



Alitherm 300 casement window

Energy Rating B uValue 1.6Wm²k

70mm thermally broken Smart's aluminium



Alitherm 300 Window – Window Energy Rating 'B'

- Open out internally beaded casements and externally beaded fixed panes as standard
- 70mm thermally broken system with ACET619 foam infill to surround
- Flat outer frame and vent as standard
- Square bead as standard
- 13mm stack friction hinge
- Espagnolette with bi-directional locking
- Average U-value 1.6 W/m²K (28mm Clear/Low E 1.2 W/m²K centre pane U-Value) WER 'B'

Features and Options

- For fully internally beaded windows, use internally beaded dummy sashes to fixed panes
- Finishes available in KL, RAL, Sensation range and dual colour options
- Optional egress hinge with easy clean facility (easy clean subject to sash width)
- Odd leg outer frame available ETC423 16mm leg (long leg sizes required for orders/quotations) note: extended lead time
- Trickle vents available (fitted into 42mm frame extension)
- Optional PAS24 or Secure by Design includes claw locks to sashes and Glaslok secure-clip security clip to externally beaded fixed panes (supplied loose) note: check your glazing requirements
- French escape windows are **NOT** available
- Triple glazing is NOT available

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
- Outside of the sizes below frame will be subject to NO warranty

Top Hung Sashes

- Max width: 1431mm (sash size) (1471mm frame size)
- Min width: 371mm (sash size) (411mm frame size)
- Max height: 1330mm (sash size) (1370mm frame size)
- Min height: 306mm (sash size) (346mm frame size) (mm transom drop)
- Max weight: 40kg
- Side Hung Sashes
- Max width: 631mm (sash size) (671mm frame size)
- Min width: 331mm (sash size) (371mm frame size)
- Max height: 1431mm (sash size) (1471mm frame size)
- Min height: 371mm (sash size) (411mm frame size)
- Max weight: 24kg
- Egress hinge max sash weight 24kg (subject to sash size)
- Mega egress max sash weight 40kg (subject to sash size)

Weather Performance (BS6375-1)

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

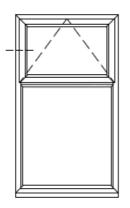
Class 4, 600 Pa

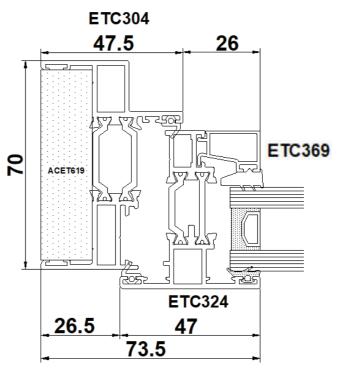
Class E, 1200 Pa



Cross Sectional Drawings

Standard Frame & Sash Detail

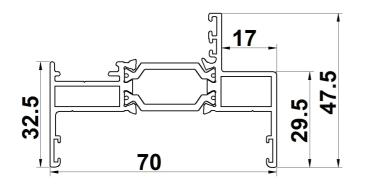




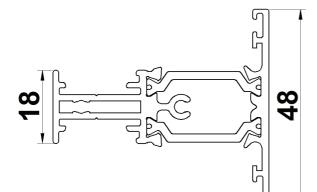
Note:

Check requirements, fixed panes will be externally beaded unless dummy sashes are requested

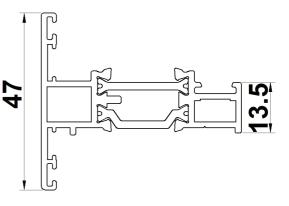
> ETC304 Outerframe Ix value 22.01



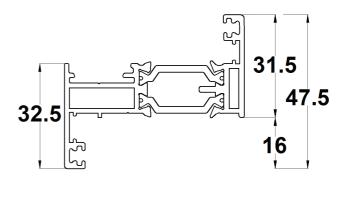
ETC333 Standard Transom/Mullion Ix value 11.64



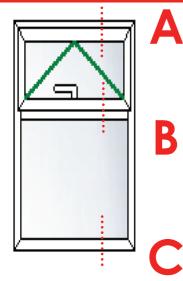
ETC324N Internally beaded sash Ix value 16.66



