

imagine

PATIO DOOR INSTALLATION MANUAL NOVEMBER 2019



GUIDELINES

Guidelines, Advice & General Information

Patio doors are a specialist product and thought needs to be given in regards to manufacture and installation. Tolerances are critical, therefore VEKA UK Group recommends this product is manufactured on its own line or a specials line and is therefore not treated as a main line product.

Although it is possible to manufacture a five metre, four pane patio door, when dark coloured foiled profiles are installed in south facing locations or where there is a possibility of heat build-up, either internally or externally, 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 VEKA Variations document for which foils are classed as dark colours.

All frames and sashes must be reinforced as per the guidelines in this manual irrespective of size or colour.

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 to be installed should be clarified in advance.

A lintel or structural reinforcement may be required over large spans. Suitable strength must be available to ensure a solid fixing at the correct centres along the head of the frame. A structural engineer may need to be consulted for the specification of the steel. VEKA UK Group recommend using a portal frame in conservatories, for guidance please contact the roof supplier.

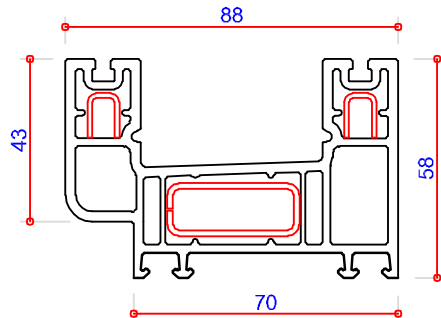
The profiles and system used within this manual are designed to be internally beaded only.

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

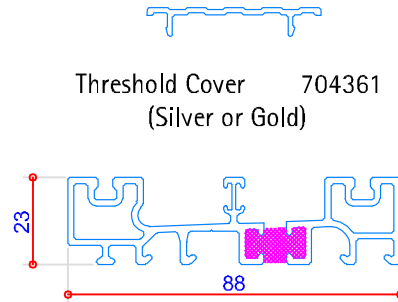
Do not scale from drawings in this manual. The drawings shown are visual representations only. VEKA UK Group has the right to alter the designs, specification and descriptions without prior notice as part of our policy of continuous development and improvement.



PVC & STEEL PROFILES & THRESHOLDS

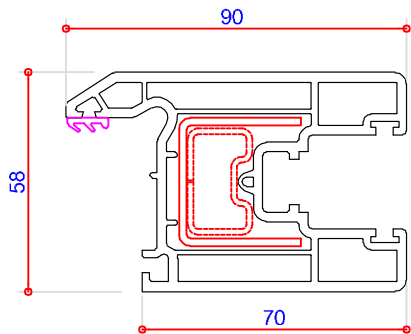


58mm outer frame 105178
Steel U Channel 113018
Steel Box 713104

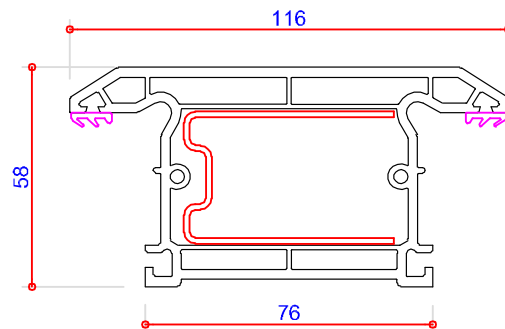


Threshold Cover 704361
(Silver or Gold)

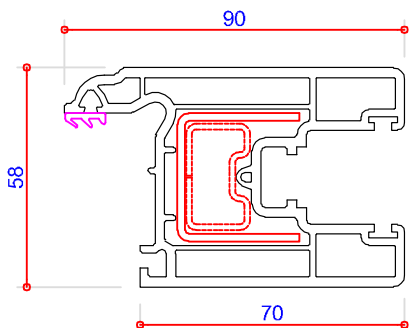
Patio Low Threshold 104324
(Silver or Gold)



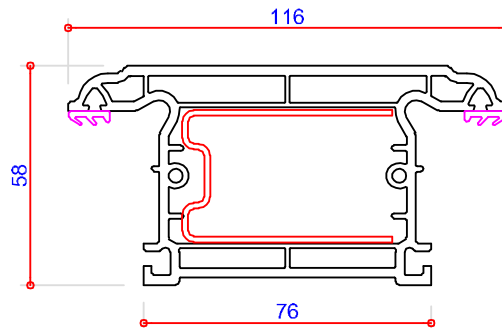
Patio Sash 705151
Steel Channel 713029
*Steel Channel (Prep'd) 713804
**Steel Box 713119



