



Heritage 47 Casement window

Energy Rating B uValue 1.7Wm²k

47mm thermally broken Smart's aluminium

Smart Systems Alitherm Heritage 47 Series

Alitherm Heritage Window – Window Energy Rating 'B'

The Alitherm Heritage window system offers a modern thermally broken alternative to steel windows. The Alitherm Heritage has been designed with signature slim sightlines, attractive aesthetic contours and enhanced thermal performance.

The Alitherm Heritage window offers integral mullions, transoms and cruciforms as standard or can be built as a series of horizontal or vertical modules which can be stacked using couplers to form multi-part windows featuring a specially designed drip bar between modules.

- Fixed frames externally beaded & sashes internally beaded as standard
- Option to use dummy sash for internally beaded fixed frames
- Square bead throughout.
- Espagnolette with bi-directional locking
- Average U-value of 1.7 W/m²K (28mm with 1.2 centre pane) – WER 'B'
- 36mm triple glazed available 0.8 W/m²K centre pane – WER 'A' (**W20028 sash**)

Features and Options

- Ultra slim frame and sash – used as a replacement for Crittall style windows
- Claw lock available – window not comply with PAS24

Size Restrictions

- Maximum sizes 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: 376mm (frame size 400mm)
- Max height: 1300mm (sash size)
- Min height: 300mm (frame size 330mm) (transom drop 320mm)
- Max weight: 40kg

Side Hung Sashes

- Max width: 700mm (sash size) using side hung stays (600mm using egress/easy clean stays)
- Min width: 300mm (frame size 330mm)
- Max height: 1400mm (sash size)
- Min height: 376mm (frame size 400mm)
- Max weight: 24kg
- 450mm opening (fire escape) - frame/frame min 580mm - frame/mullion CL min 520mm

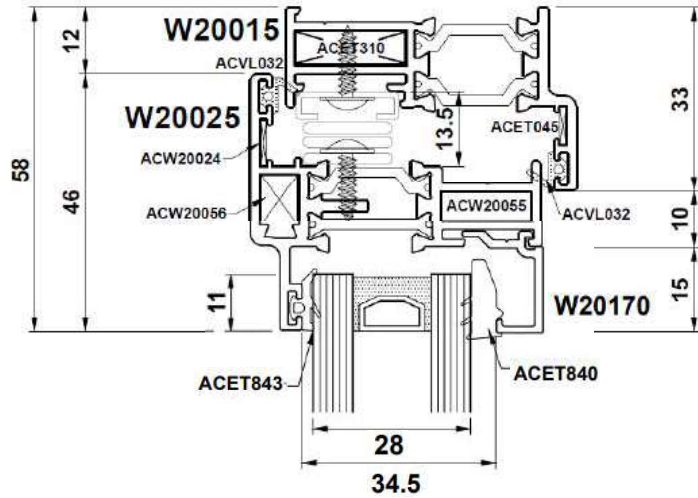
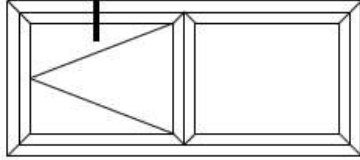
Weather Performance (BS6375-1)

- BS EN 1026: 2000 Air Permeability: Class 4 600 Pa
- BS EN 1027: 2000 Water tightness: Class 9A 600 Pa
- BS EN 12211: 2000 Resistance to Wind Load: Class AE 2400 Pa

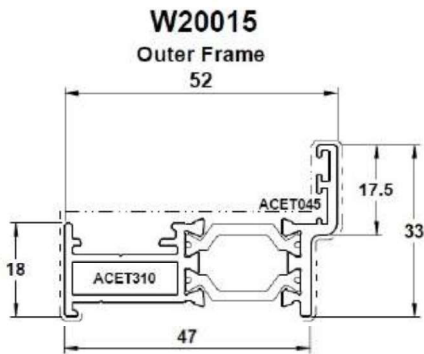
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Cross Sectional Drawings

