

## Alitherm 800 casement window

Energy Rating A uValue 1.6Wm<sup>2</sup>k

70mm thermally broken Smart's aluminium

#### Alitherm 800 Window – Window Energy Rating 'A'

- Open out casements and fixed windows with externally beaded sashes and externally beaded fixed frames as standard.
- Outer frame and vent available as feature Ovolo (70mm)
- Chamfered bead as standard 28mm Double glazed ETC867
- Chamfered bead as standard 36mm triple glazed ETC874
- Espagnolette with bi-directional locking
- Average U-value 1.6 W/m²K (28mm with 1.2 centre pane) WER 'A'
- Average U-value 1.3 W/m<sup>2</sup>K (36mm with 0.8 centre pane) WER 'A'

#### Features and Options

- Internally beaded opening sash and externally beaded fixed panes
- Full internally beaded window, internally beaded opening sash with internally beaded dummy sash to fixed panes
- Internally beaded chamfered sash option 28mm & 36mm square bead only
- Internally beaded flat sash option 28mm & 36mm square bead only
- Finishes available in KL, RAL, Sensation range and dual colour options
- Square bead for externally beaded option available 28mm double glazed ETC861
- Square bead for externally beaded option available 36mm triple glazed ETC873
- Can be manufactured in accordance with Smarts PAS24 allowing windows to conform to Document Q – claw locks required

#### **Size Restrictions**

- Large frames with mullions are subject to be split and coupled based on a design wind load of 800pa
- Max frame size will depend on wind loading requirements and style of window but indicative sash sizes with Securistyle (13mm stack height) friction stays are as follows:

#### **Top Hung Sashes**

- Max width: 1400mm (sash size)
- Min width: 375mm (frame size 410mm)
- Max height: 1300mm (sash size)
- Min height: 300mm (frame size 340mm) (325mm transom drop)
- Max weight: 40kg

## Side Hung Sashes

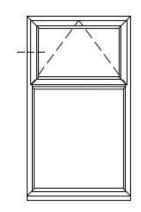
- Max width: 700mm (sash size)
- Min width: 300mm (frame size 340mm)
- Max height: 1400mm (sash size)
- Min height: 375mm (frame size 410mm)
- Max weight: 24kg
- 450mm opening (fire escape) frame/frame min 611mm frame/mullion CL min 597mm

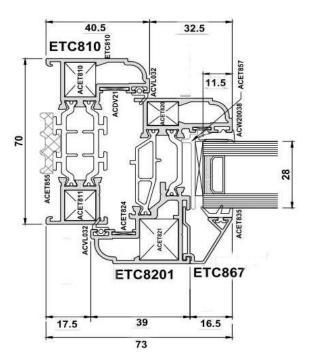
## Weather Performance (BS6375-1)

BS EN 1026: 2000 Air Permeability: Class 3 600 Pa
 BS EN 1027: 2000 Water tightness: Class E 1050 Pa
 BS EN 12211: 2000 Resistance to Wind Load: Class 5A 2000 Pa

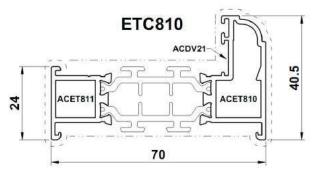
## **Cross Sectional Drawings**

Standard Frame & Sash Detail

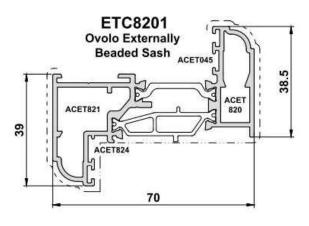




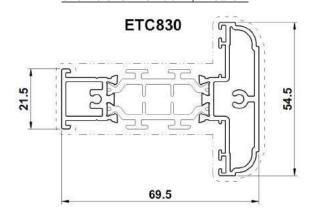
Standard Outerframe



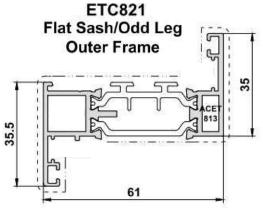
Standard Sash (externally beaded)



Standard Transom/Mullion



#### Odd leg Outerframe

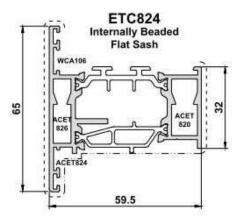


Can be used as sash – externally beaded - Cockspur locking only

#### Chamfered Sash (internally beaded)

# Internally Beaded Chamfered Sash WCA106 ACET 817 ACET 820 ACET 820 65.5

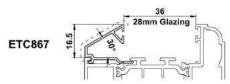
Flat Sash (internally beaded)



