



Omega designs, manufactures and installs aluminium and PVC windows, doors, bi-fold doors, frames and patios in a wide variety of colours and configurations.

Our range of aluminium products is suitable for all types of residential and commercial applications and comes in strong and attractive slim-line profiles. We offer the complete range of windows, doors, bi-folds and patio doors, all designed whilst remaining practical and aesthetically pleasing to look at.

## **Alitherm Plus Door**

The Alitherm Plus door system is suitable for domestic and medium duty applications

- Outer frame (**ETD015**) with scotia detail
- Optional low threshold (**ETD196**) ramps ETD198 & EUD03 supplied as standard
- Open in door sash (**ETD024**), square profile
- Open out door sash (**ETD025**), square profile
- 28mm Chamfered bead (**ETC164**) – internally beaded
- Open in Midrail (**ETD030**), open out Midrail (**ETD033**)
- Standard height of midrails 900mm inc cill, 875mm without cill
- Single doors defaulted to open in, French doors open out
- Restrictors fitted to all OPEN OUT doors
- All doors to have lever/lever handles as standard
- Trickle vents to be put in a 42mm frame extension (**ETC515**)
- 150 cills (**ETC157**), cut flush to the frame widths, i.e. no horns
- Combination frames are split & coupled together using (**ETC517**)
- French doors with side screens are split and coupled using (**ETC517**)
- Full height side screens matched to door profile (**ETD015**)
- Full height side screen frames next to open out doors are externally beaded
- Full height side screen frames next to open in door are internally beaded
- Fanlights required above doors are split & coupled using ((**ETC517**))
- Average U-value 1.9 W/m<sup>2</sup>K (28mm with 1.2 centre pane)
- Panels are ESP200 Polystyrene with a 1.2mm Aluminium Skin to both the inner and outer face

## Size Restrictions

### Single Doors

- Max width: 900mm
- Max height: 2400mm
- Min height: 1550mm – Lower size possible but locking points will be lost
- Max weight: 80kg

### Double Doors

- Max width: 1800mm
- Max height: 2400mm
- Min height: 1650mm - Lower size possible but locking points will be lost
- Max Weight: 160kg (80kg per leaf)

## Weather Performance (BS6375-1)

- BS EN 1026: 2000 Air Permeability: 600 Pa
- BS EN 1027: 2000 Water tightness: 600 Pa
- BS EN 12211: 2000 Resistance to Wind Load: 1200 Pa

## Lead Times

- Lead times vary depending on the colour of the aluminium you select
  - Stock colour white (KL009) is available in the shortest time
  - KL and Sensation colours are on slightly longer lead times
  - Dual colours are on the longest lead time

**Information on Colour**

- Below is our standard range of KL colours. Please be aware that these colours come in different surface finishes as indicated below. These colours can be applied the same to both sides of the profile or you can mix and match and choose different colours for inside and out, referred to as dual colour.



- We also offer a range of colours called "Sensation", these combine unique colours and textures. Below is just a sample, please ask to see the full range.



