



## **Alitherm Plus residential doors**

Energy Rating C uValue 1.8Wm<sup>2</sup>k

## Alitherm Plus Door

- Outer frame 70mm (**ETD017**) with square detail (same profile all round)
- Optional low threshold (**ETD196**) ramps ETD198 & EUD03 supplied as standard
- Optional 47mm (**ETD012**) flat profile detail (ideal for use with Alitherm 47 windows)
- Open in door sash (**ETD024**), square profile
- Open out door sash (**ETD025**), square profile
- 28mm square bead (**ETC161**) – internally beaded
- Open in Midrail (**ETD030**), open out Midrail (**ETD033**)
- 3 x ACET250 Fully adjustable flag hinges (available in white, black, KL005)
- 4 x ACET250 hinges to doors over 2200mm high
- DV559 20mm frame extension fitted to hinge side of all OPEN IN doors as standard
- 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 available, fitted into a 42mm frame extension (**DV515**)
- 150 cills (**ETC157**), cut flush to the frame widths, i.e. no horns
- Combination frames are split & coupled together using (**ETC357**)
- French doors with side screens are split and coupled using (**ETC357**)
- Full height side screens matched to door profile (**ETD017/ETD012**)
- 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 (**ETC357**)
- Average U-value 1.8 W/m<sup>2</sup>K (28mm with 1.1 centre pane) **Triple glazed is not available**
- Panels are ESP200 Polystyrene with a 1.2mm Aluminium Skin to both the inner and outer face
- Optional Pas24 or Secure by Design - includes a 3\* cylinder, hinge protectors & double glazed unit incorporating 6.8mm Laminated to one pane

## Size Restrictions

### Single Doors

- Max width: 1067mm Frame size
- Max height: 2567mm Frame size
- Min height: 1550mm – Lower size possible but locking points will be lost
- Max weight: 100kg

### Double Doors

- Max width: 2074mm Frame size
- Max height: 2567mm Frame size
- Min height: 1650mm - Lower size possible but locking points will be lost
- Max Weight: 200kg (100kg per leaf)

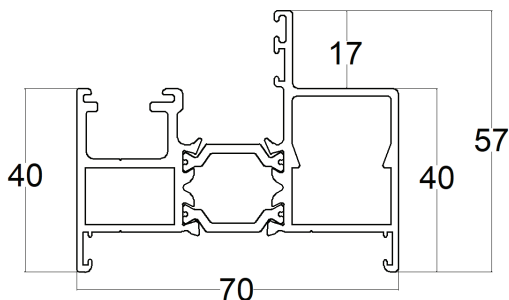
## Weather Performance (BS6375-1)

- 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

## Cross Sectional Drawings

ETD017 Outerframe

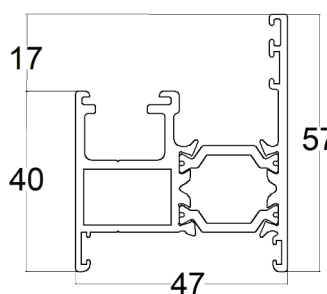
lx value 28.6



Shown open out, reverse for open in

ETD012 Outerframe

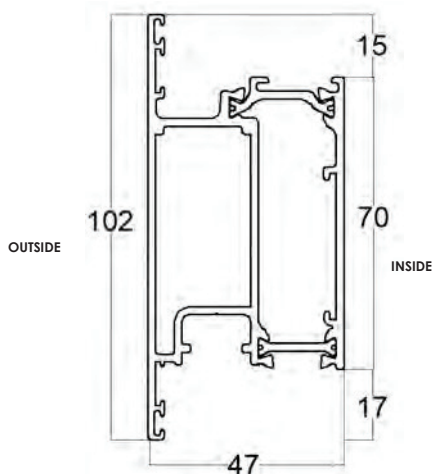
lx value 12.5



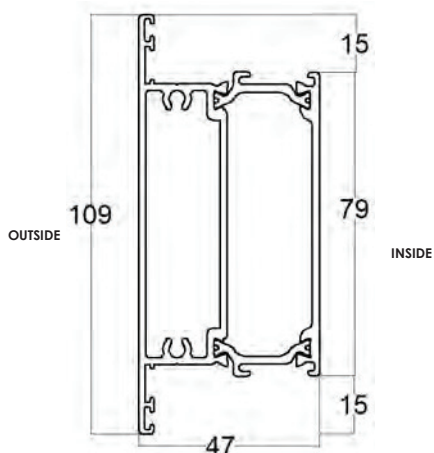
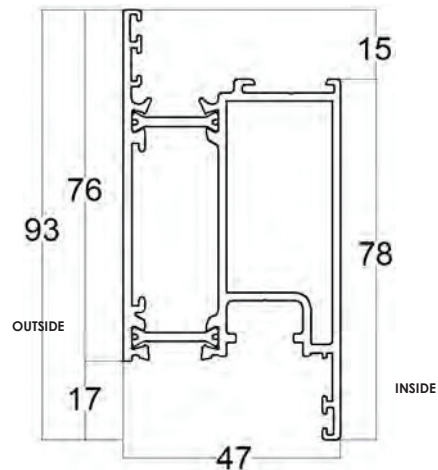
Shown open out, reverse for open in