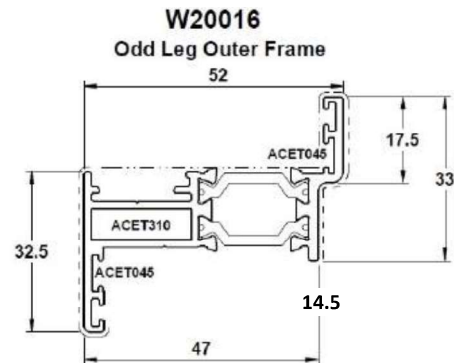
Standard Frame & Sash Detail



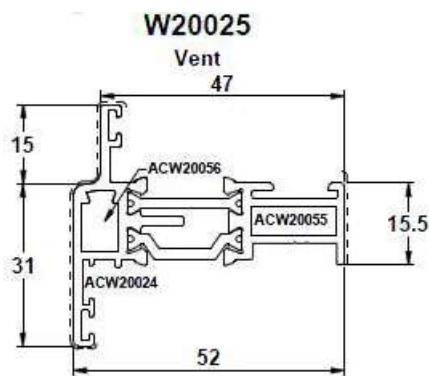
Standard Outer Frame



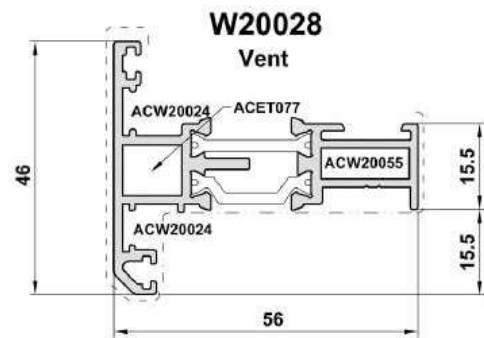
Odd leg Outer Frame



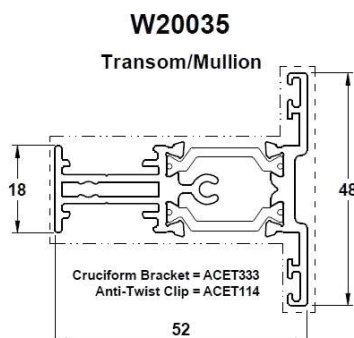
28 mm Internally Beaded Sash



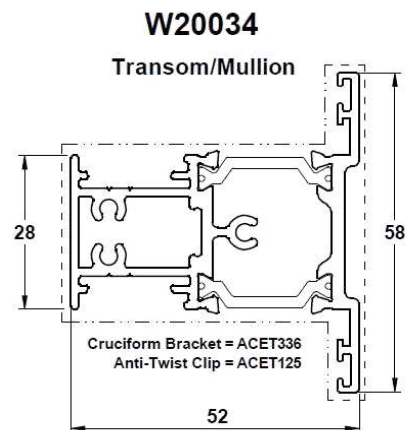
36mm Internally Beaded Sash



Standard Transom/Mullion

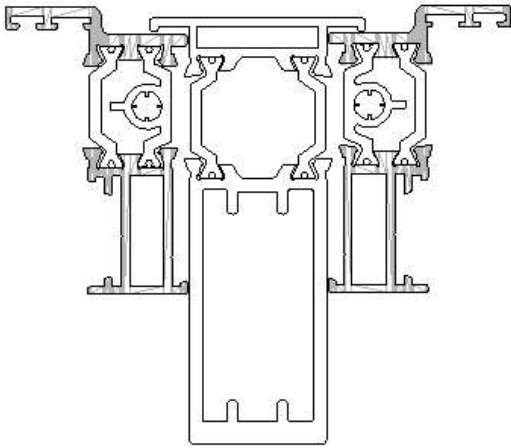


Heavy Duty Transom/Mullion

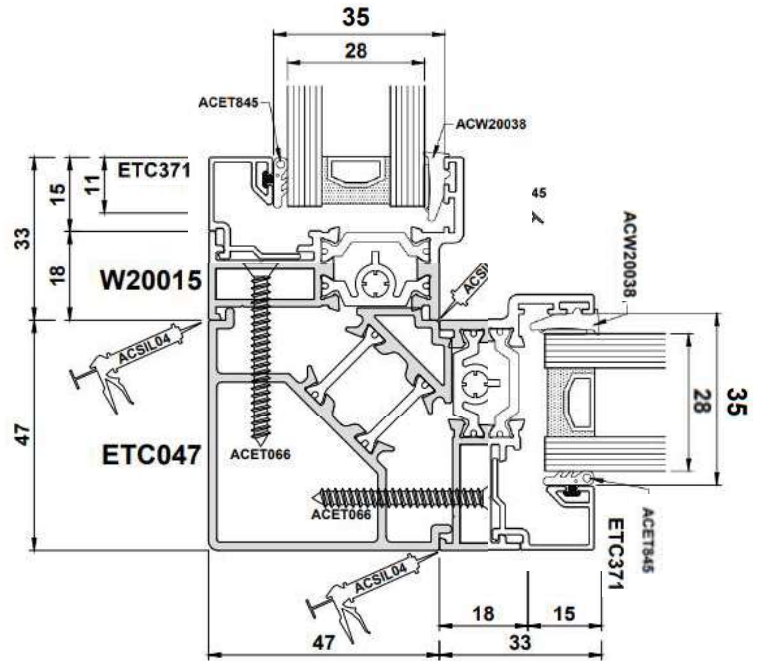


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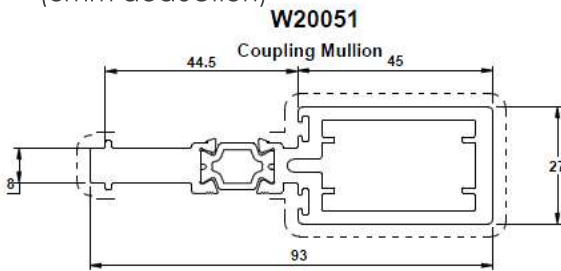