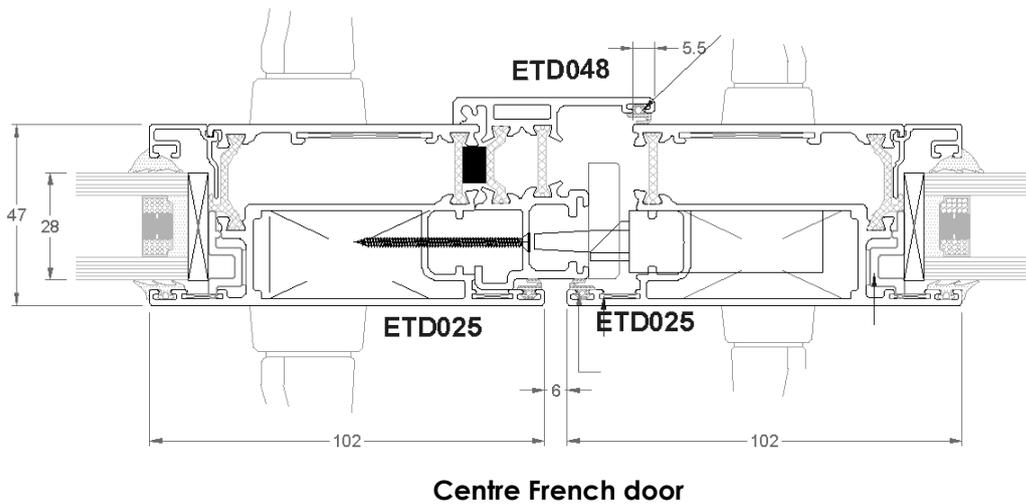
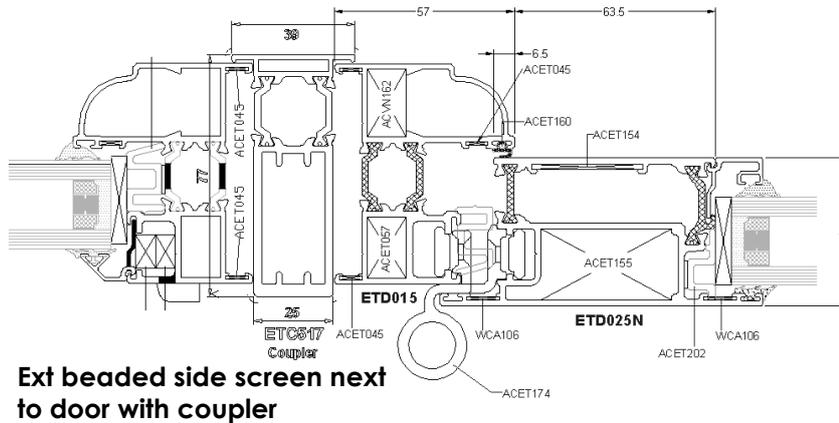
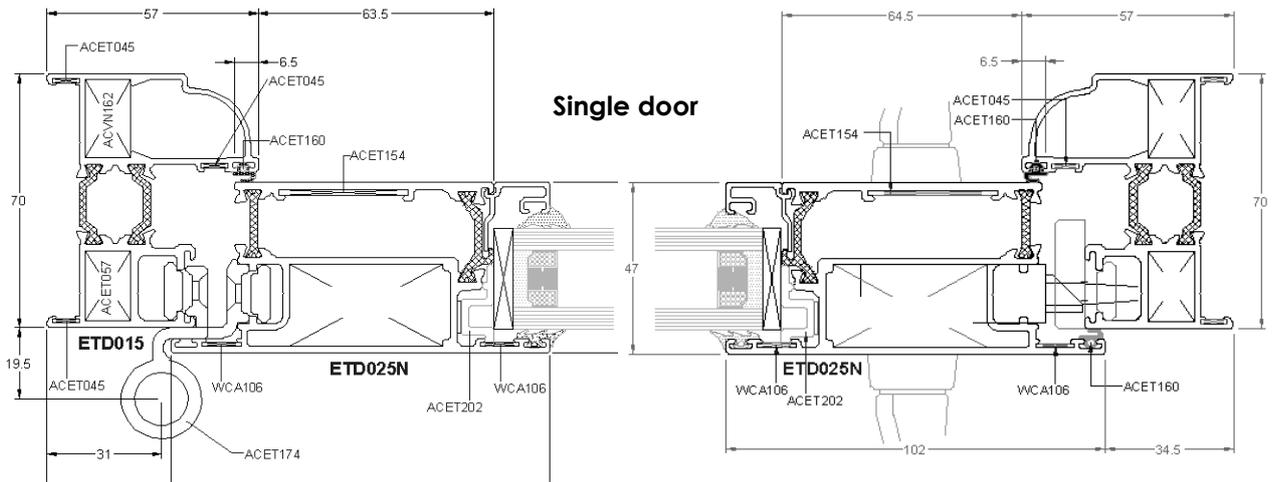
- We also offer a range of non-textured wood effect colours, please ask to see the full range of finishes, again these can be mixed and matched with any of the other colours above. Note aluminium wood effects do not match Upvc wood effect finishes.



**Please note that these colours are intended as a guide only. The paint finish is guaranteed for 25 years except in hazardous environments, e.g. within 500 metres of the high tide line, swimming pools and marine environments. In these cases you need to apply to us/Smarts to confirm the exact length of guarantee.**

