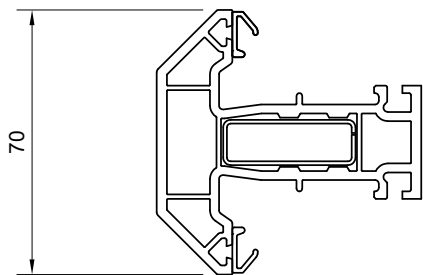
A00289 Part M Low Threshold with P01047
Threshold Inserts, G00086 Threshold Seal
and G00087 Sash Seal
Note: Thermally Broken Aluminium
Not suitable for use with French Doors or
Doors with Shootbolt Locking



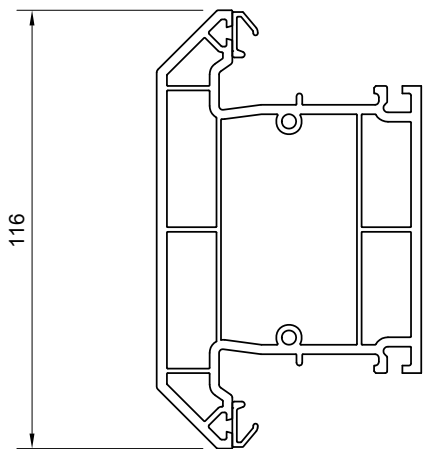
P10510 Open In Door Sash
S00162 / S00163 Reinforcing



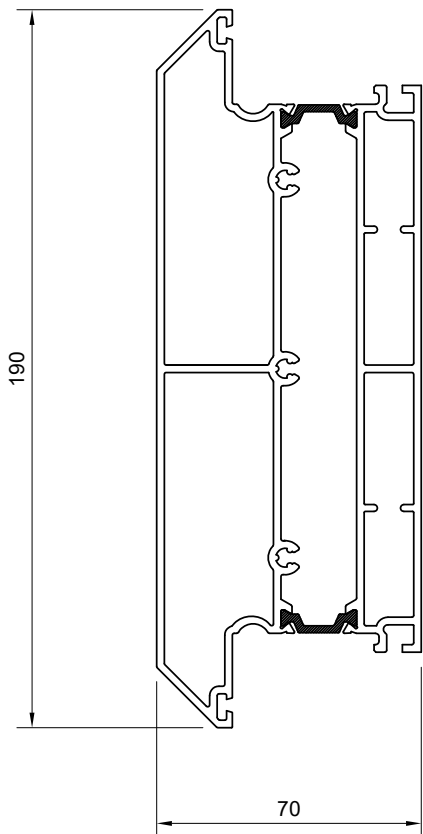
P10511 Open Out Door Sash
S00162 / S00163 Reinforcing



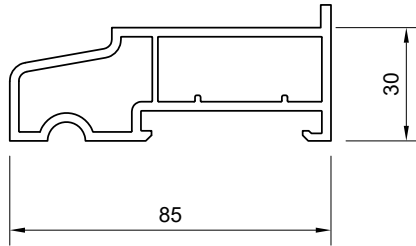
P10503 70mm Mullion / Transom
S00187 Reinforcing



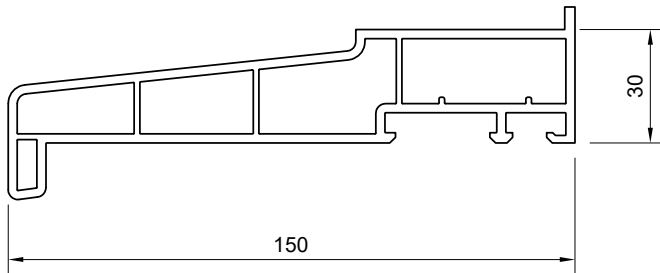
P10505 116mm Transom / Mullion / Midrail



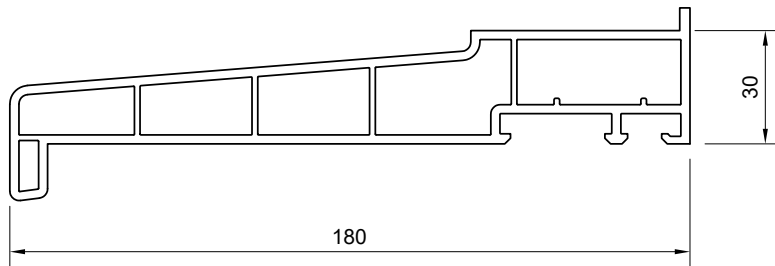
A00424 190mm Midrail
Note: Thermally Broken Aluminium