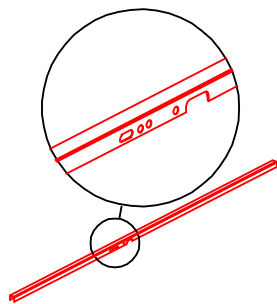
Patio Midrail 702152
Steel Channel 713166



Patio Sash 703251
Steel Channel 713029
*Steel Channel (Prep'd) 713804
**Steel Box 713119



Patio Midrail 705252
Steel Channel 713166



*Steel Channel (Prep'd) 713804



Patio Track 713070



Bead Groove Infill 112380
(Black/White)

1

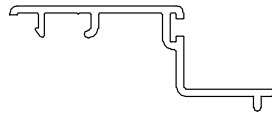


BEAD GASKETS & SEALS

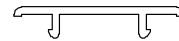
1



Draught Strip 109064



Outer Frame Cover 705152



Sash Cover 709112



28mm Bead 707427



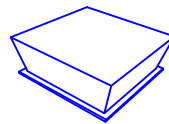
28mm Bead 707432



6.7-750-WE
Woolpile 744961



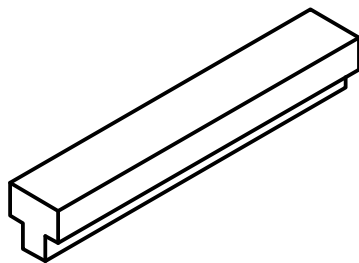
11-800-P
Woolpile 744226



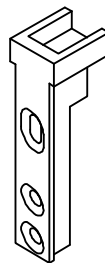
20-800-P 55mm
Woolpile 744778



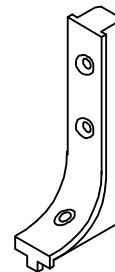
Insert 709047



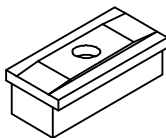
SBD Interlock Retainer 109065



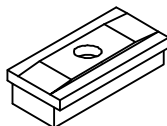
Anti Lift Device 709818



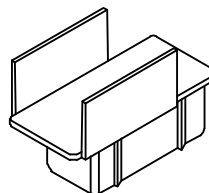
Fixed Pane Bracket 709819



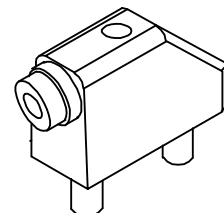
Base Packer 709081



Jamb Packer 709082



Multi Pane End Cap 709801



Patio Door Stop 709128



MECHANICAL JOINT COMPONENTS

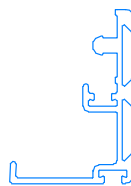
1



Interlock 704181
(White or Foil)



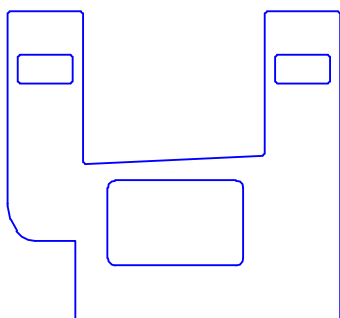
Interlock 704208
(White or Brown)



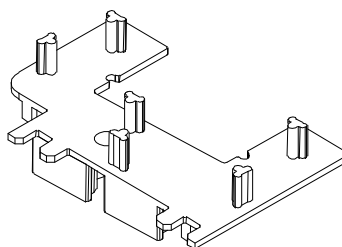
Threshold 704180
(White or Brown)



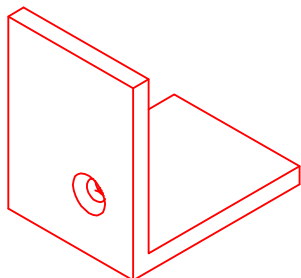
Multi Pane Adaptor 715134
(White or Brown)



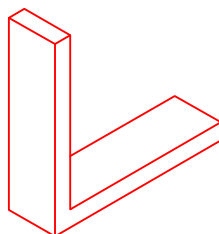
Mechanical Joint Gasket 106411
(Black or White)



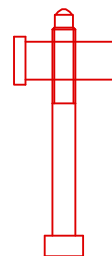
Mechanical Joint Moulding 109058
(White / Brown / Caramel)