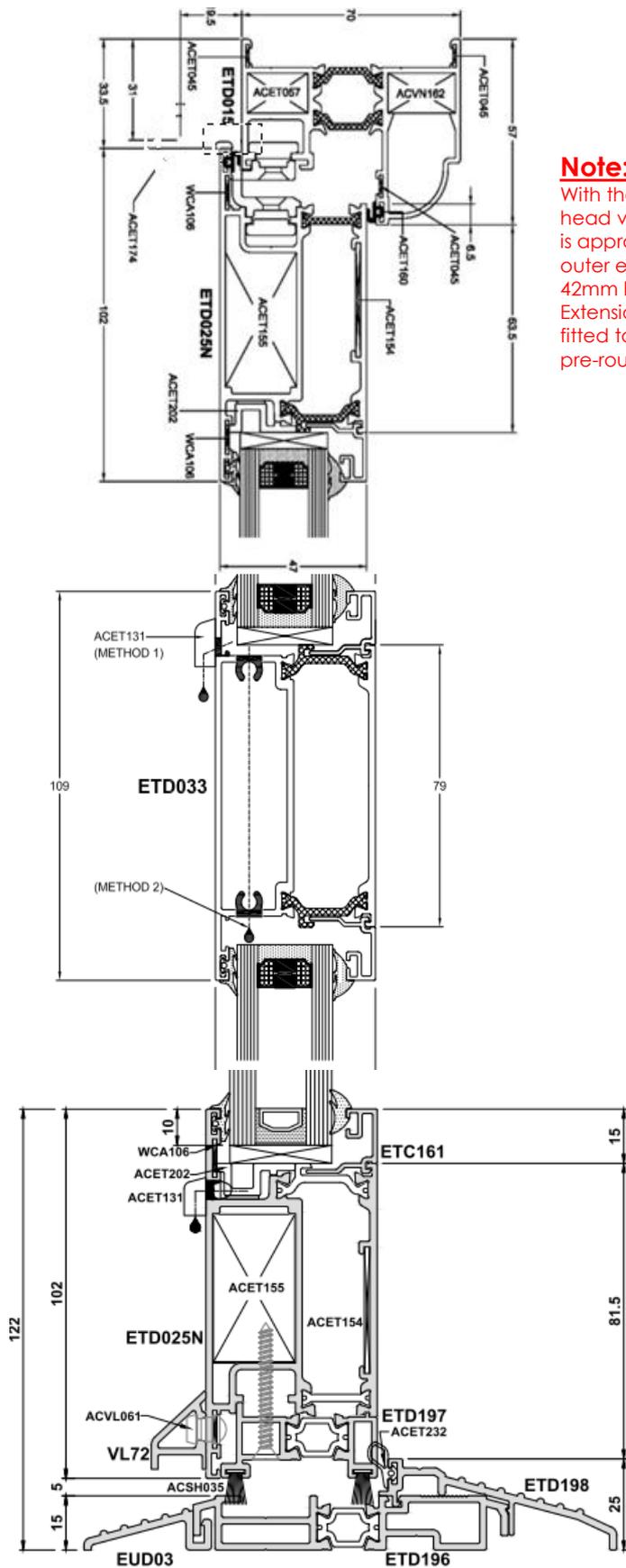
**Cross Sectional Drawings**

**Open Out**

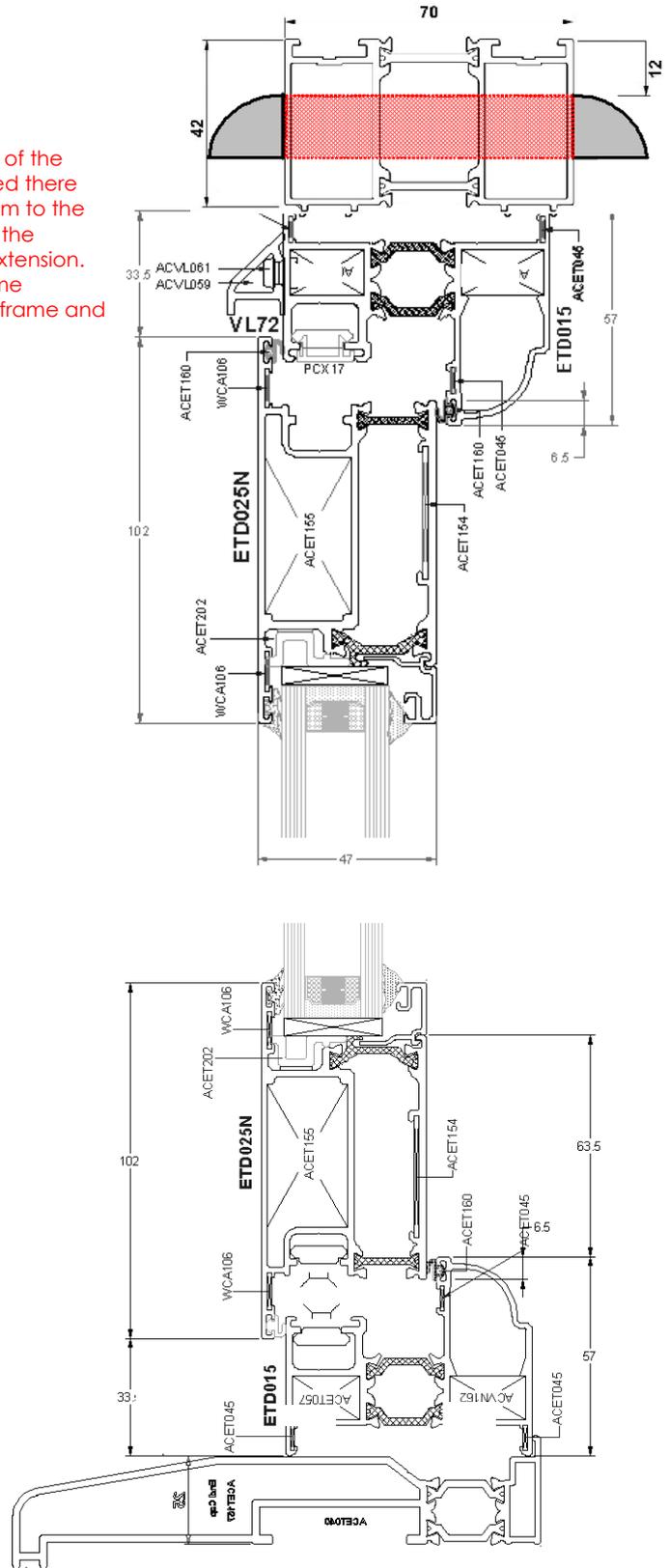


so you think all window companies are the same...think again!

**Alitherm Plus Door**

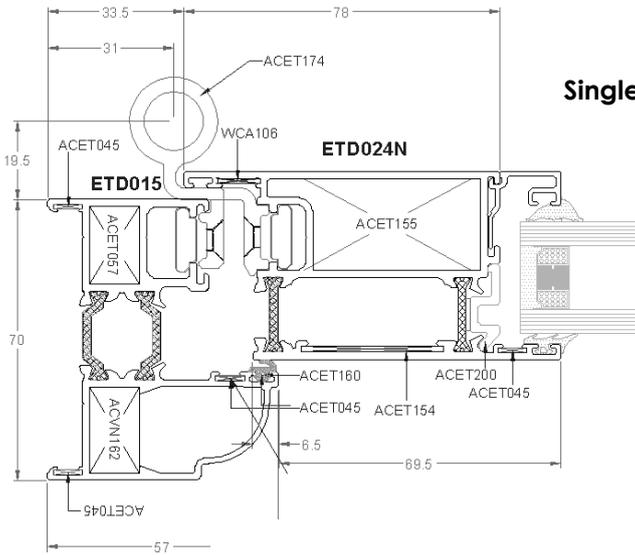


**Note:**  
With the hood of the head vent fitted there is approx. 12mm to the outer edge of the 42mm head extension. Extensions come fitted to outer frame and pre-routed.