ETC517 180° Coupler (25mm deduction)



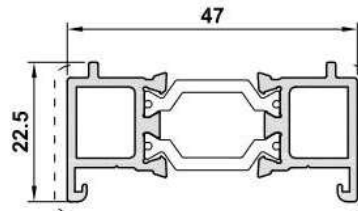
ETC047 90° Corner Post (0mm deduction)



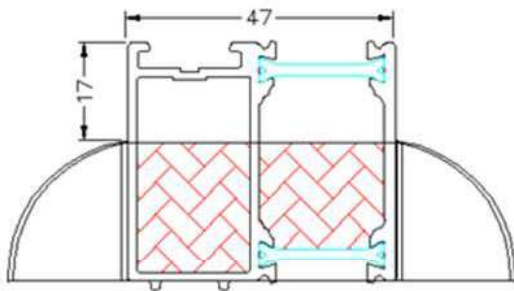
W20051 / W20054 180° Coupler (8mm deduction)



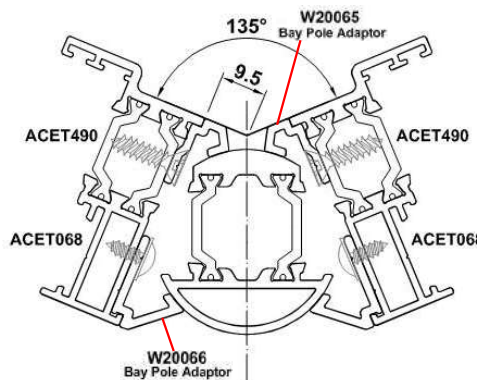
47mm x 20 mm ETD056 Frame Extension



47mm x 42 mm ETD058 Head Extension



W20069 Bay Pole



ANGLE	DEDUCTION 'A'
180°	18
175°	17
170°	16
165°	15.5
160°	14.5
155°	13.5
150°	12.5
145°	11.5
140°	10.5
135°	9.5
130°	8.5
125°	7.5
120°	6.5
115°	5

