



PATIO DOOR

Guidelines Advice & General Information.

Although it is possible to manufacture a five metre four pane patio door it is recommended when dark coloured foiled profiles are installed in south facing locations or where there is a possibility of heat build-up, where internal or external heat build-up could be a factor it is recommended to limit the number of sashes to two, In all cases sufficient expansion allowance and adequate ventilation should be included. Please refer to the Variations document for list of dark colours.

Due to the nature of patio doors and their assembly, they should be classed as domestic products only and the location in which they are installed should be clarified in advance. VEKA therefore recommend that they are not installed above 3 floors or in exposed locations. **INSTALLERS IGNORE THIS ADVICE AT THEIR OWN RISK.** Where the design wind pressure category is known to be 1200 Pascals or greater it is recommended that the advice of the technical department should be sought prior to manufacture and installation.

A lintel or structural reinforcement may be required over large spans. Suitable strength must be available to ensure a solid fixing at the correct centers along the head of the frame, a structural engineer may need to be consulted to ensure this. It is recommended to use a portal frame in conservatories, please consult the roof supplier for advice on this.

No colour stability guarantee is offered on white gasket products.

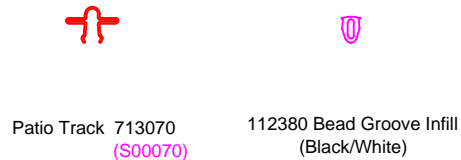
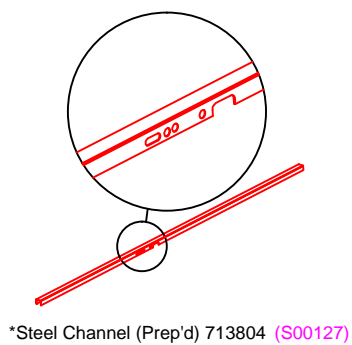
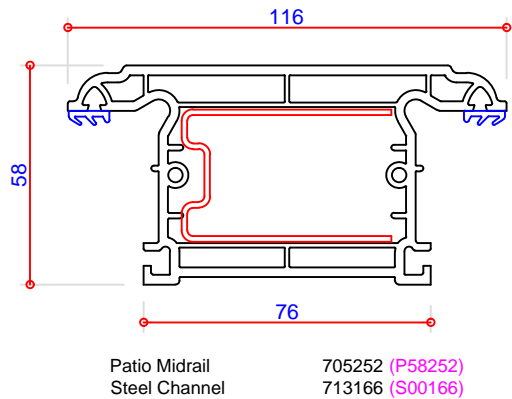
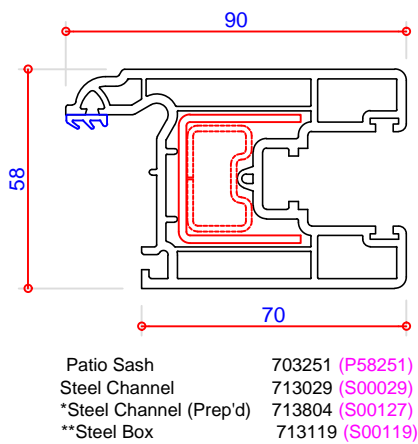
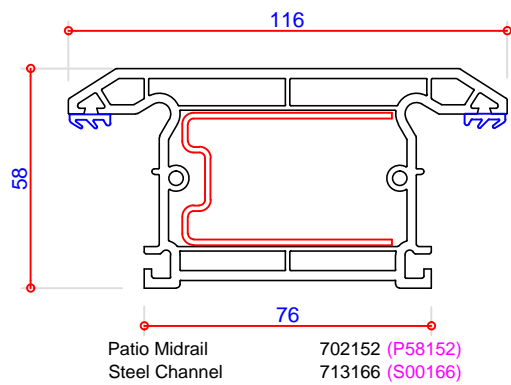
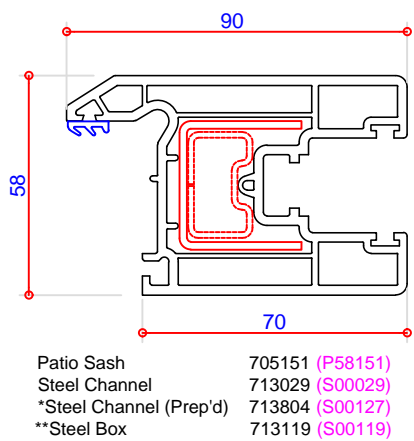
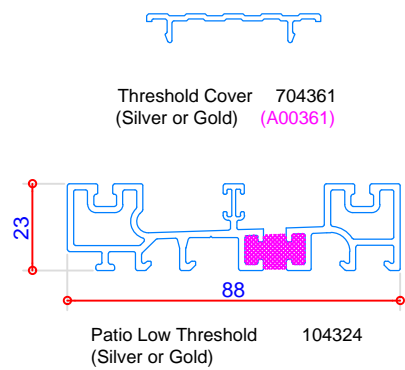
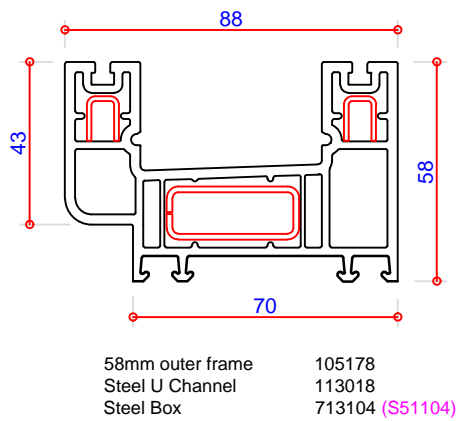
The profiles and system used within this manual are designed to be internally beaded only.

The information provided in this manual should be treated as guidance only. VEKA PLC cannot control how the information is interpreted and therefore cannot be held responsible for any failure. Regulations regarding health and safety of operatives along with relevant building regulations should be strictly adhered to VEKA PLC therefore cannot be held responsible for any failure to comply with them. This statement does not affect the fabricators statutory rights.

Do not scale drawings in this manual. The drawings shown are visual representations only. VEKA PLC has the right to alter the designs, specification & descriptions without prior notice as part of our policy of continuous development and improvement.

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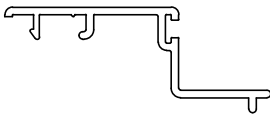
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15	Mechanical Joint 1
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18	Handle



3



Draught Strip 109064



Outer Frame Cover 705152
(P10152)



Sash Cover 709112
(P10112)



28mm Bead 707427
(P10427)



28mm Bead 707432
(P10432)



32mm Bead 707426
(P10426)



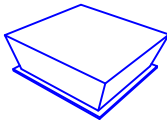
Gasket 712044
(For Repair) (G00044)



6.7-750-WE Woolpile 744961
(H00961)



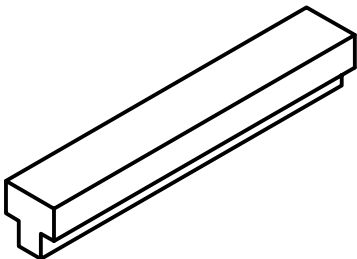
11-800-P Woolpile 744226
(H00226)



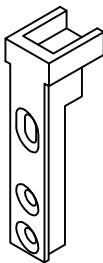
20-800-P 55mm Woolpile 744778
(H01778)



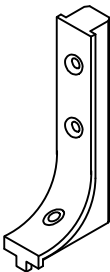
Insert 709047
(P01047)



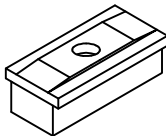
SBD Interlock Retainer 109065



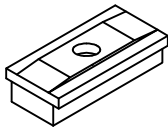
Anti Lift Device 709818
(M00119)



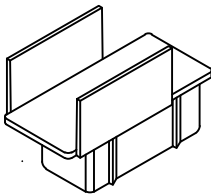
Fixed Pane Bracket 709819
(M00123)



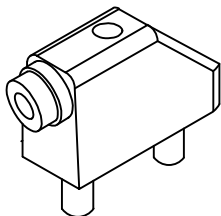
Base Packer 709081
(M00081)