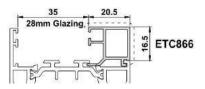
Note:

Check requirements when using internally beaded sashes. Fixed panes are externally beaded unless dummy sashes are requested

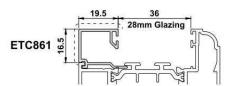
Standard external chamfered bead for 28mm double glazed



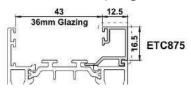
Standard internal square bead for 28mm double glazed



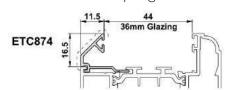
Optional external square bead for 28mm double glazed



Standard internal square bead for 36mm triple glazed



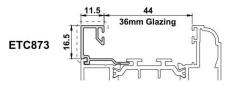
Standard external chamfered bead for 36mm triple glazed



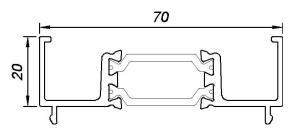
Note:

Raked/angled frames are only supplied with square bead

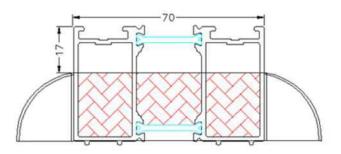
Optional external square bead for 36mm triple glazed



ETC858 70mm x 20mm extension



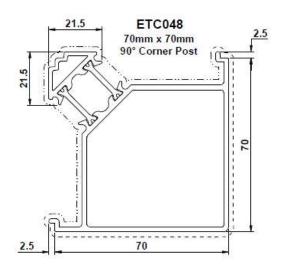
DV515 70mm x 42mm extension



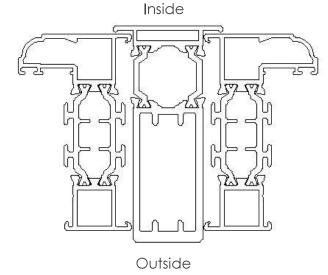
### Note:

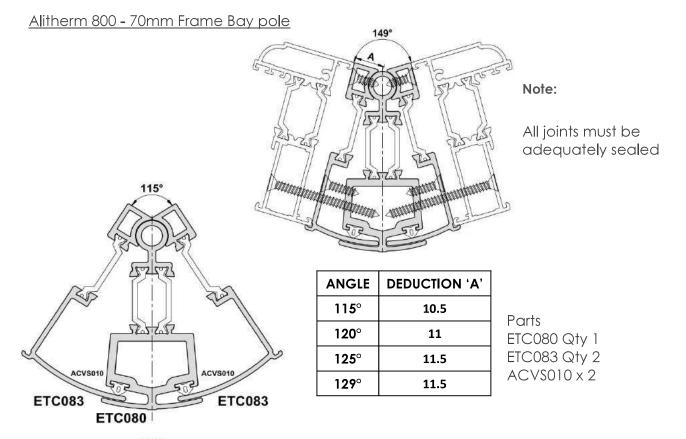
With the hood of the head fitted approx. 17mm to the outer edge of the 42mm head extension. Extensions come fitted to the outerframe and pre-routed

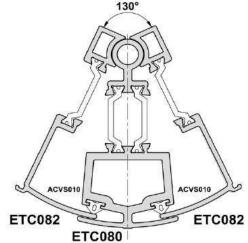
ETC048 90 - Corner Post



ETC517 180 - Coupler (25mm deduction)

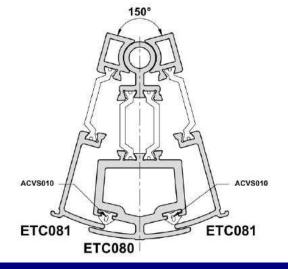






ANGLE	DEDUCTION 'A'
130°	11.5
135°	12
140°	12
145°	12.5
149°	12.5

Parts ETC080 Qty 1 ETC082 Qty 2 ACVS010 x 2



ANGLE	DEDUCTION 'A'
150°	13
155°	13
160°	13.5
165°	13.5
169°	14

Parts ETC080 Qty 1 ETC081 Qty 2 ACVS010 x 2

## **Alitherm 800 French Escape Windows**

There is no option on the 800 series for a double handle French escape window.

The only option available is for single handle gearing to the master and a finger operated bolt to the slave sash, as shown in the drawing.

## Parts

- ETC845 False mullion
- ACET847 False mullion end caps
- ACET854 Finger bolt keeps
- ACET853 Finger Bolts

French escape windows are available with the ETC8201 Externally beaded sashes