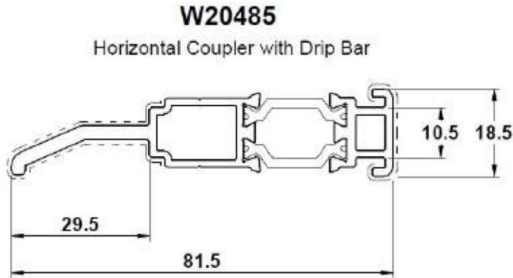
Note:

with the hood of the head vent fitted there is approx. 17mm to the outer edge of the 42mm head extension. Extensions come fitted

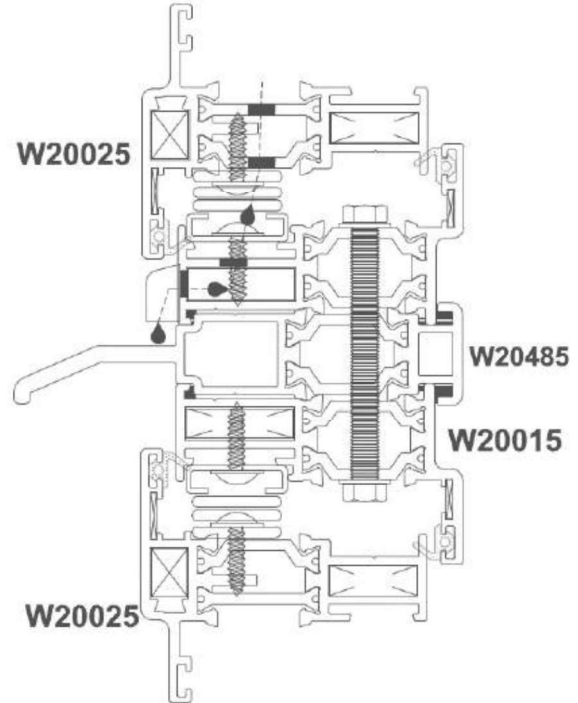
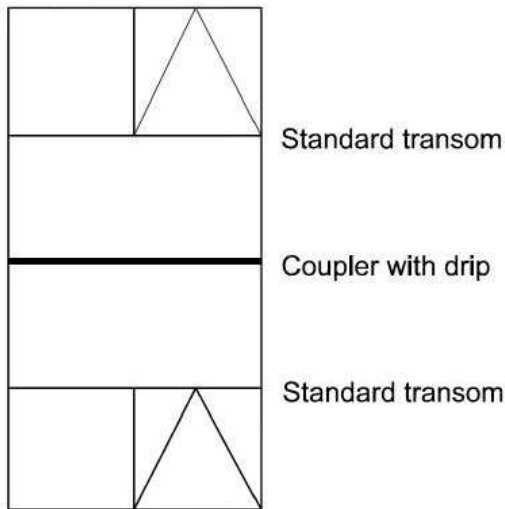
W20069 Bay Pole

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Horizontal Coupler with Drip Bar



Horizontal coupler would typically be used to construct ladder frameworks as below:

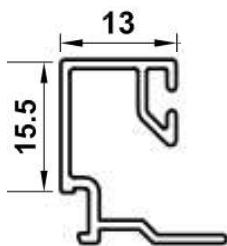


Note:

Frames are drilled and coupled on site. 5mm threaded rod shown (by others) and to be fitted at 300mm centres

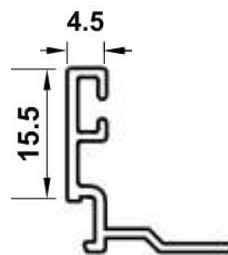
28mm External
Outerframe bead

ETC371



36mm External
Outerframe bead

ETC376



28mm & 36mm
Internal Sash bead

W20170