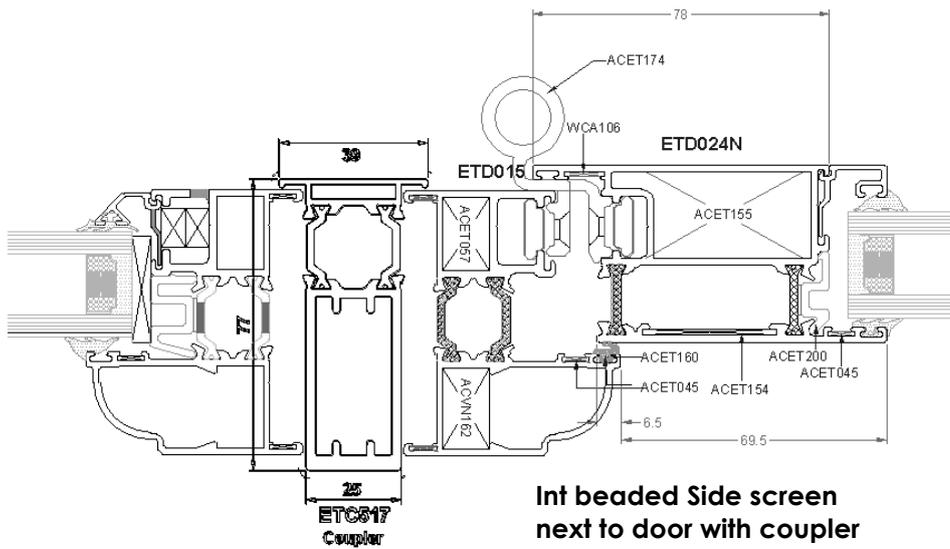
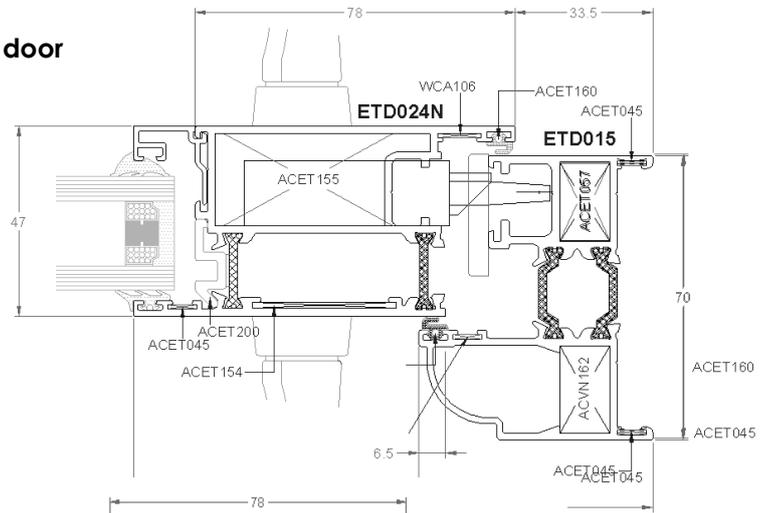


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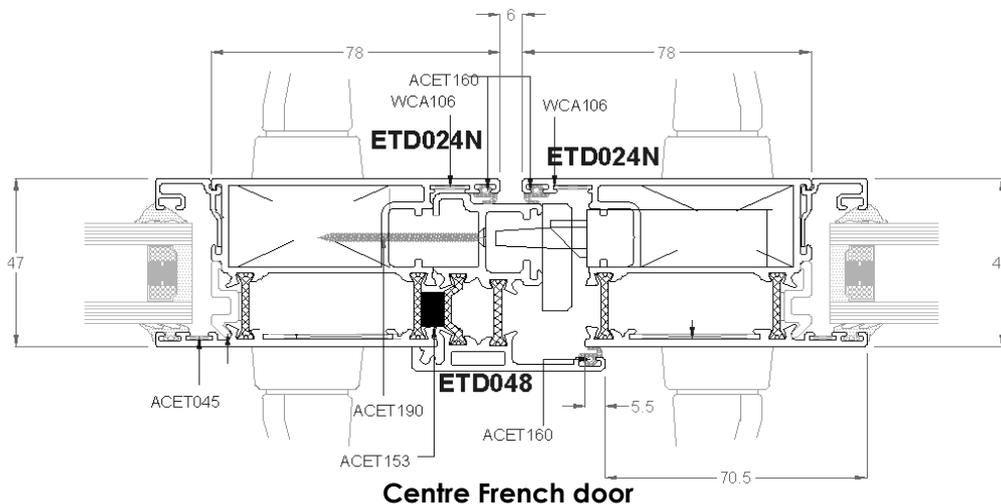
**Open In**