Jamb Packer 709082
(M00082)



Multi Pane End Cap 709801
(M00115)



Patio Door Stop 709128
(M00128)

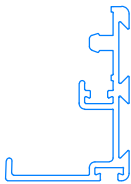
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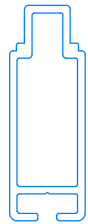
Interlock
(White or Foil) 704181
(A00181)



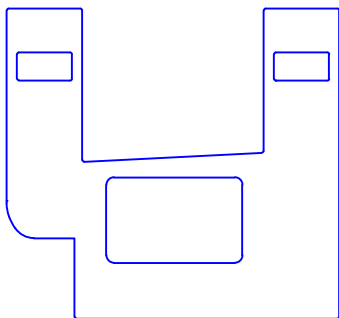
Interlock
(White or Brown) 704208
(A00208)



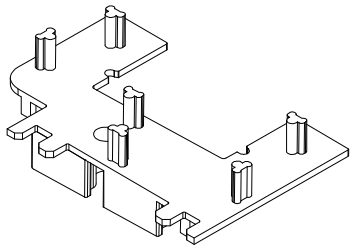
Threshold 704180
(White or Brown) (A00180)



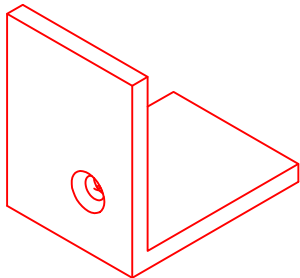
Multi Pane Adaptor 715134
(White or Brown) (A00134)



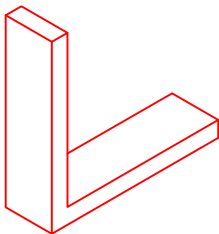
Mechanical Joint Gasket 106411
(Black or White)



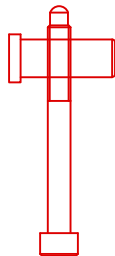
Mechanical Joint Moulding 109058
(White/Brown/Caramel)



Mechanical Joint Bracket 141405



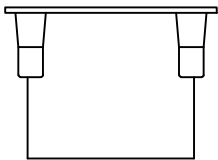
Mechanical Joint Internal Bracket 141406



Mechanical Joint Pin 744786 (H01786)
M6 x 60 Cap Screw 744673 (H00673)



Mechanical Joint Reinforcement 115112



709194 (M00194) Letter Plate Cover Moulding (Black)
(For use with a Yale 10" Wellseal Letter Plate)

Minimum And Maximum Sizes.

Sizes are for Veka patio doors manufactured in accordance with this manual. Optional midrail does not alter these sizes. Sizes are assuming equal splits.

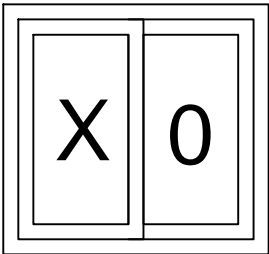
5

X = Opening sash O = Fixed sash

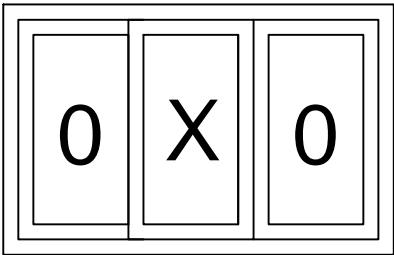
Width Range:

Minimum Maximum

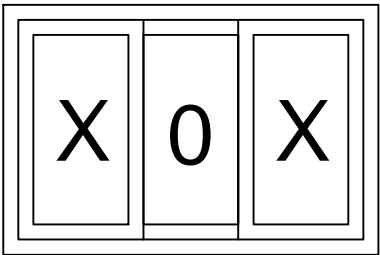
1600mm 3000mm



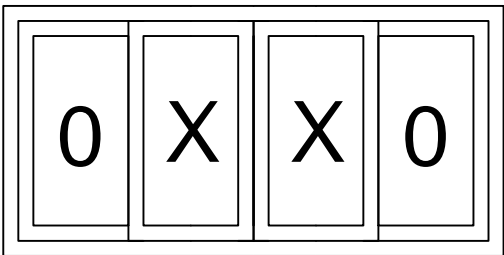
2400mm 4000mm



2400mm 4000mm



3000mm 5000mm



Height Range (All styles):