Mechanical Joint Bracket
141405



Mechanical Joint
Internal Bracket 141406



Mechanical Joint Pin 744786
M6 x 60 Cap Screw 744673



Mechanical Joint
Reinforcement 115112



MINIMUM & MAXIMUM SIZES

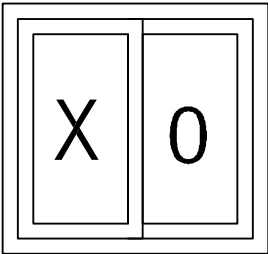
Sizes are for VEKA patio doors manufactured in accordance with this manual. Optional midrail does not alter these sizes. Sizes are assuming equal splits.

X = Opening sash O = Fixed sash

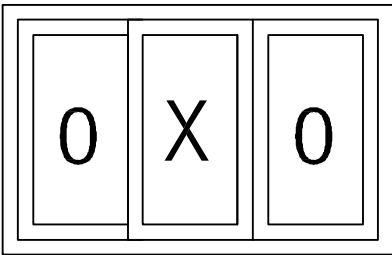
Width Range:

Minimum Maximum

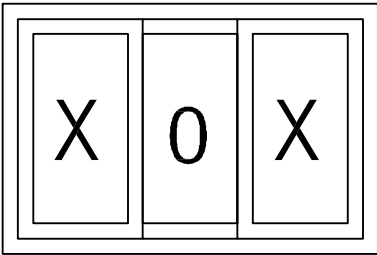
1600mm 3000mm



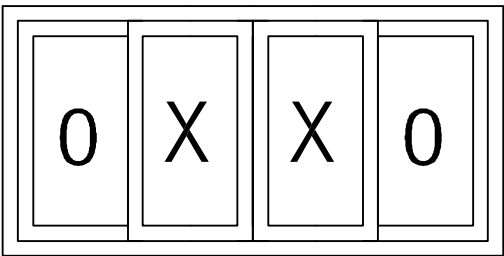
2400mm 4000mm



2400mm 4000mm



3000mm 5000mm



Height Range (All styles):