**Single door**



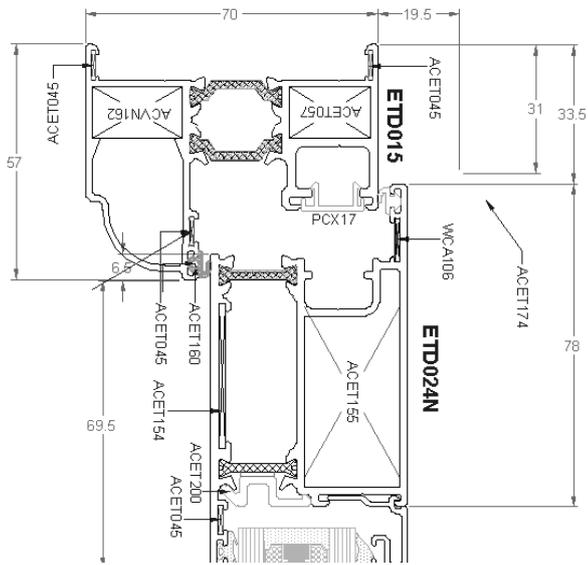
**Int beaded Side screen  
next to door with coupler**



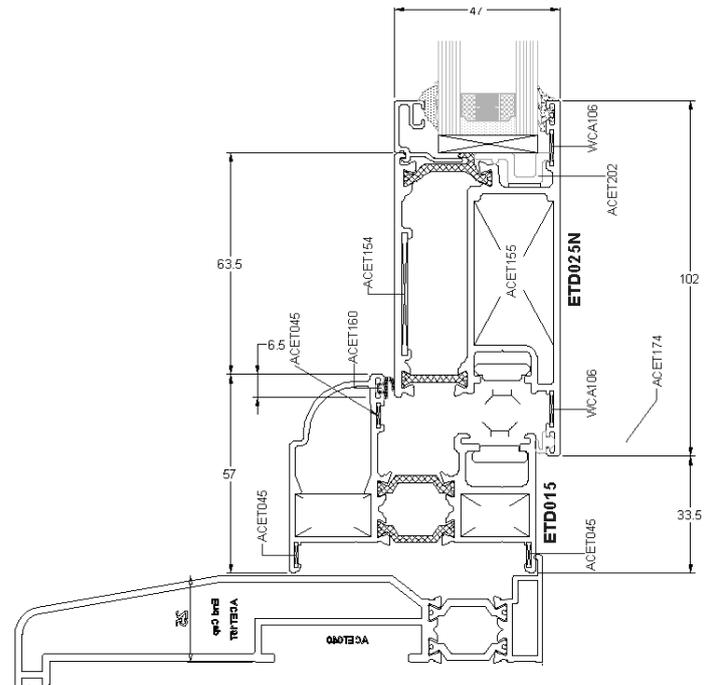
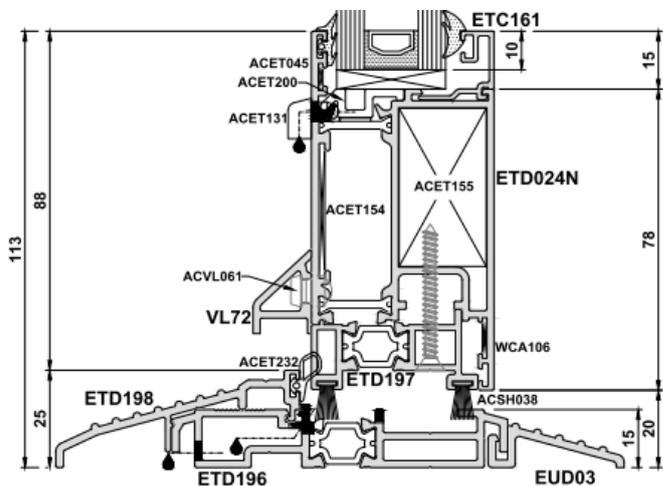
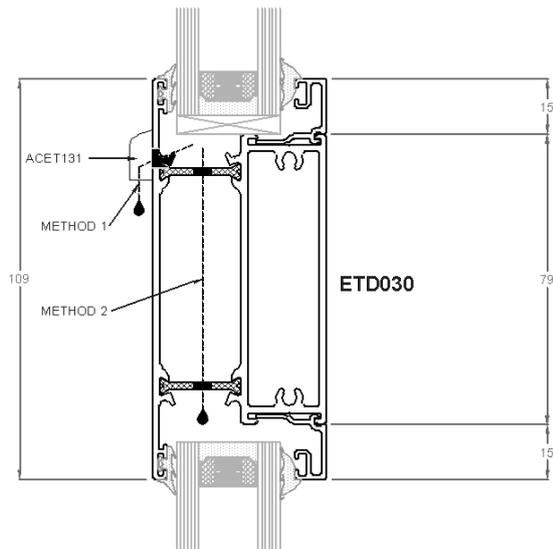
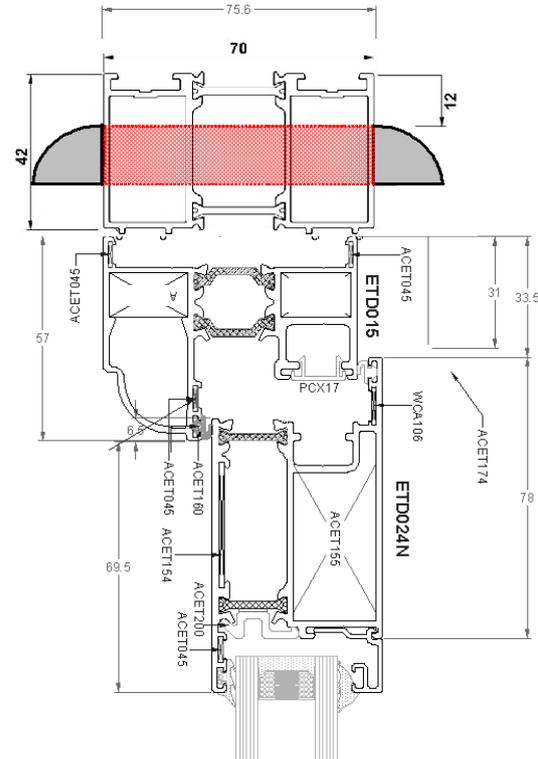
**Centre French door**