Note:  
If matching  
Heritage 47  
windows  
request the  
ETD012 door  
frame

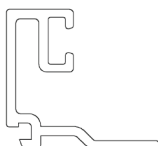
ETD025 Open Out sash



ETD024 Open In sash

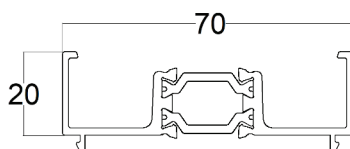


ETC161 28mm square double  
glazed bead

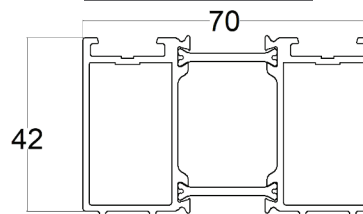


Note: triple glazing is not available

DV559 70 x 20mm  
Frame Extension

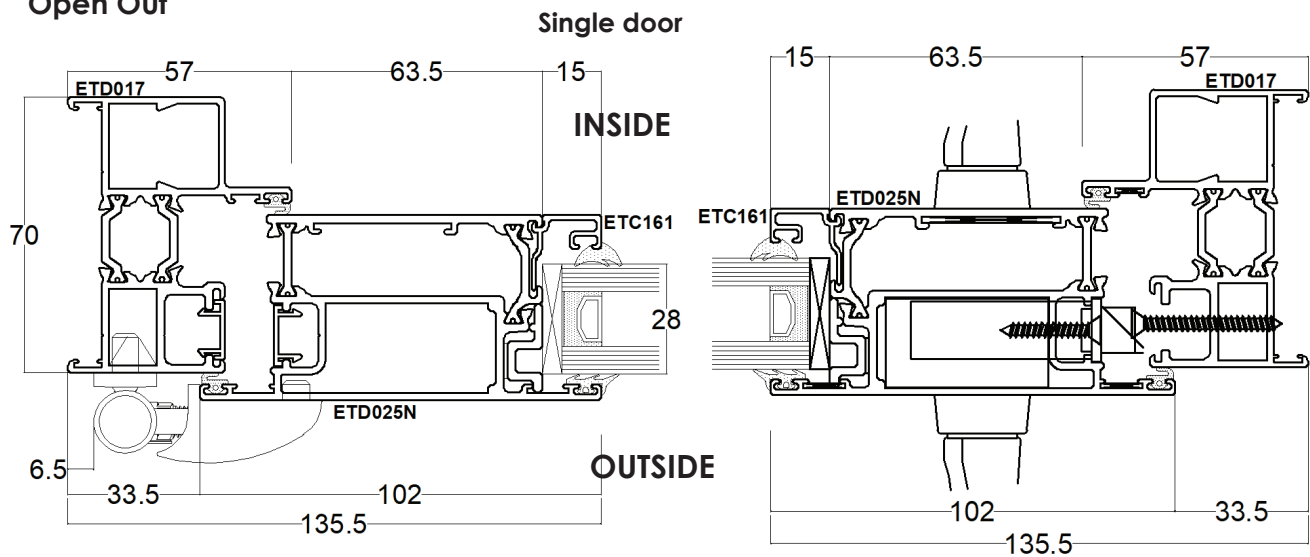


DV515 70 x 42mm  
Frame Extension

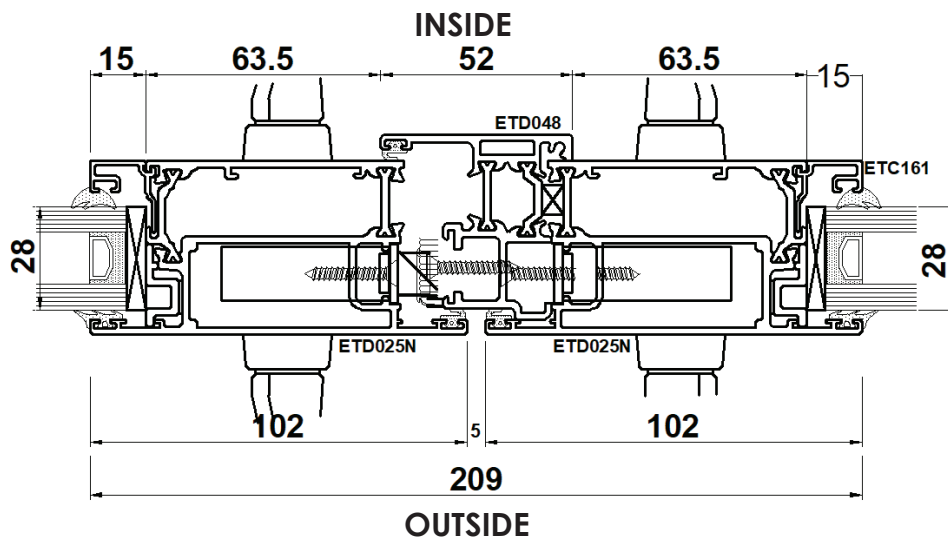


## Cross Sectional Drawings

### Open Out



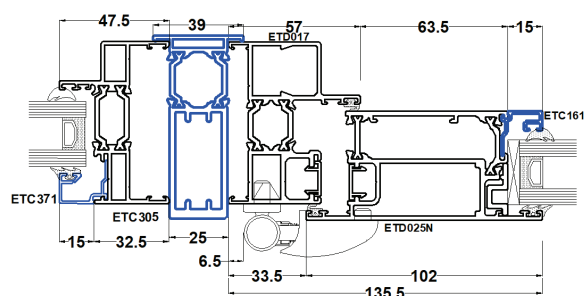