Threshold Minimum Maximum



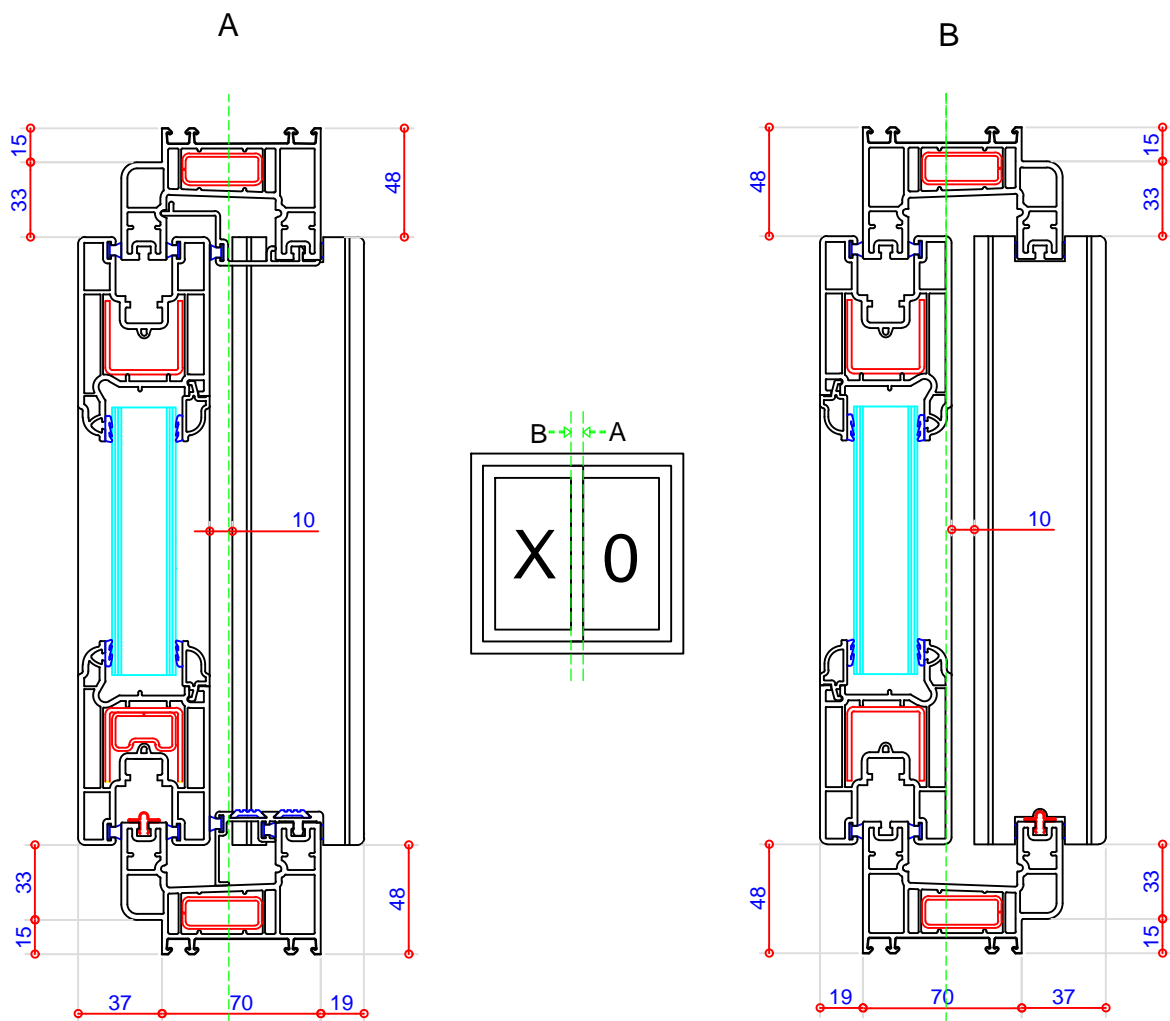
105178
104324

2000mm
1965mm

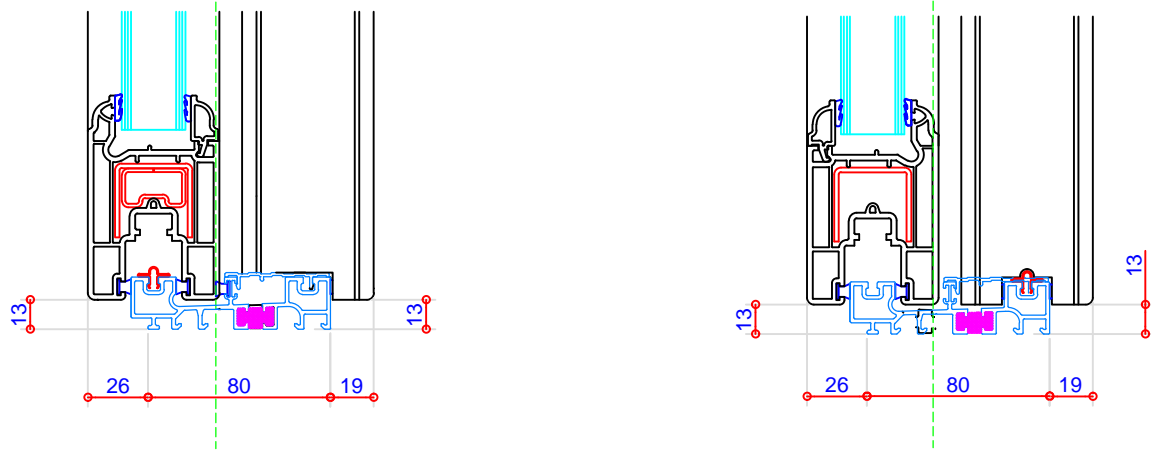
2400mm
2365mm

Profile Combinations 1.

6

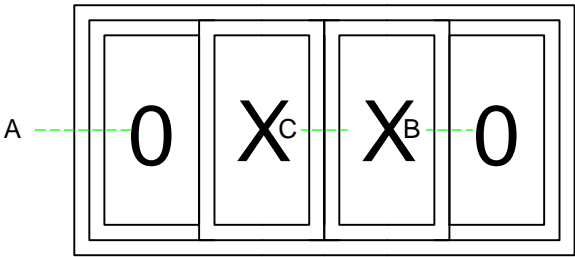


Alternative Aluminum Threshold 104324

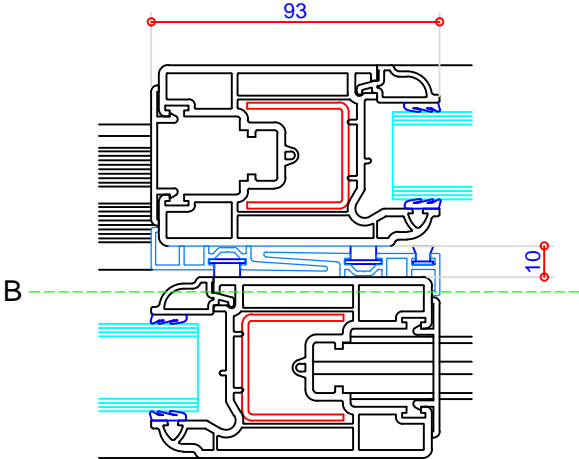
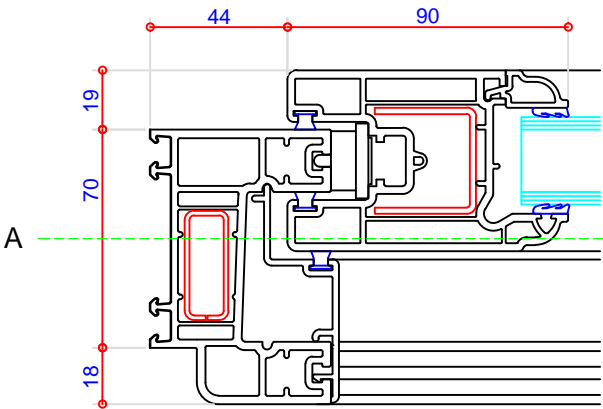


DIMENSIONS APPLY TO CHAMFERED SECTIONS ALSO

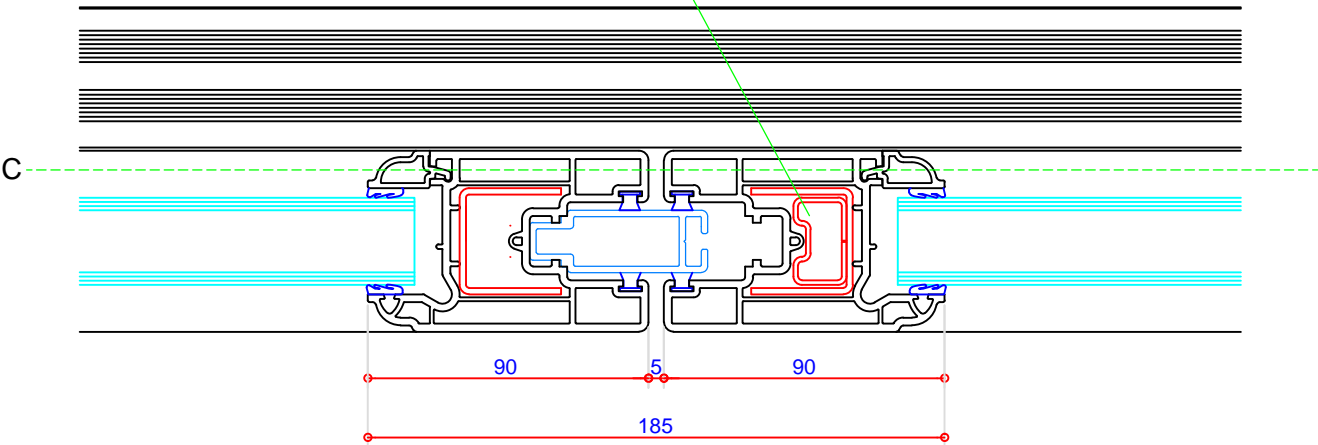
Profile Combinations 2.



7

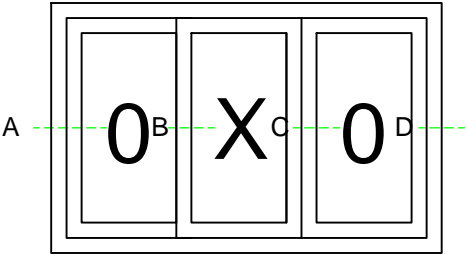
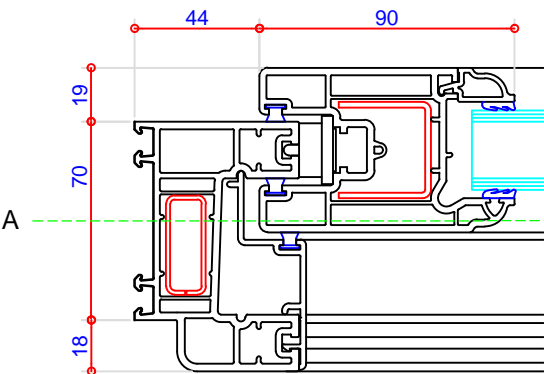