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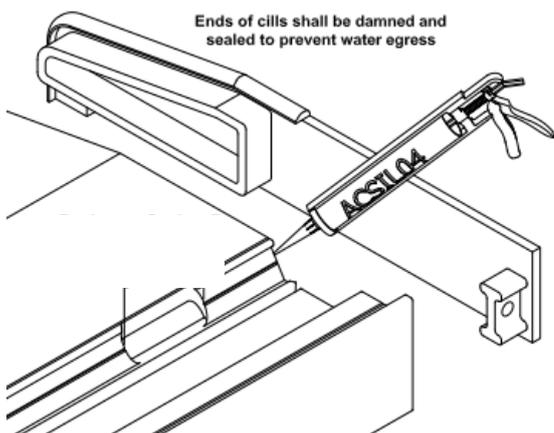
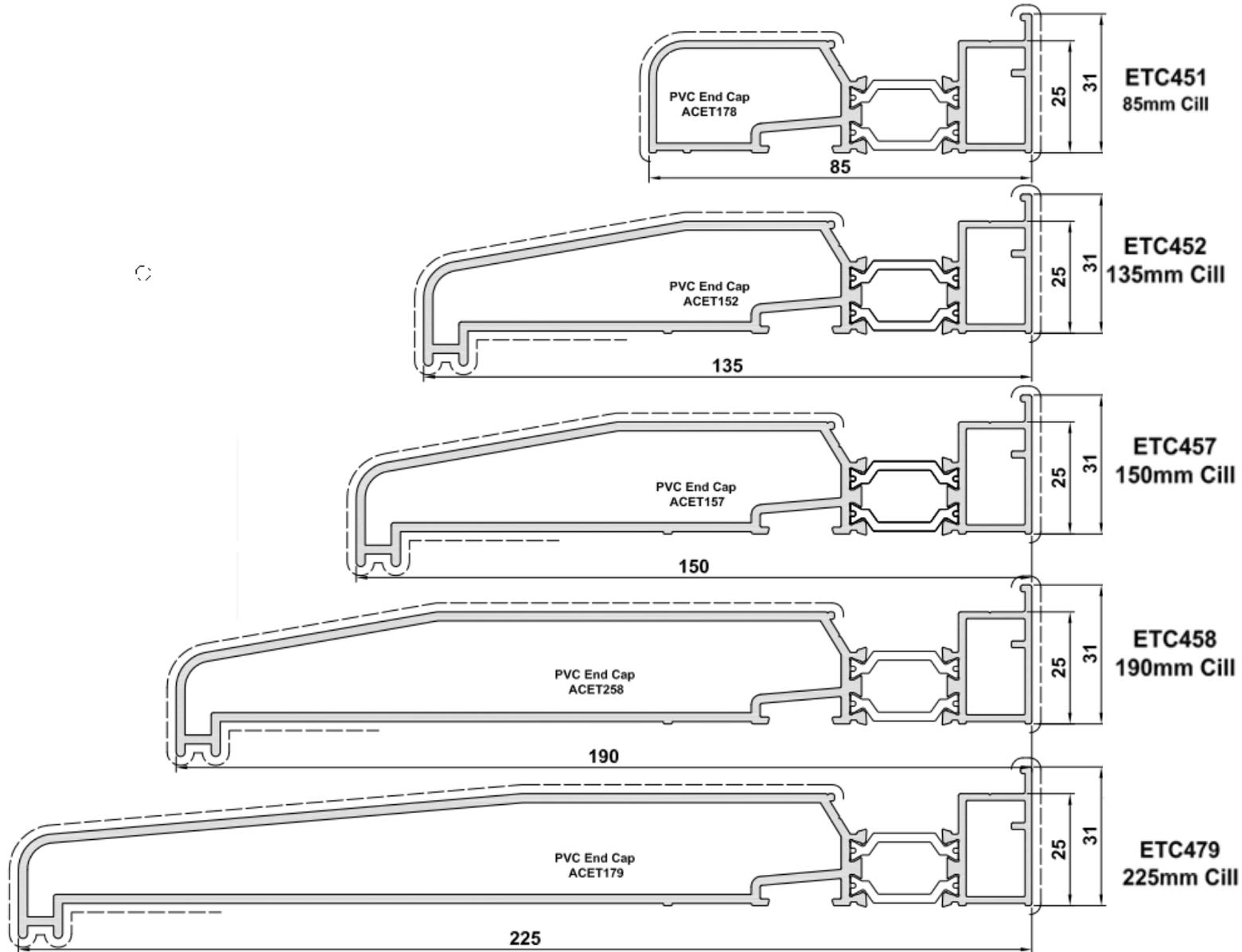
**Alitherm Plus Door**



**Note:**  
With the hood of the head vent fitted there is approx. 12mm to the outer edge of the 42mm head extension. Extensions come fitted to outer frame and pre-routed.