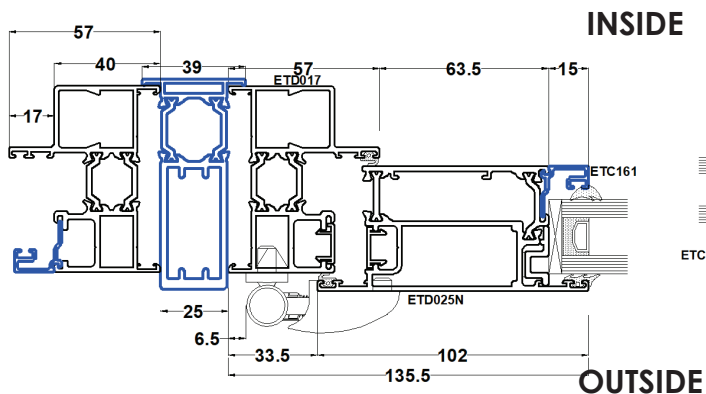
### Centre French door



ETC357 180 - Coupler (25mm deduction)  
77mm x 25mm

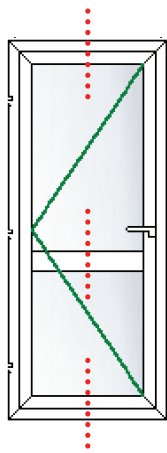
Fixed Externally beaded side screen (ETD017) next to door with ETC357 coupler

Fixed pane Alitherm 300 frame next to door with ETC357 coupler



Note: if Alitherm 47 frames are used,

Open Out



**A**

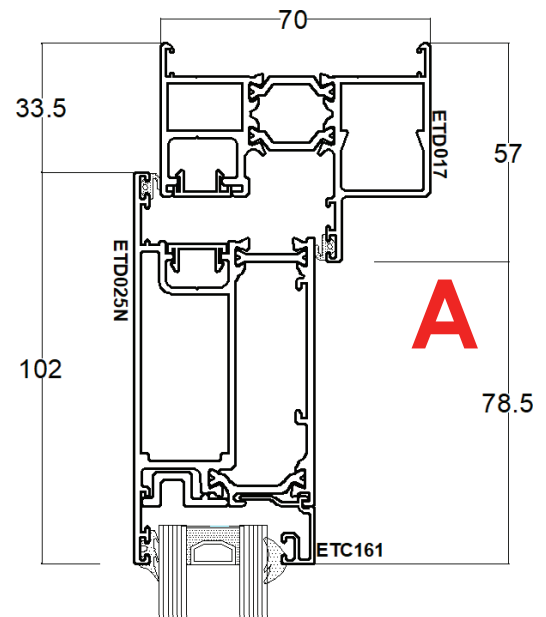
**B**

**C/D**

Internally beaded door - cross section detail of  
(A) Head  
(B) Transom  
(C) Cill standard frame detail  
(D) Low Ali threshold option