Threshold Minimum Maximum

105178 2000mm 2400mm

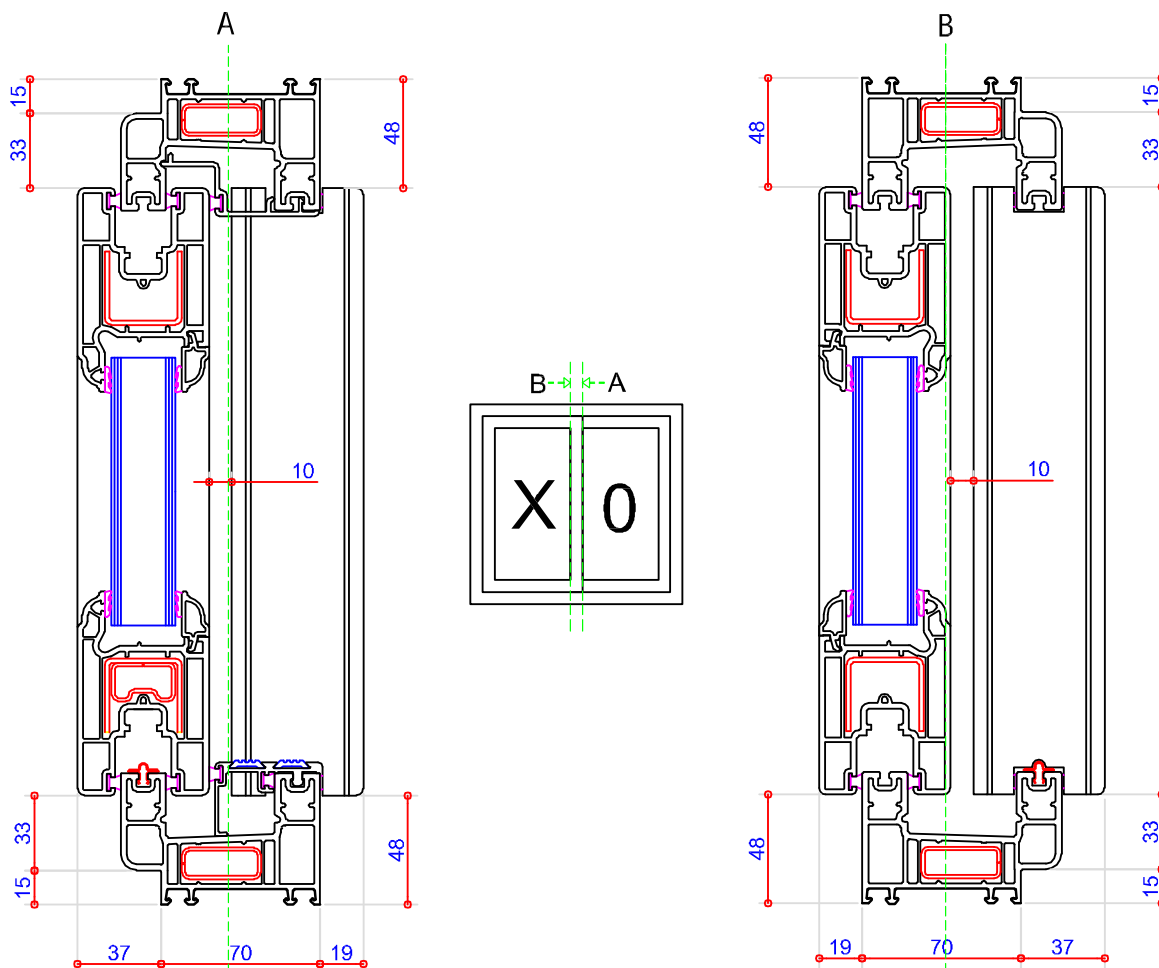


104324 1965mm 2365mm

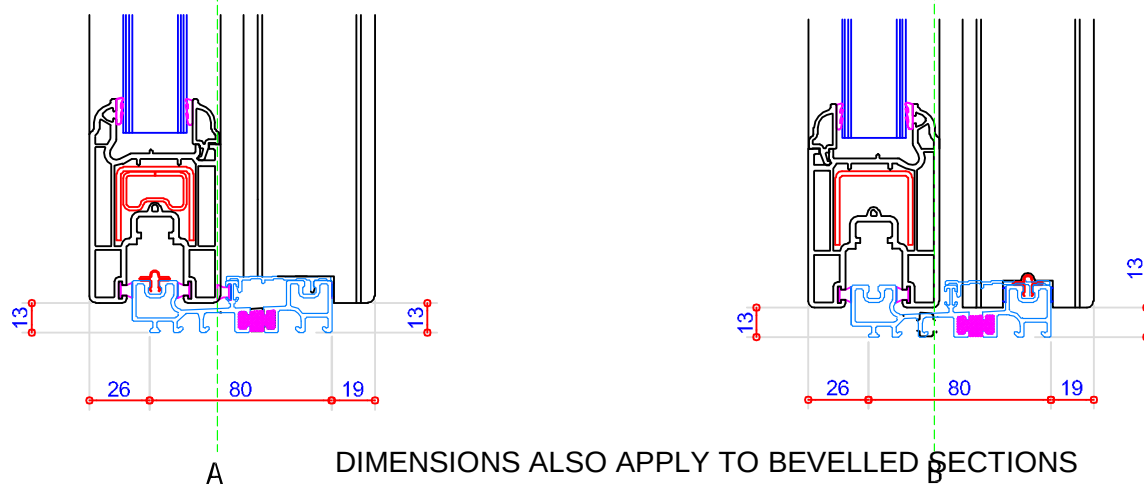


PROFILE COMBINATIONS 1 - XO

2



Alternative Aluminium Threshold 104324

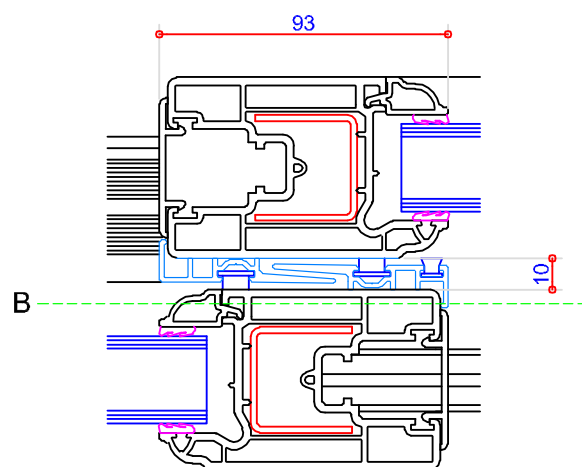
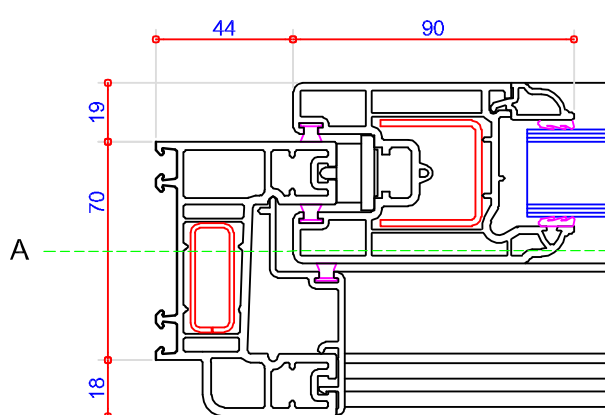