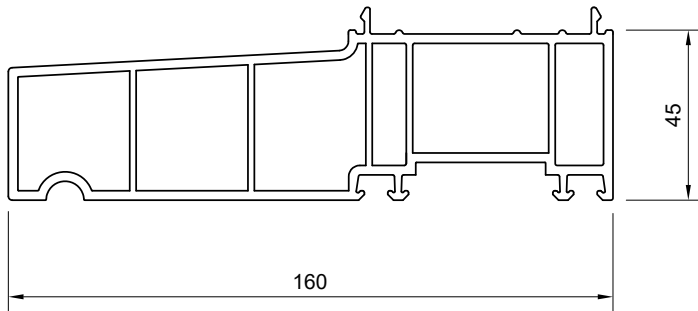
P90039 Storm 1 & 2 85mm Cill



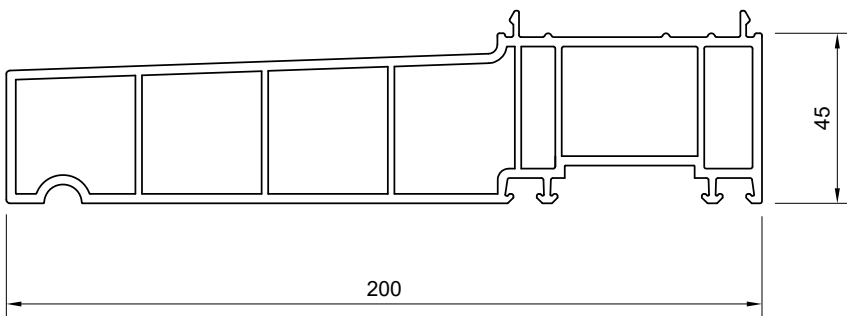
P90042 Storm 1 & 2 150mm Cill



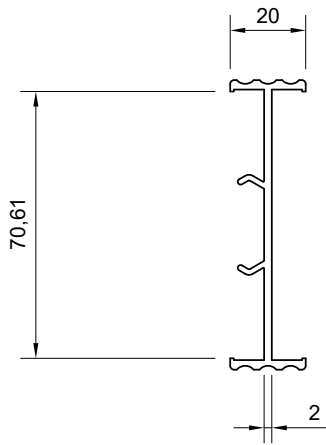
P90043 Storm 1 & 2 180mm Cill



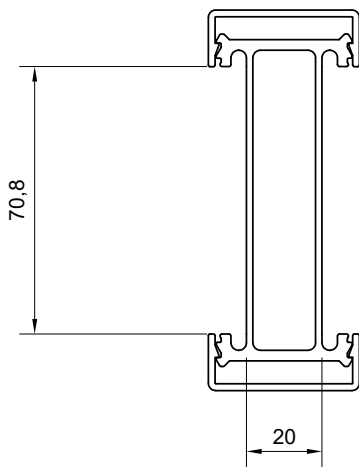
P90120 Storm 2 160mm Cill



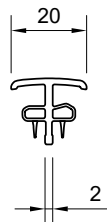
P90144 Storm 2 200mm Cill



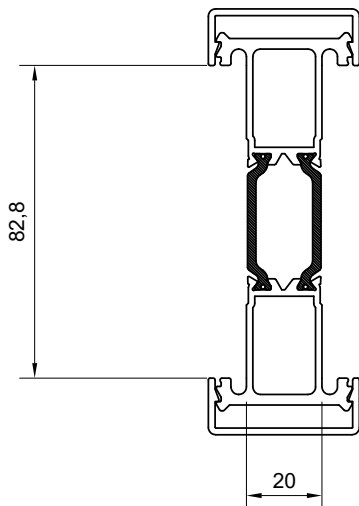
P10318 Storm 1 2mm Coupler



A00022 Storm 1 Heavy Duty Coupler - Aluminium
P10323 Plain Cover



116 217 Storm 2 2mm Coupler
2 Required Per Frame Coupling (1 External, 1 Internal)



A00434 Storm 2 Heavy Duty Coupler
Thermally- Broken Aluminium
P10323 Plain Cover



P10431
28mm Glazing Bead - Storm



P10432
28mm Glazing Bead - Flush
32mm Glazing Bead - Storm



P10426
32mm Glazing Bead - Flush



P10191
20mm Georgian Bar
External - Putty Line - Storm



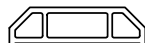
P10193
20mm Georgian Bar
External - Putty Line - Flush



P90123
20mm Georgian Bar
Internal - Ovolo - Storm & Flush



EV03
36mm Georgian Bar
External & Internal - Storm



709021
36mm Georgian Bar
External & Internal - Flush

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