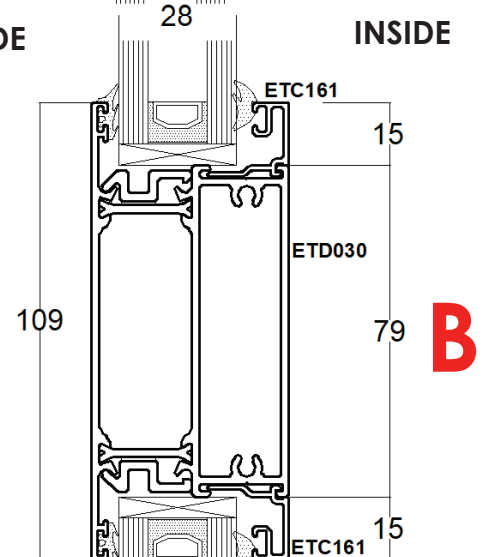
Document M compliant low ali threshold  
ETD197 sash packer  
ETD196 Low Ali threshold  
EUD03 external ramp  
ETD198 internal ramp

Note: When using an external cill with the low ali threshold you may have to adapt the cill upstand on site to suit your required finish.  
If you have a door & side screen the coupler will also need adapting to suit.

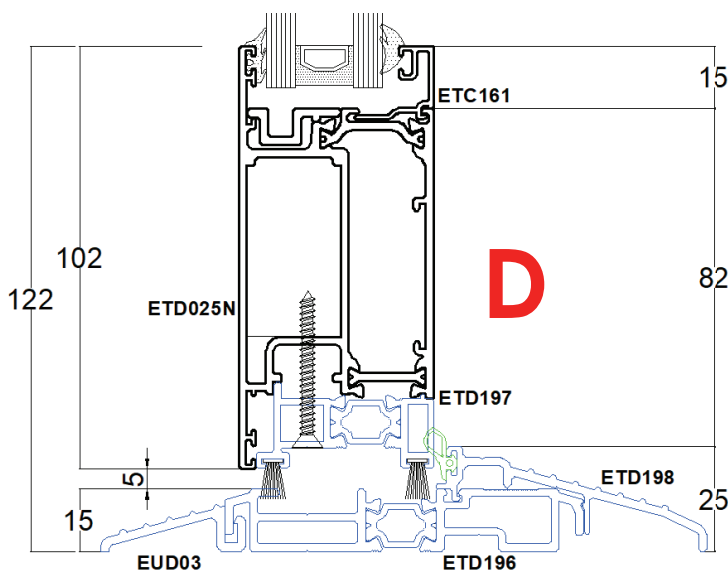


OUTSIDE

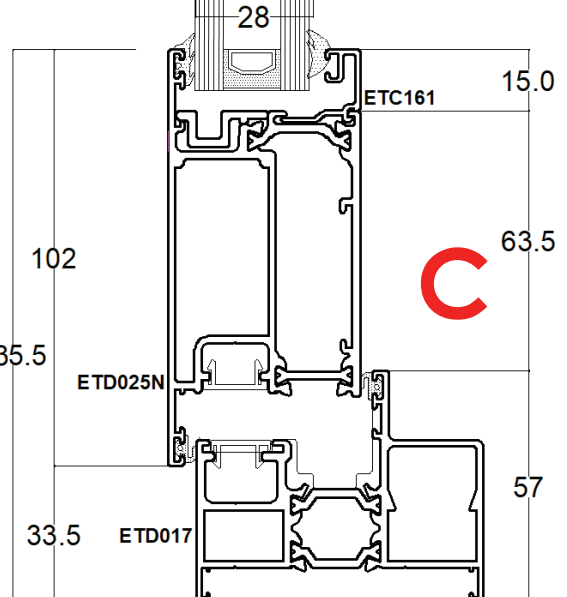