**Cills / Mitred Cills**

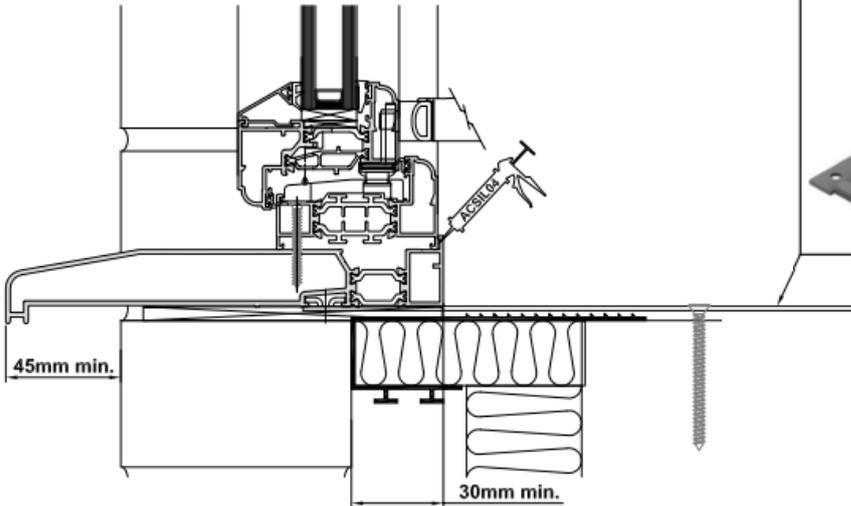


**Please Note**

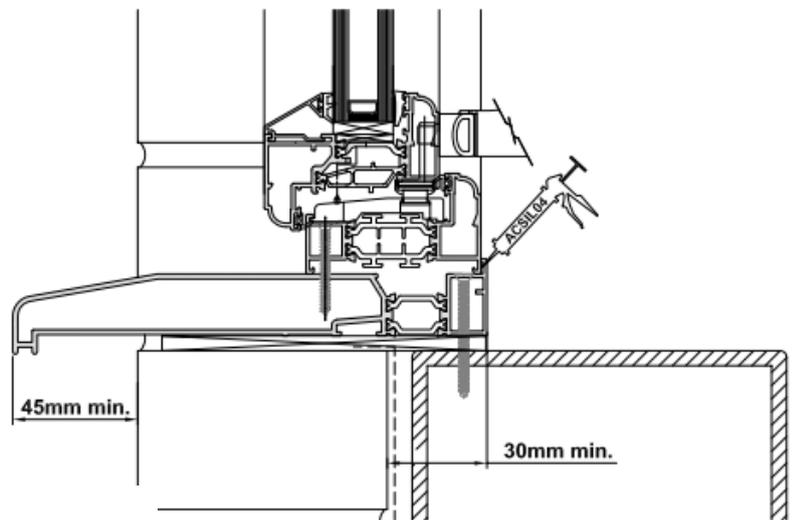
All cills are factory drained and should have cill end caps fitted prior to installation, sealing the cill end caps to the cill with silicone to prevent water egress (do not cut the end caps and fit after installation as this will result in water penetration and invalidate guarantee).

End caps are PVC and not colour matched to frames. White and black available.

**Example Lug Fixing Detail**

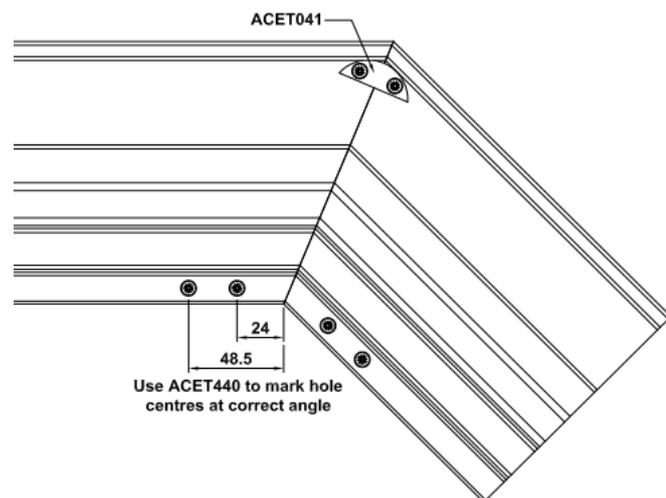
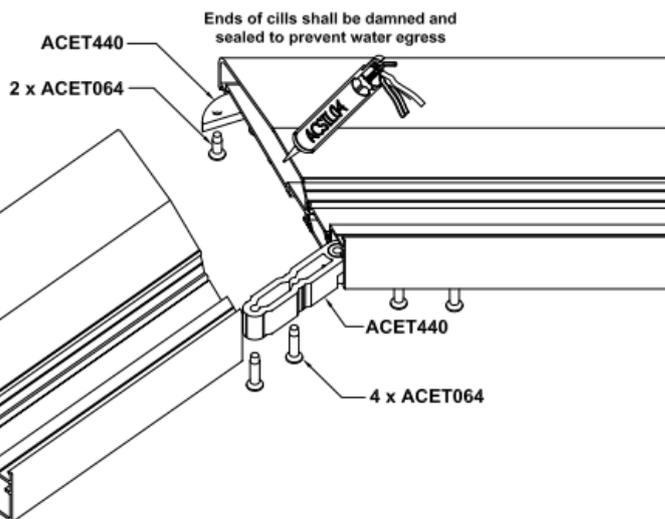


**Example Direct Fixing Detail**



**Please Note**

Cill fixing lugs need to be ordered separately they are not included with cills – pack size: Qty 100



## Installation of Aluminium Windows and Doors

Care should be taken to ensure that you make allowance for the expansion and contraction of the frame, the aperture tolerances and the thickness of any silicone or mortar bed at the sub-sill. The following table should be used as a guide.