713119 (S00119)
Above & Below
Gear Case on
lock side only



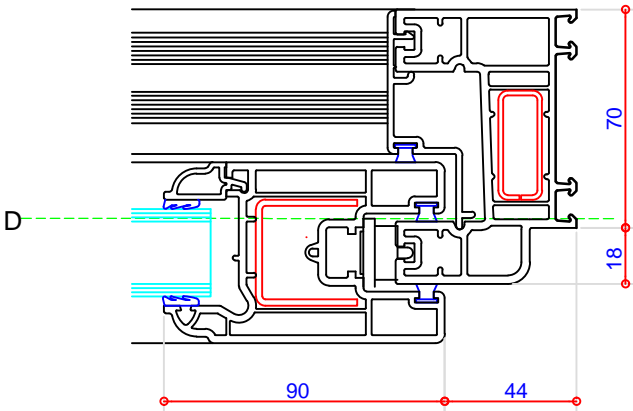
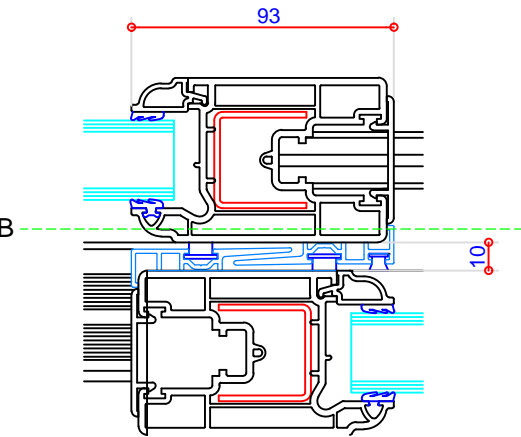
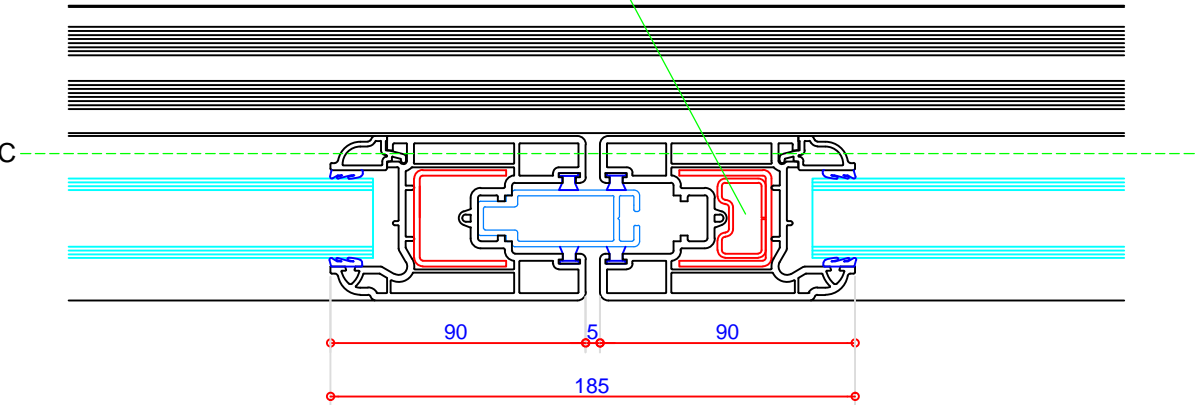
DIMENSIONS APPLY TO CHAMFERED SECTIONS ALSO

Profile Combinations 3.



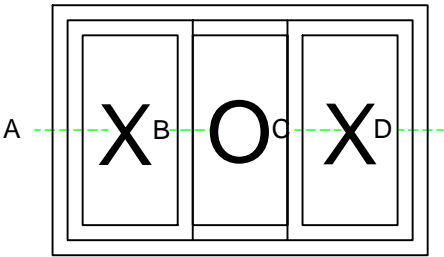
8

713119 (S00119)
Above & Below
Gear Case on
lock side only

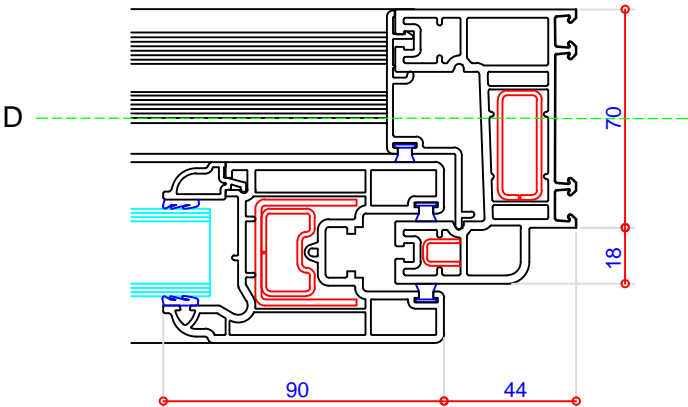
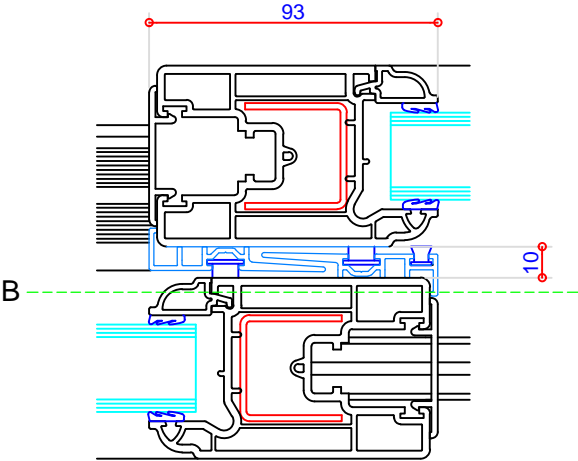
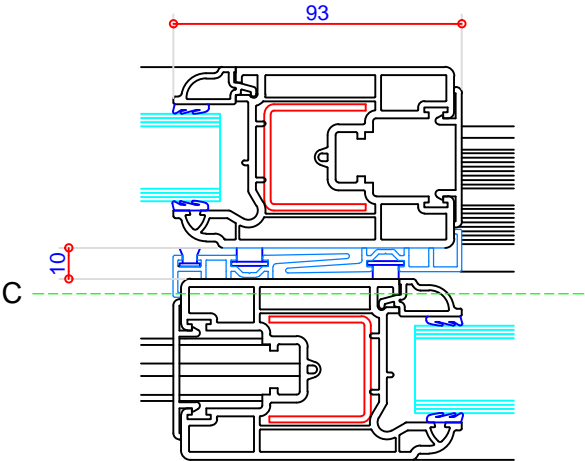
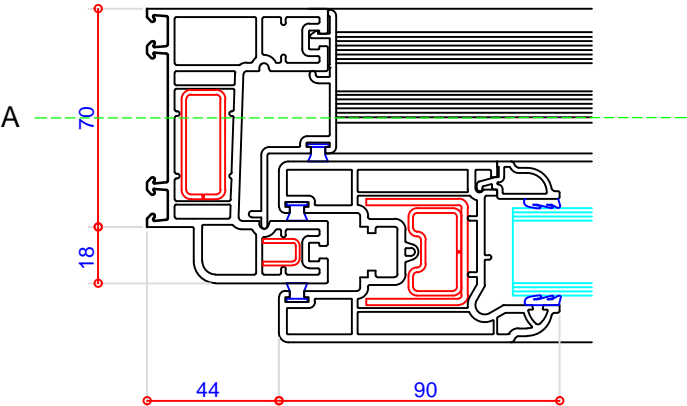


DIMENSIONS APPLY TO CHAMFERED SECTIONS ALSO

Profile Combinations 4.



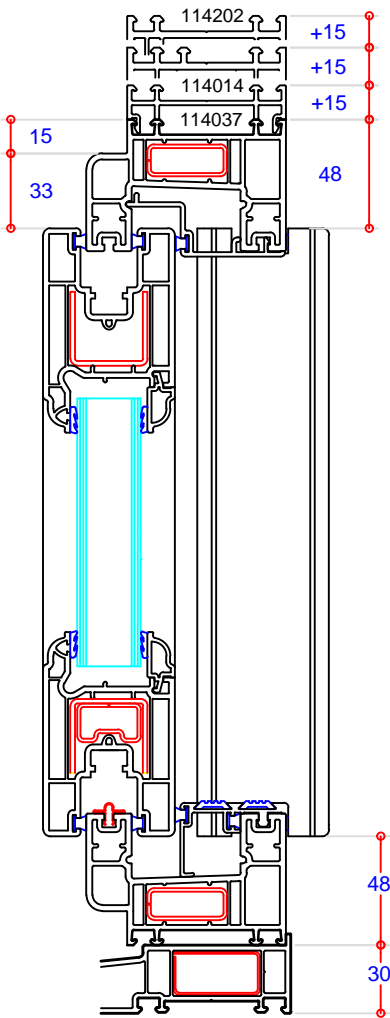
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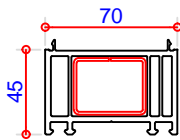
DIMENSIONS APPLY TO CHAMFERED SECTIONS ALSO

Profile Combinations 5.