INSIDE



**B**



**D**

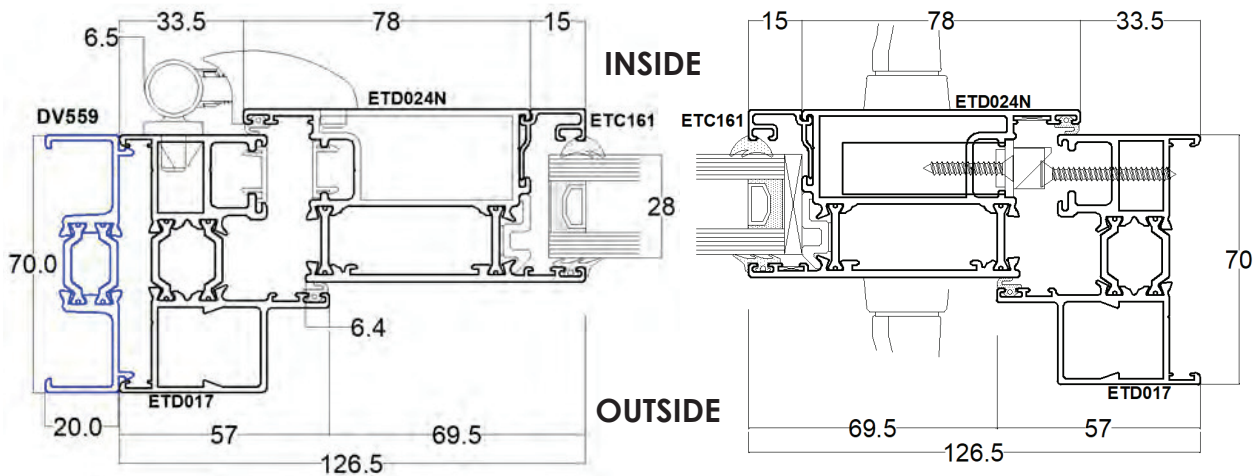


**C**

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

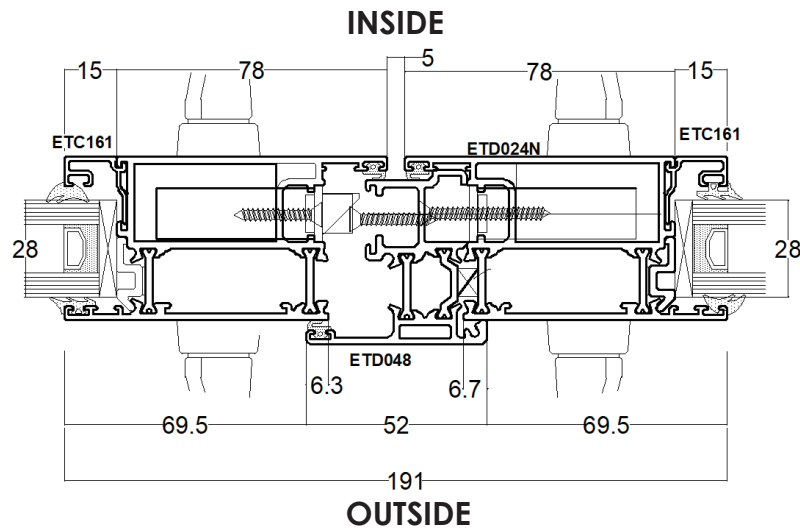
**Open In**

**Single door**



**Note: DV559 20mm frame extension to hinge side**

**Centre of French door**

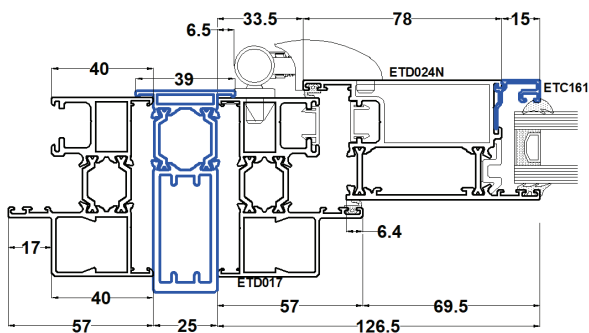


ETC357 180 - Coupler (25mm deduction)

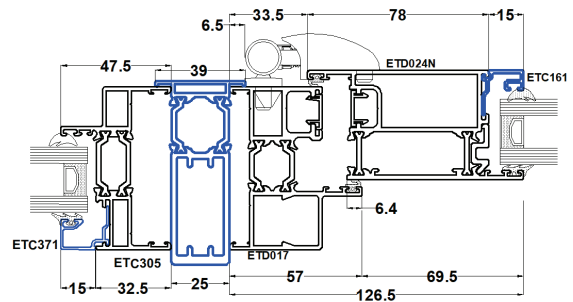
Fixed internally beaded side screen (ETD017) next to door with ETC357 coupler