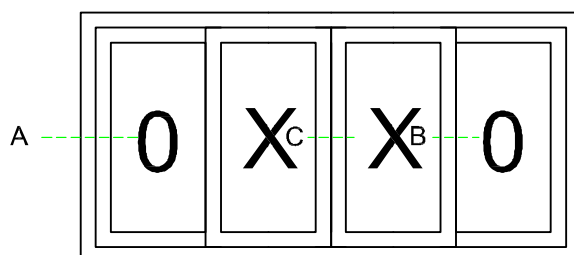


DIMENSIONS ALSO APPLY TO BEVELLED SECTIONS

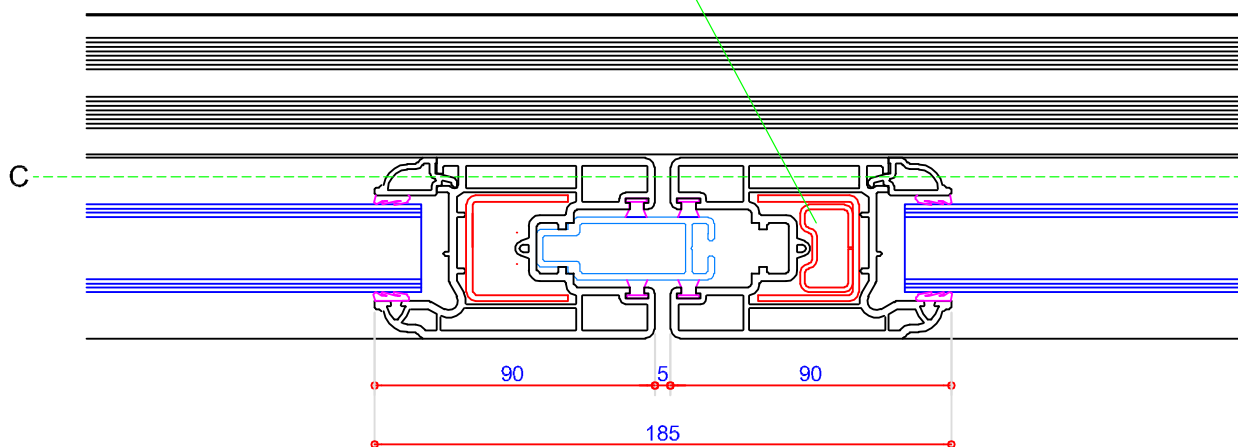


PROFILE COMBINATIONS 2 - OXXO

2



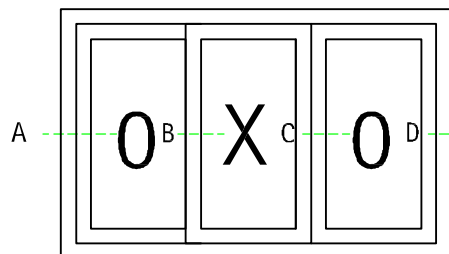
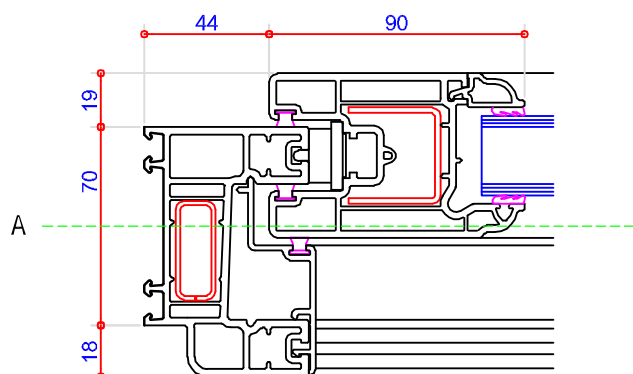
713119
Above & below
gear case on lock
side only