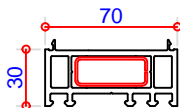
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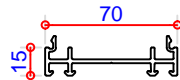
Optional 15mm, 30mm & 45mm Extensions are available for increasing clearance.



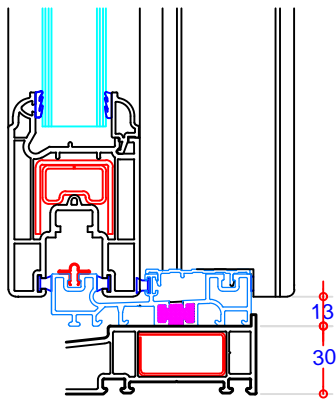
45mm Frame Extension 114202
Steel Box 38 x 30mm 113271



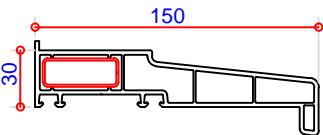
30mm Frame Extension 114014
Steel Box 38 x 15mm 113073



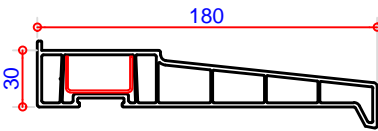
15mm Frame Extension 114037



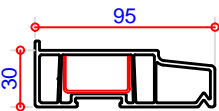
Optional Cills are available were required



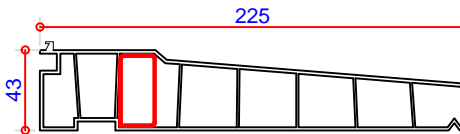
150mm Cill 110103
Steel Box (S00016) 713016
End Caps 109006
Straight Coupler 109010



180mm Cill 110076
Steel U Channel 113377
End Cap 109090



95mm Cill 110074
Steel U Channel 113377
End Cap 109074



225mm Cill 110106
Steel Box 113245
Steel U 113317
End Cap 109647

DIMENSIONS APPLY TO CHAMFERED SECTIONS ALSO

PATIO DOOR

Profile Combinations 6.

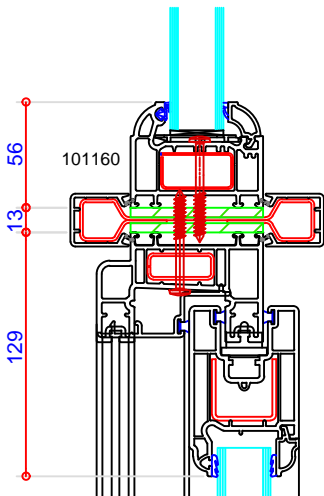
Coupling Options

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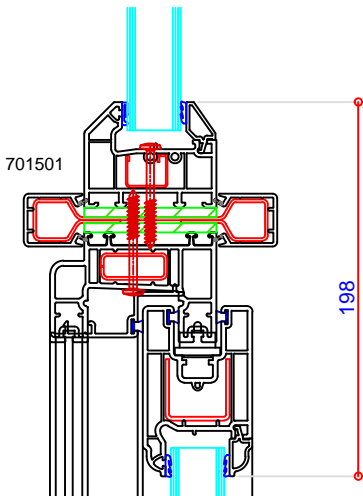


113112 Dogbone Coupler
116012 Covering Profile Suitable for VEKA or Halo systems

101160 Fully Sculptured
56mm Outer used for
illustration purpose only



701501 System 10
56mm Outer used for
illustration purpose only



5mm packers recommended
to allow for expansion.



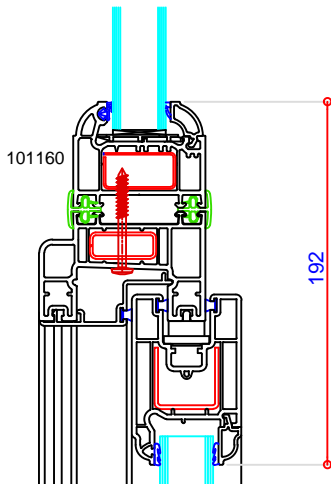
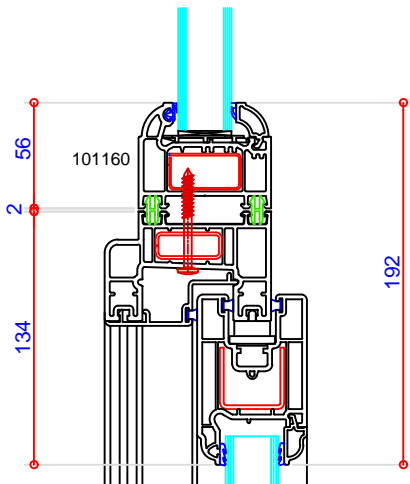
4.8 x 55mm Self Tapping Screw (Non VEKA part).



116030 Concealed Coupler (VEKA only)



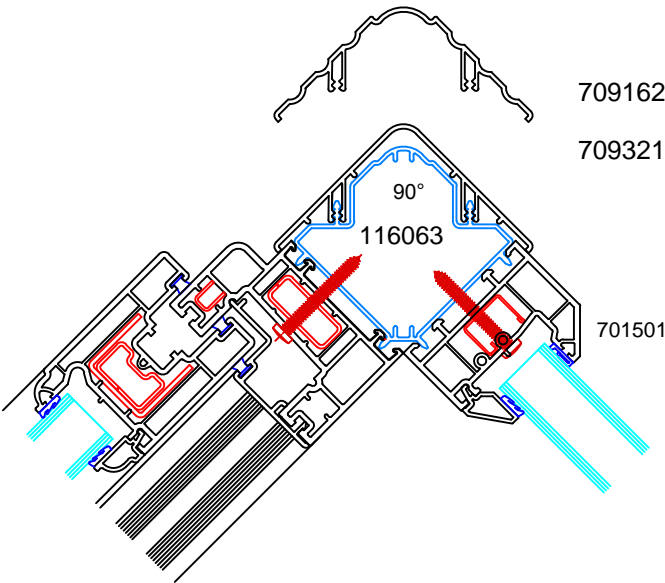
116217 2mm Coupler (VEKA only)



DIMENSIONS APPLY TO CHAMFERED SECTIONS ALSO

Profile Combinations 7.

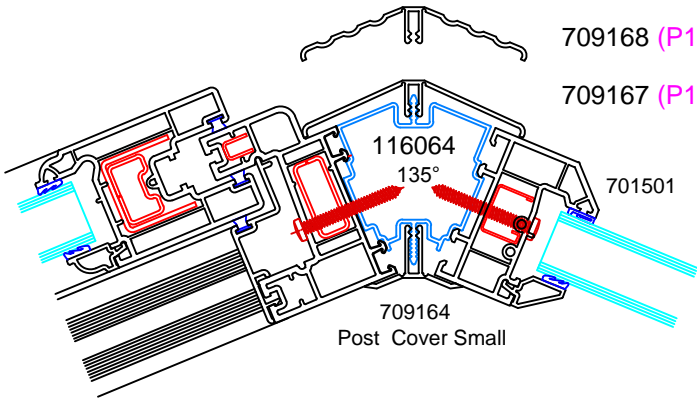
Coupling Options (Halo profiles)



709162 (P10162) Featured Cover

709321 (P10321) Plain Cover

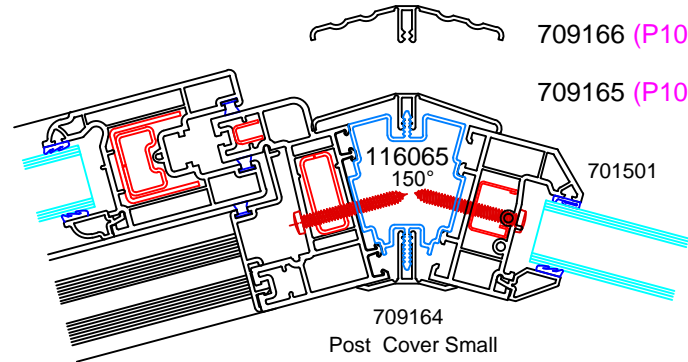
Halo Deductions		
116063	90°	0mm
116064	135°	10mm
116065	150°	10mm



709168 (P10168) Featured Cover

709167 (P10167) Plain Cover

5.5 x 50mm Pan Head Self Tapping Screw (Non VEKA part).