Fixed pane Alitherm 300 frame next to door with ETC357 coupler

**INSIDE**



**OUTSIDE**

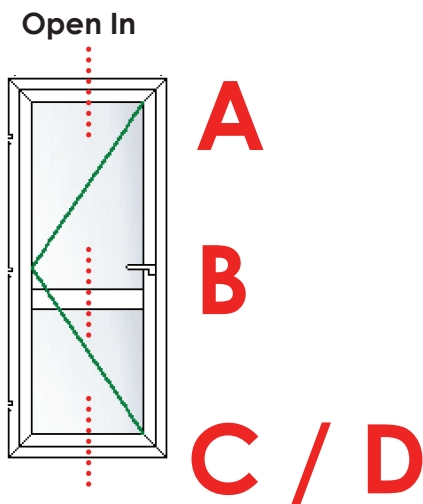


**Note: if Alitherm 47 frames are used, use the ETD012 Door frame**

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



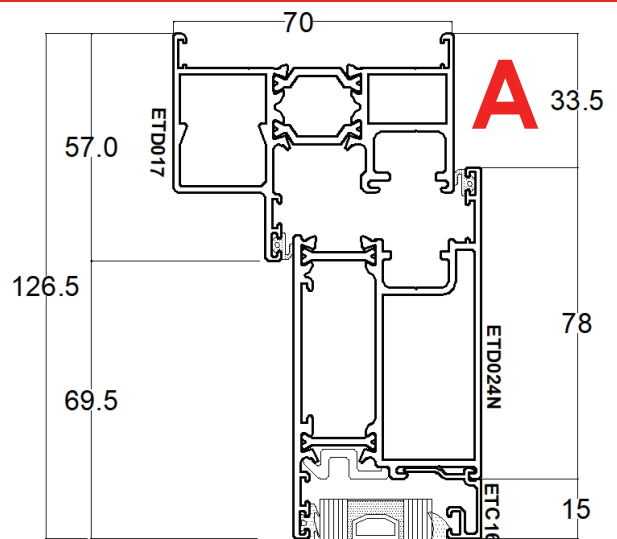
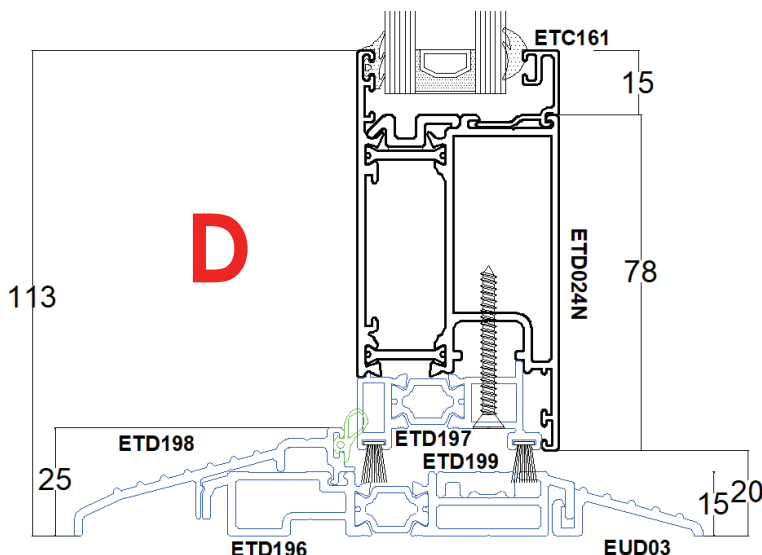
## My Ali Framing Solutions Alitherm Plus Residential & French doors



Internally beaded door - cross section detail of  
(A) Head  
(B) Transom  
(C) Cill standard frame detail  
(D) Low Ali threshold option

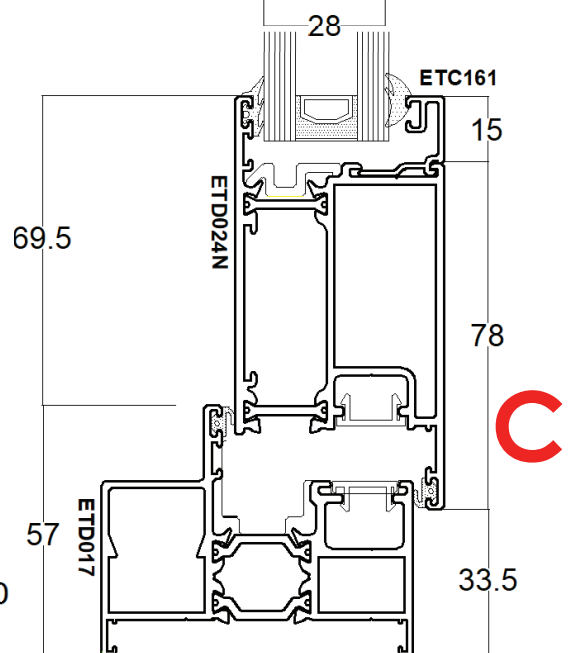
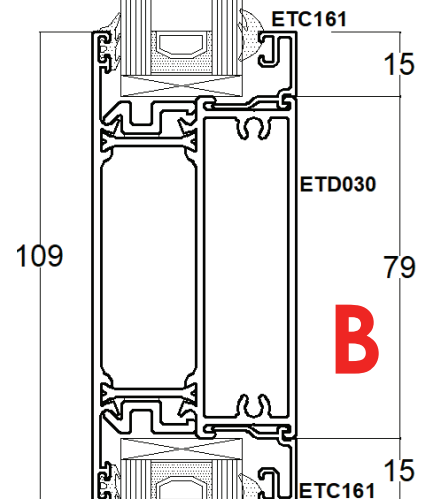
Document M compliant low ali threshold  
ETD197 sash packer  
ETD199 infill (open in doors only)  
ETD196 Low Ali threshold  
EUD03 internal ramp  
EU198 external ramp  
ETD198 External ramp