DIMENSIONS ALSO APPLY TO BEVELLED SECTIONS

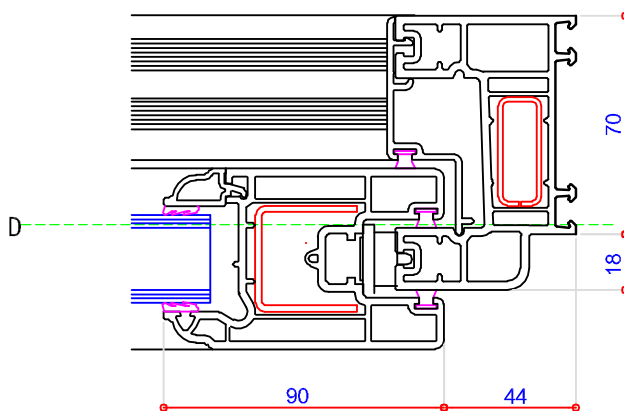
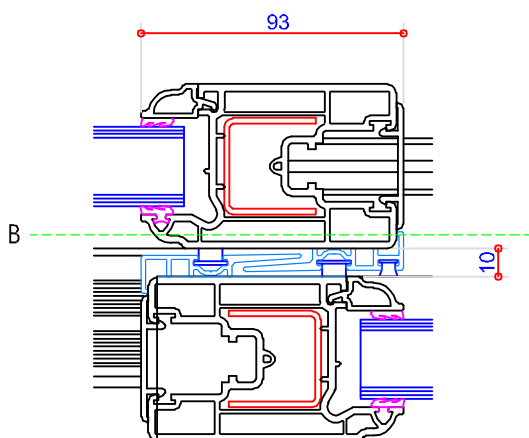
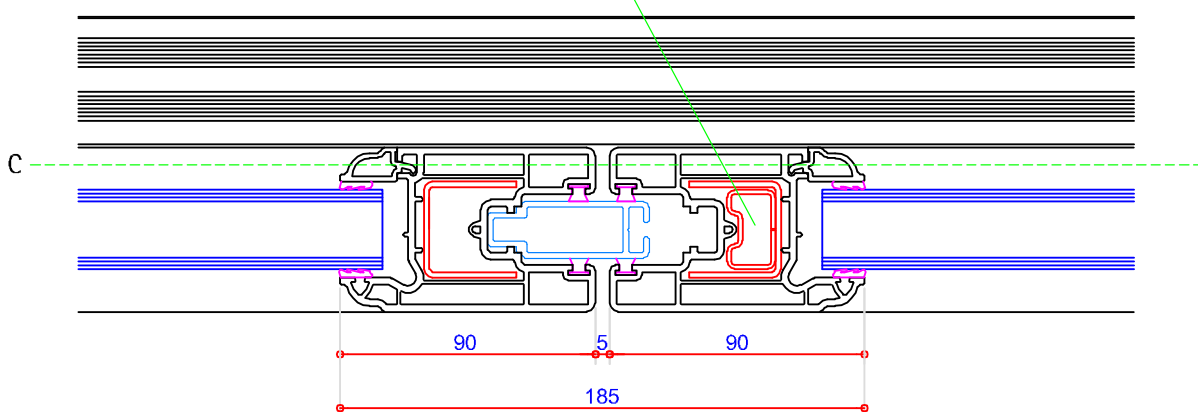


PROFILE COMBINATIONS 3 - OXO



2

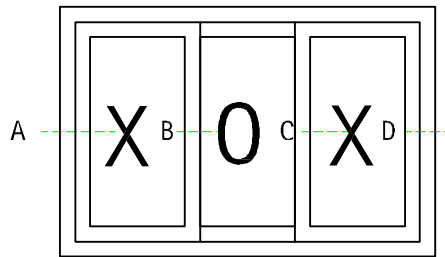
713119
Above & below
gear case on lock
side only