709166 (P10166) Featured Cover

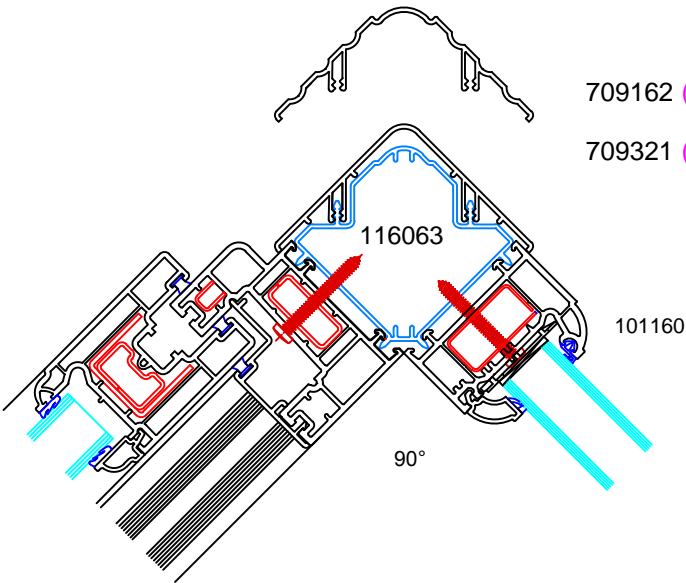
709165 (P10165) Plain Cover

DIMENSIONS APPLY TO CHAMFERED SECTIONS ALSO

Profile Combinations 8.

Coupling Options (VEKA Profiles)

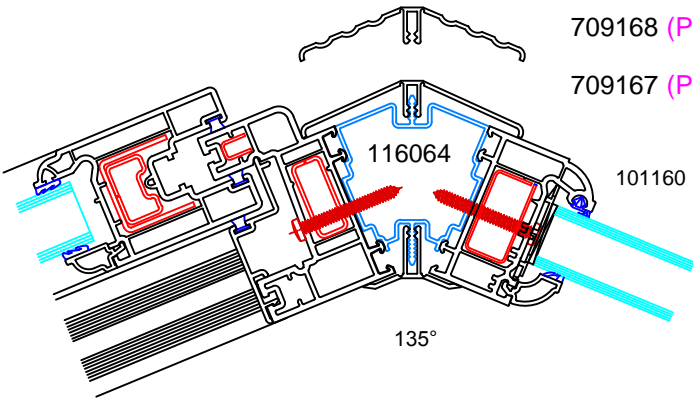
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709162 (P10162) Featured Cover

709321 (P10321) Plain Cover

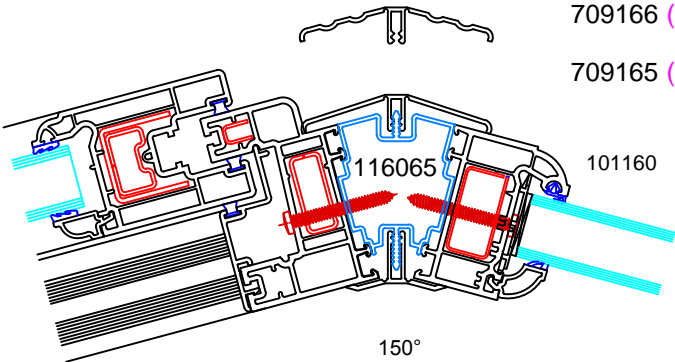
VEKA Deductions		
116063	90°	0mm
116064	135°	8mm
116065	150°	8mm



709168 (P10168) Featured Cover

709167 (P10167) Plain Cover

5.5 x 50mm Pan Head Self
Tapping Screw (Non VEKA part).



709166 (P10166) Featured Cover

709165 (P10165) Plain Cover

DIMENSIONS APPLY TO CHAMFERED SECTIONS ALSO

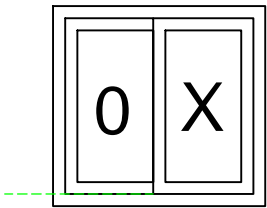
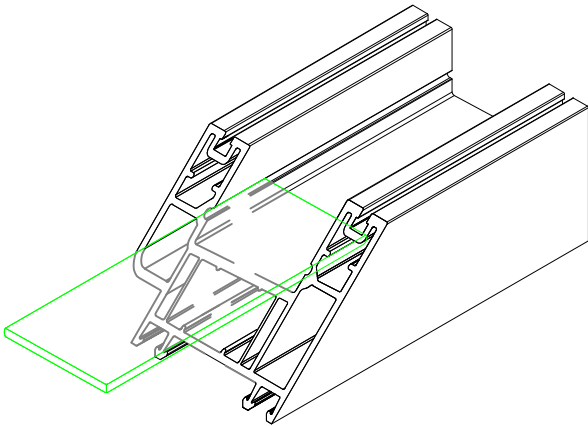
Draught Strip Tray Cover

Draught Strip 109064

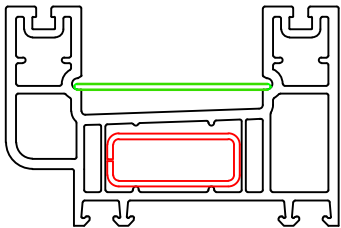


Cut size = Sash size = finished sash width

The optional Draught Strip tray is designed to conceal the drainage and re-direct any air which is forced through the drainage slots when a PVC threshold is used.



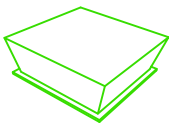
14



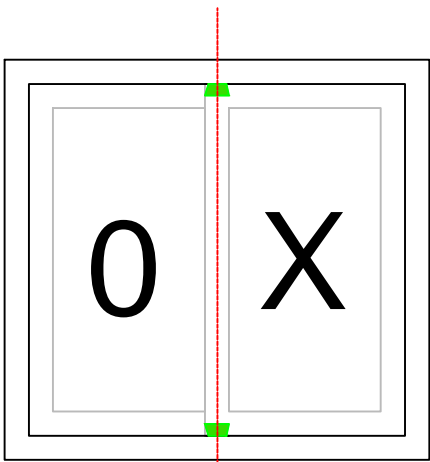
The Draught Strip must be inserted into the outer frame prior to welding or connecting mechanically fixed bottom corners. The strip can easily be slid into position once the frame has been joined and the corners cleaned where required.

Wool Pile Pad

20-800-P 55mm Woolpile 744778 (H01778)



Once the frame has been welded & corner cleaned or mechanically jointed, the draft strip can be slid into position and the 55mm woolpile pads can be fitted.