Note: When using an external cill with the low ali threshold you may have to adapt the cill upstand on site to suit your required finish.  
If you have a door & side screen the coupler will also need adapting to suit.



OUTSIDE

INSIDE

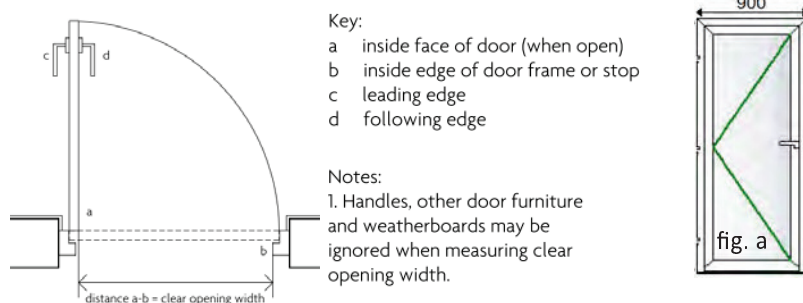


## Document M — access to and use of buildings (Dwellings)

For a residential door to comply with Document M of the building regulations it needs to have a clear opening of **775mm** and should have an accessible threshold.

Below are the minimum frame/mullion widths to achieve the clear opening.

**Note:** Sizes are subject to door adjustment. Sizes do not include any frame extensions



To work out frame width to suit a bespoke clear opening.

fig. a - Clear opening size + 125

e.g. you require a clear opening of 800mm on a single door (fig a) :  $800 + 125 = 925\text{mm}$  door width.

**Note:** If you need to include for a handle (Lever/Lever) add **60mm** to the above dimensions.

## Document M — access to and use of buildings (Buildings other than dwellings)

For a door in a property other than a dwelling then the following should be observed. The clear opening needs to be **775mm** for existing building and include an accessible threshold. (see table 2 & diagram 9) - Sizes below include for a Lever/Lever handle.

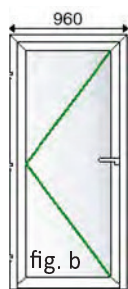
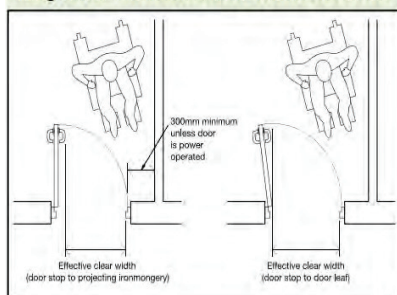
**Note:** Sizes are subject to door adjustment. Sizes do not include any frame extensions

**Table 2 Minimum effective clear widths of doors**

Direction and width of approach	New buildings (mm)	Existing buildings (mm)
Straight-on (without a turn or oblique approach)	800	750
At right angles to an access route at least 1500mm wide	800	750
At right angles to an access route at least 1200mm wide	825	775
External doors to buildings used by the general public	1000	775

**Note:**  
The effective clear width is the width of the opening measured at right angles to the wall in which the door is situated from the outside of the door stop on the door closing side to any obstruction on the hinge side, whether this be projecting door opening furniture, a weather board, the door or the door stop (see Diagram 9). For specific guidance on the effective clear widths of doors in sports accommodation, refer to "accessible sports facilities".

**Diagram 9 Effective clear width of doors**



To work out frame width to suit a bespoke clear opening.  
fig. b - Clear opening size + 185

e.g. you require a clear opening of 800mm on a single door fig. d :  $900 + 185 = 1085\text{mm}$  door width.