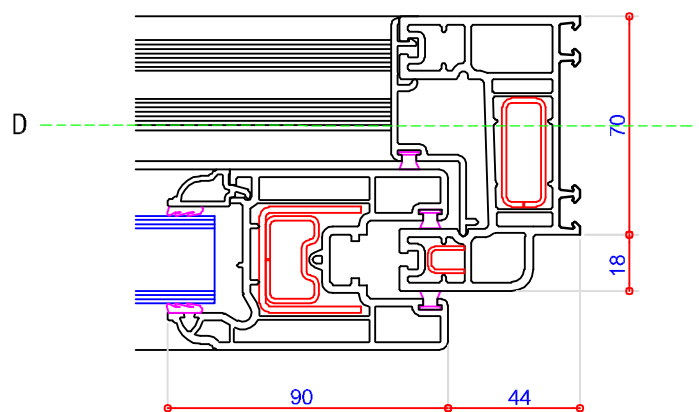
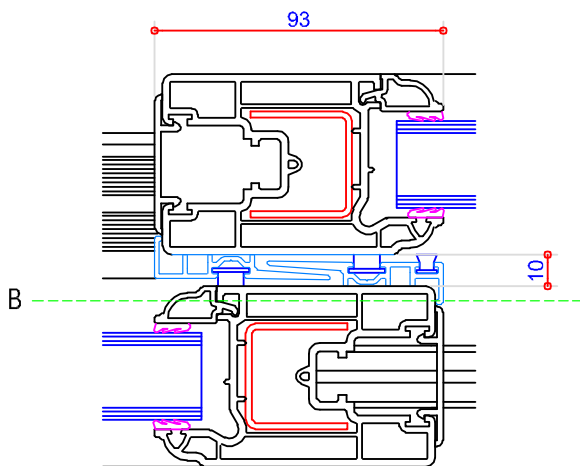
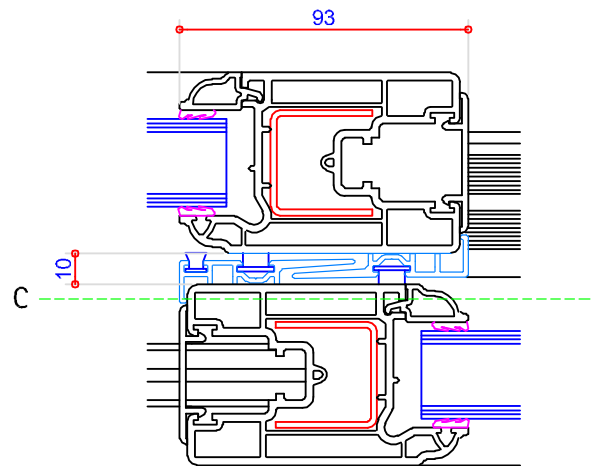
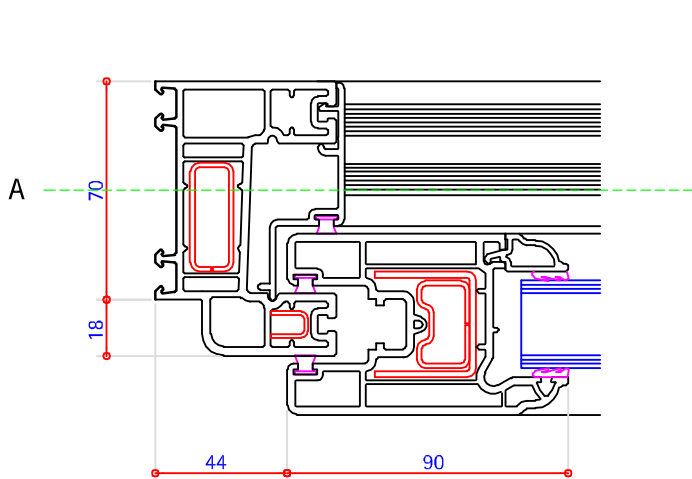
DIMENSIONS ALSO APPLY TO BEVELLED SECTIONS