Centralized

Mechanically Jointing Frames (Optional)

- 1. Reinforcement 115112
- 2. Gasket 106411
- 3. Internal Brackets 141406
- 4. Bracket 141405

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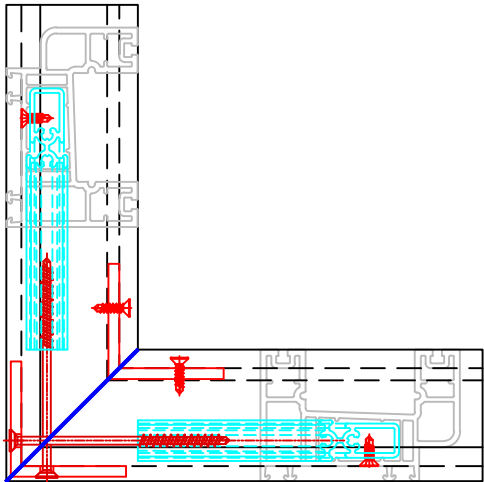
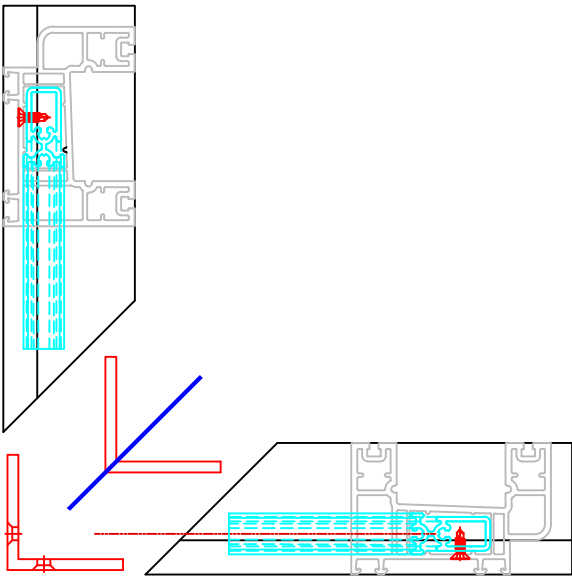
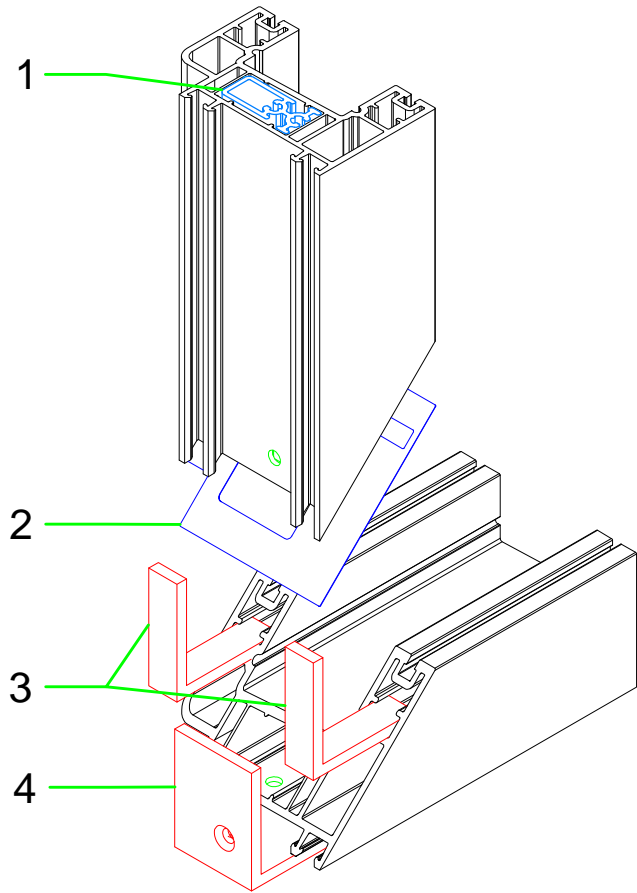
Ensure 115112 reinforcement has been inserted into the outer frame profile.

Insert 2 x 141406 internal brackets into one piece of the outer frame profile.

Locate the 106411 gasket onto the internal brackets.

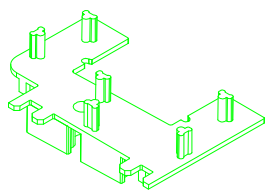
Feed the second piece of outer frame profile onto the internal brackets.

Secure using 2 x 5mm x 80mm screws through the holes on the 141405 Bracket into the reinforcement screw ports.

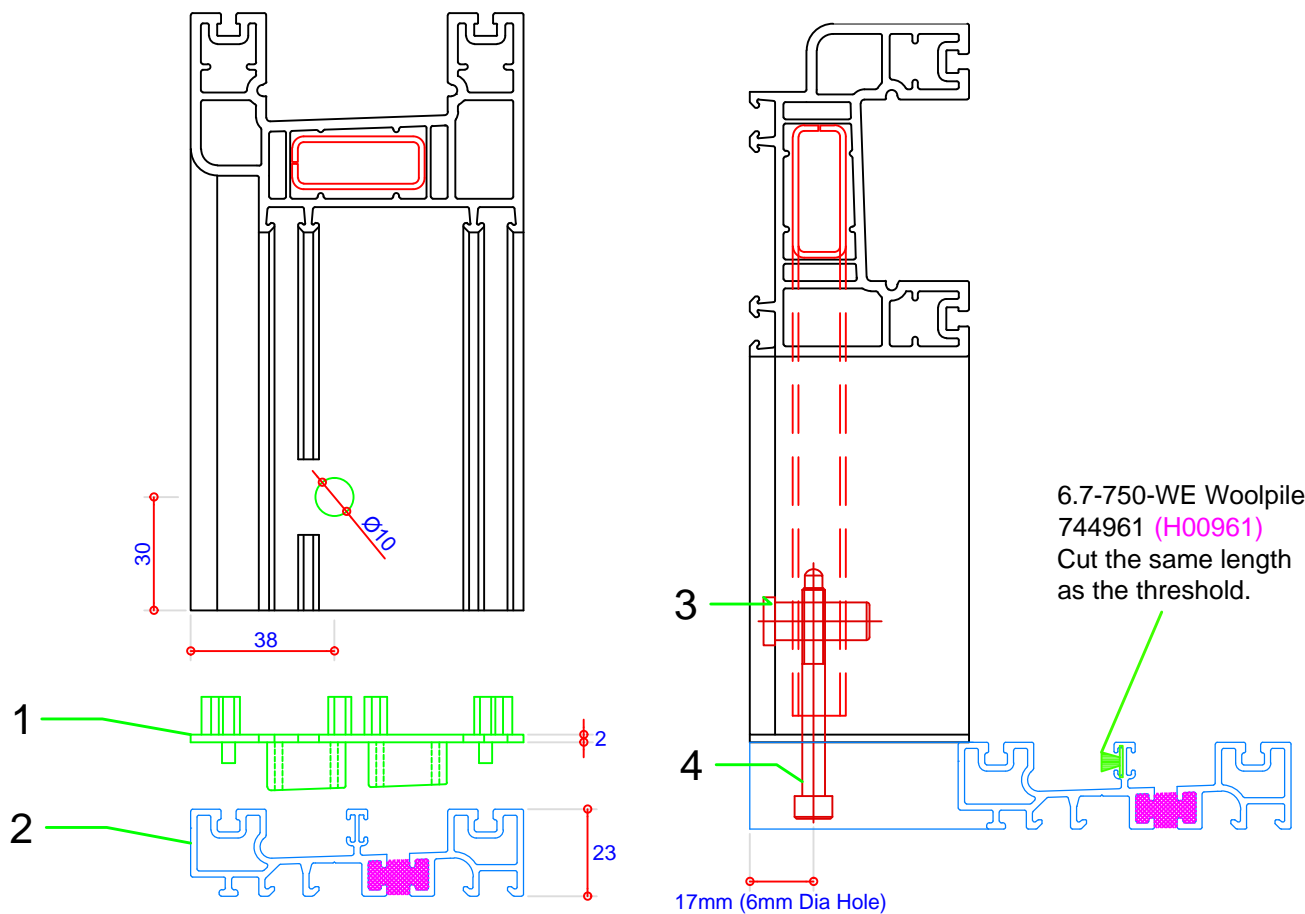


Fitting The Low Threshold

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- 1. Mechanical Joint Molding 109058
- 2. Low Threshold 104324
- 3. Mechanical Joint Pin 744786 (H01786)
- 4. M6 x 60 Cap Screw 744673 (H00673)



The Mechanical joint molding is designed to house the aluminium threshold on the jamb of the frame, cut at 90°.

A 10mm hole is required as illustrated along with a small section of the adjacent leg on the outer frame profile will need removing for the mechanical joint pin to locate.