**Note:** Sizes include for a Lever/Lever handle (**60mm**)

**For more detailed information on requirements on please refer to building regulations "approved Document M: access to and use of buildings Vol 1: dwellings" & " Vol 2: buildings other than dwellings"**

## Hinge colour finishes

Profile Colour	Base packer colour	Hinge colour
White & White laminate	White	White
Cream	Cream	Cream
Rosewood	Dark Brown	Rosewood
Golden Oak	Light Brown	Light Brown
Irish Oak	Light Brown	Irish Oak
Nut Tree	Dark Brown	Rosewood
Black/Brown	Black	Black
Chartwell Green	Black	Chartwell Green
Anthracite Grey	Black	Anthracite Grey

Gold, Bright Chrome and Matt Chrome colour hinges are available upon request, however they are currently not recommended for external use.



The hinge base packers are only available in the following colour's: white, black, cream, dark brown and light brown as per the above list.

## Throw of hinge

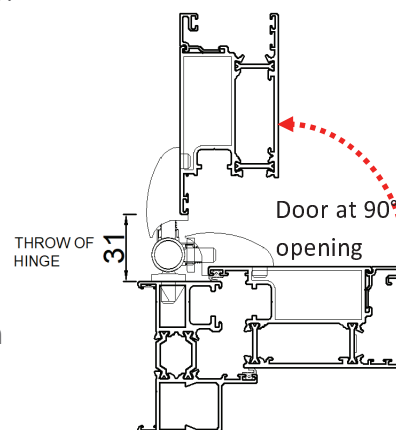
With the door open at 90 degrees the distance from face of frame to back edge of door sash is 31mm (throw of hinge). To calculate how far in your door will project from the face of the outerframe (**subject to hinge adjustment**)

Single doors:

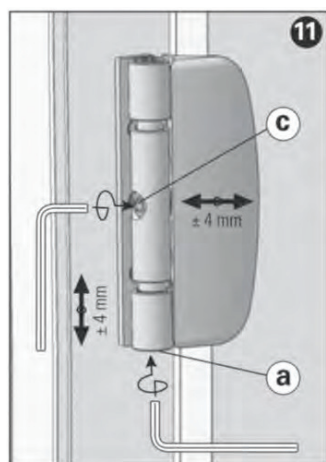
- Frame to Frame = Door width minus 38mm  
French Doors: (based on the slave sash as this has the false mullion attached) & (equal glass sizes)
- Frame to Frame = Door width divided by 2 plus 17 mm

**Note: Remember to give yourself enough clearance from outside edge of sash**

**Note : Sizes do not include any frame extensions**

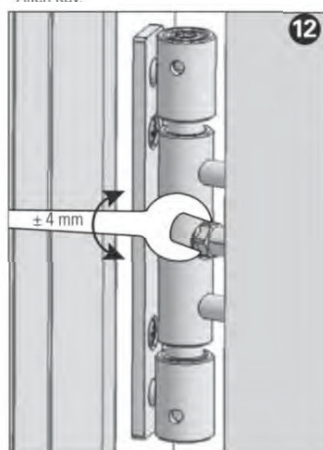


## Door hinge adjustment



**Horizontal adjustment:**  
adjust by turning screw (c) with a 5 mm Allen Key.

**Height adjustment:**  
adjust by turning screw (a) with a 5 mm Allen Key.



In difficult situations it is possible to make the horizontal adjustment from inside turning the hexagonal nut with a 9 mm spanner.



Open the door and tighten security screw (2).

## Door handles

Lever / Lever are supplied as standard  
Offset Lever / Pad & offset Lever/Lever options are available

### Colour finishes available

- White
- Black
- Gold (PVD)
- Polished Chrome
- Satin Chrome
- Flint (bronze)

Letter boxes are available in matching finishes

**In line  
Lever /Lever**



**Off Set  
Lever /Pad**



**Handle  
Blank**



**Note : Fix door handles by hand,  
do not overtighten as doing so will  
cause the face plate to indent**

## Mechanical digital locking handle (not available on French doors)

- Lockey Digital lock suitable for medium to heavy duty usage
- Used with the slam shut locking system - when door is closed the hook locks are automatically thrown
- Lever handles inside and out
- Key override (code not required to open door)
- Key can be used to deadlock the latch i.e. at night  
(once dead locked the key must be used to unlock the door)
- Optional hold back facility (snib on inside back plate)
- Can use the same code digit twice i.e. C18227 or C4477
- Easy code change
- Large easy press buttons (C to clear)
- SC finish (satin chrome)
- Handle has slipping clutch to prevent damage when forced
- 7'000 non sequential code groups