Material	Recommended deduction for width or height of structural opening			
	Up to 1.5 m	From 1.5 m to 3.0 m	From 3.0 m to 4.5 m <sup>A)</sup>	Over 4.5 m <sup>A)</sup>
GRP	5	10	15	15
PVC-U – white	10	10	15	20
PVC-U – non-white	15	15	22	28
Timber	10	10	10	15
Steel	8	10	12	15
Aluminium	10	10	15	20

*NOTE 1* These deductions are from the total width or height, and are not “per side”.

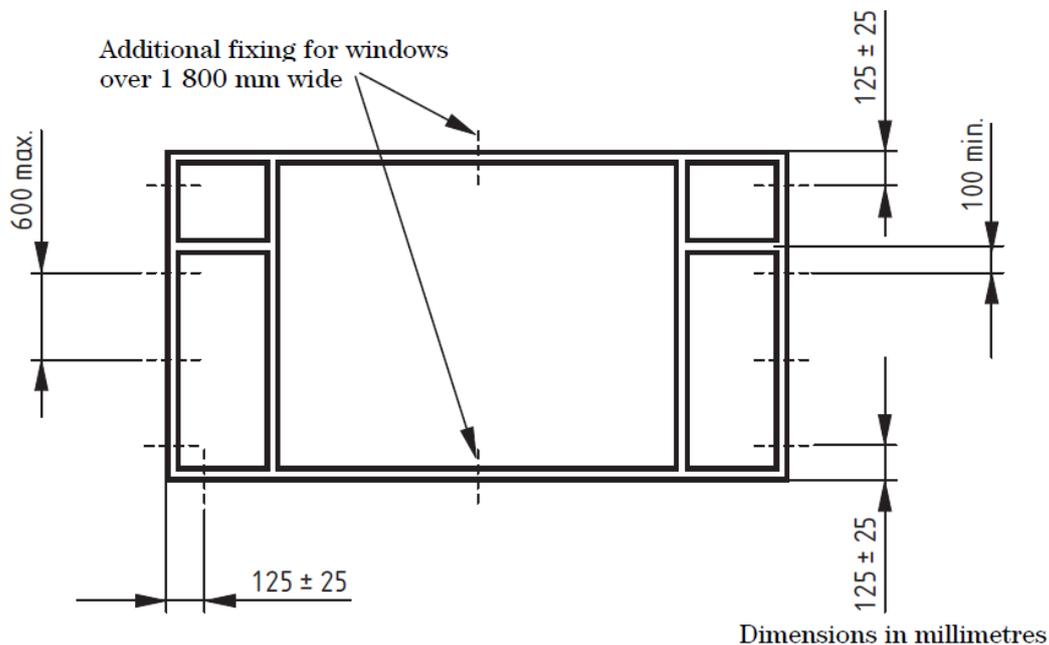
*NOTE 2* The gap required for effective polyurethane foam fixing at the head is 10 mm to 15 mm.

*NOTE 3* When fitting aluminium or steel frames into existing timber sub-frames, deduct 4 mm.

<sup>A)</sup> Intermediate expansion joints might be needed when the width or height exceeds 3 m.

When fixing the frames ensure that all four sides are secured as follows.

- Corner jamb fixings should be between 100 mm and 150 mm from the external corner.
- No fixings should be less than 100 mm from the centre line of a mullion or transom.
- Intermediate fixings should be at centres no greater than 600 mm.
- There should be a minimum of two fixings on each jamb.



- On windows and door sets over 1800 mm wide, central head and sub-sill fixings should be provided.
- Cills are fixed in the correct locations (i.e. not through the drainage chamber)
- Full length end caps are fitted and sealed to all cills

When building up components on coupled frames, care should be taken to keep coupling joints equal, and frames both aligned and plumb. Coupled assemblies should be fastened together in accordance with the manufacturer's instructions. Where the coupling is structural, the system supplier's recommendations should be followed.

Care should be taken to ensure windows and door sets are installed plumb and square within the aperture, without twist, racking or distortion of any member in accordance with the manufacturer's recommended tolerances, to operate correctly after installation.

Installation packers should be used adjacent to fixing positions to prevent outer frame distortion during installation. Installation packers should be resistant to compression, rot and corrosion. They should span the full depth of the outer frame. The fixings should be tightened so that the frame is held securely against the packers. Over-tightening can lead to distortion and should be avoided. Some lugs need to be packed off the substrate to prevent distortion. Where enhanced security is required, additional packers might be necessary adjacent to hinge and locking points.

Insulating glass units, setting and location blocks, distance pieces, frame to glass and bead to glass gaskets, bead to frame air seals, corner sealing blocks, beads and bead end caps, bedding and capping sealants should be installed in accordance with BS 8000-7.

**Glazing**

Please ensure that you glaze the products in accordance with these guidelines.

Failure to glaze the products correctly, especially doors will lead to operational problems.

Any site visits required to adjust doors that have not been glazed correctly will be chargeable.