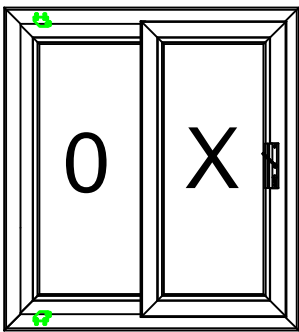
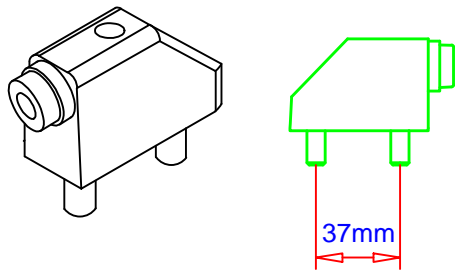
A 6mm hole will be required as illustrated to allow the mechanical joint screw to secure the threshold to the jamb.

Silicone seal all joints to prevent water ingress into the brickwork.

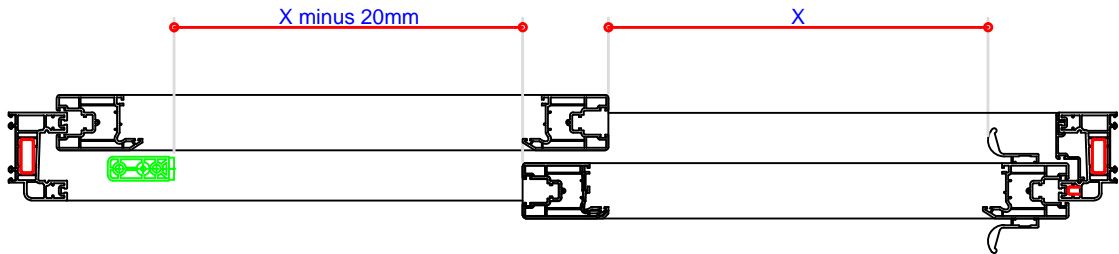
Attaching The Door Stop

Patio Door Stop 709128 (M00128)

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The patio stop is to be fitted behind the sliding sash at the head and base as shown below. Please note X varies according to the type of handle used and dimensions of the patio.

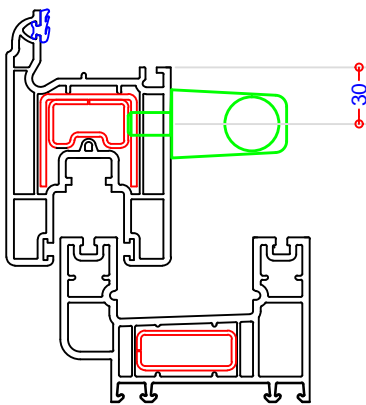
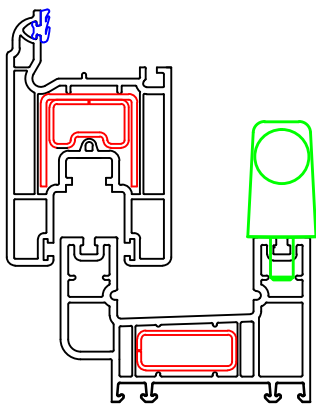
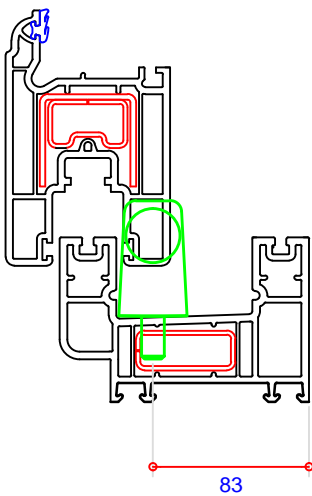


Various positions for the stop are possible. 2 x 8mm holes will be required. Attach using 3.9 x 45mm C/SK Drill Point Screws. Images show three positions on an internal sliding patio.

1. In the drainage channel - not suitable when a drip tray is used.

2. In the track channel - the track will need to be cut back to accept this position.

3. On the face of the sash.



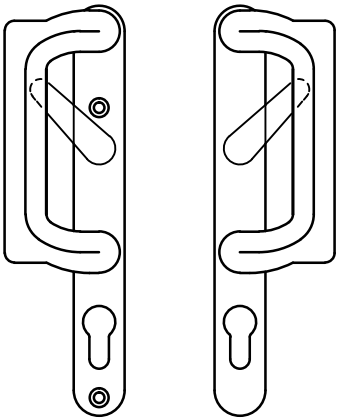
APPLIES TO CHAMFERED SECTIONS ALSO

Handle

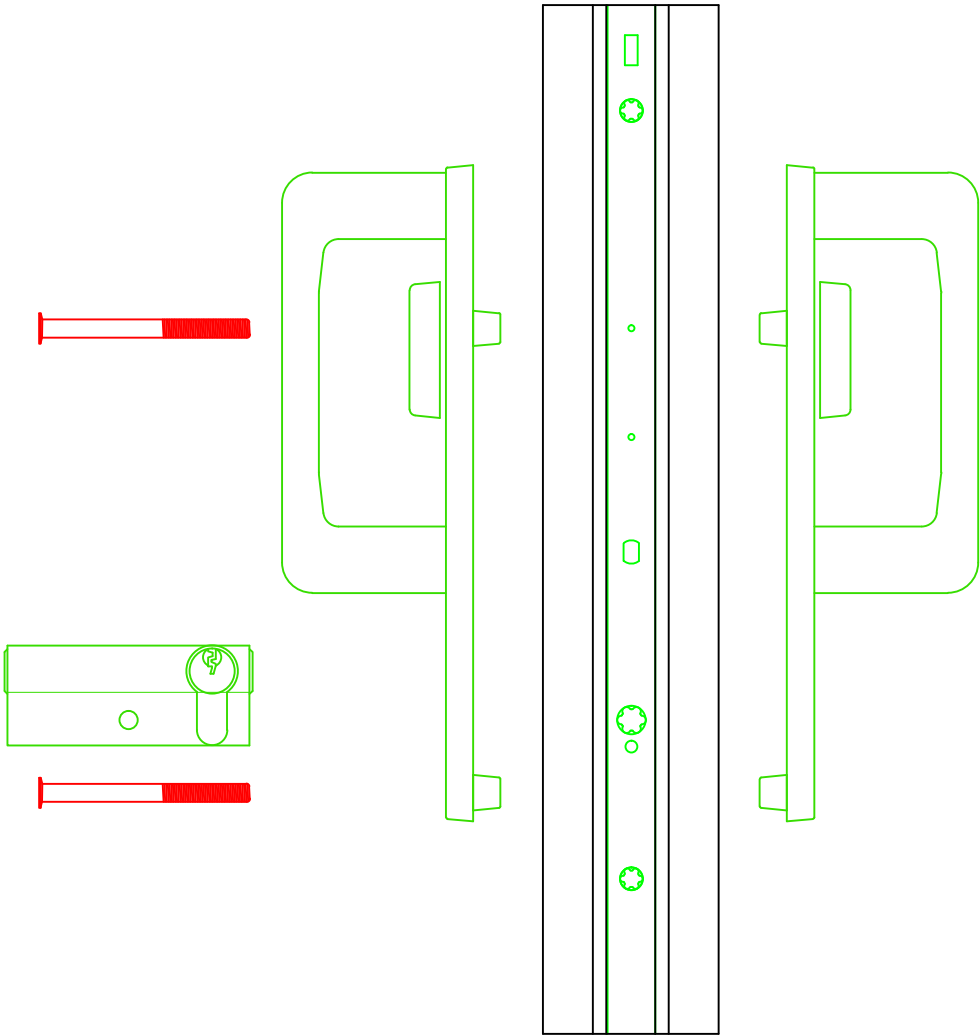
Non VEKA part.

Handle - 65mm Spindle / 87mm Spindle	
White	PPHD-301-W126
Black	PPHD-338-W126
Chrome	PPHD-375-W126
Gold	PPHD-331-W153

Cylinder - 3 Star Kitemarked (Yale TS007)	
Brass	ASP4040PB
Nickel	ASP4040BN



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APPLIES TO CHAMFERED SECTIONS ALSO

VEKA PLC
Farrington Rd
Rossendale Road Ind Est
Burnley
Lancashire
BB11 5DA

www.vekauk.com