PROFILE COMBINATIONS 4 - XOX



2

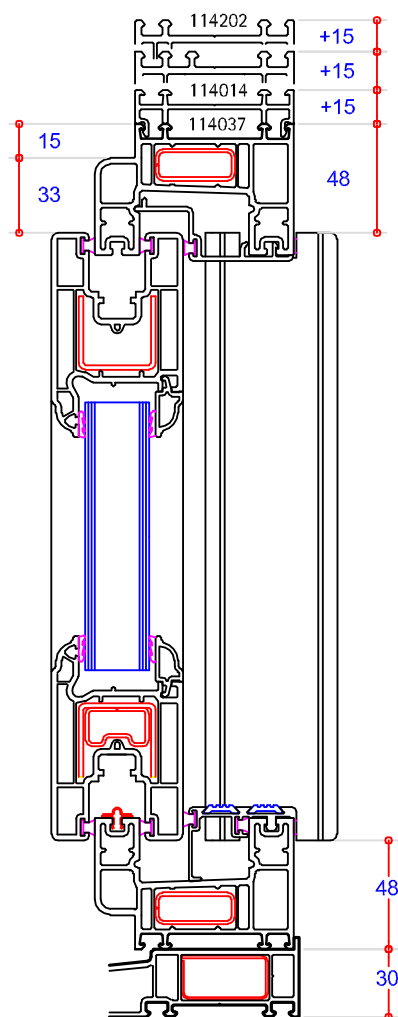


DIMENSIONS ALSO APPLY TO BEVELLED SECTIONS

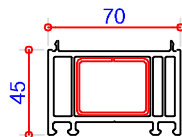


PROFILE COMBINATIONS 5 - CILLS & EXTENSIONS

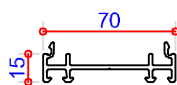
2



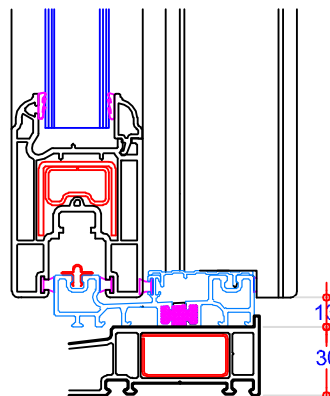
Optional 15mm, 30mm & 45mm extensions are available for increasing clearance.



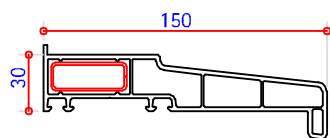
45mm Frame Extension 114202
Steel Box 38 x 30mm 113271



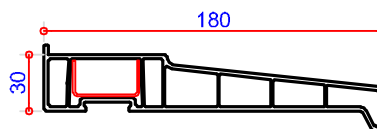
15mm Frame Extension 114037



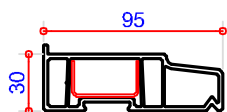
Optional cills are available were required



150mm Cill 110103
Steel Box 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

DIMENSIONS ALSO APPLY TO BEVELLED SECTIONS



MECHANICALLY JOINTING FRAMES

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

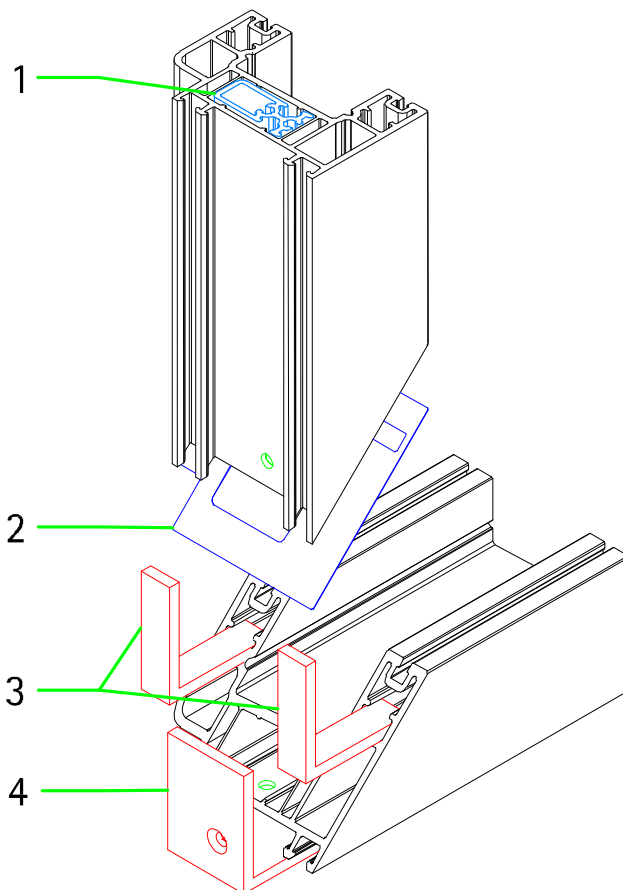
Ensure 115112 reinforcement has been inserted into the outer frame profile.

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.



2