ETC423 Odd leg Outerframe 16mm Leg Ix value 14.35 extended lead time





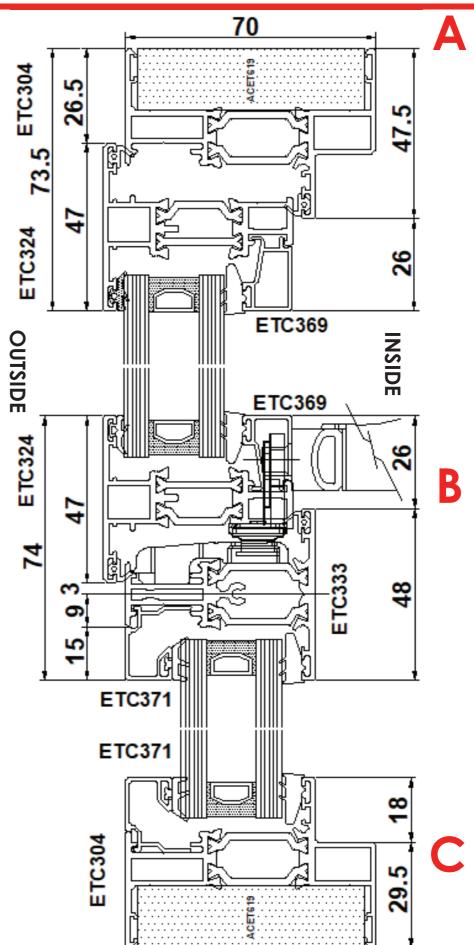


Internally beaded sash over externally beaded fixed pane

Cross section detail of

- (A) Head
- (B) Transom

(C) Cill

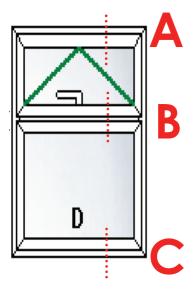


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so you think all window companies are the same ... think again!



My Ali Framing Solutions Alitherm 300 Casement Window



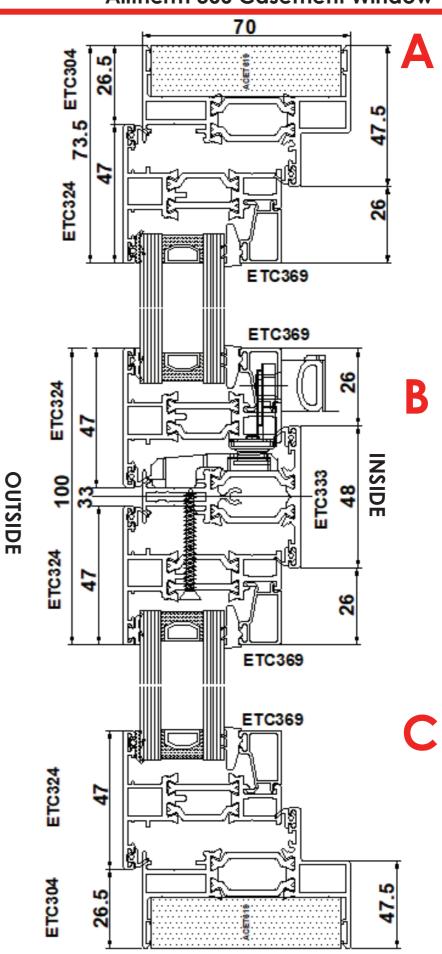
Internally beaded sash over internally beaded dummy sash

Cross section detail of

(A) Head

(B) Transom

(C) Cill



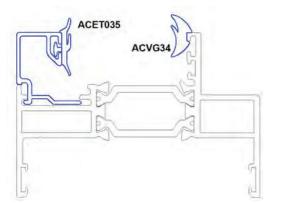
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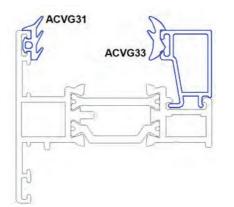


Bead & Gaskets

Externally beaded fixed pane ETC371 bead 28mm double glazed



Internally beaded sash ETC369 bead 28mm double glazed



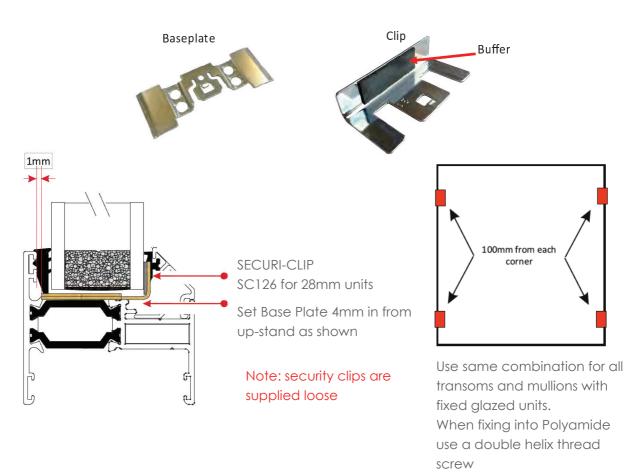
Note:

Check requirements, fixed panes will be externally beaded unless dummy sashes are requested

Glaslok Security glazing clip

To comply with PAS24/SBD all fixed panes need to be glazed with a glazing security clip.

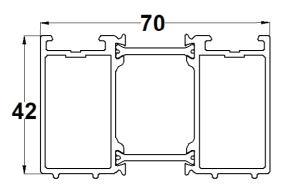
The clip set assembly is comprised of a baseplate, clip to suit the sealed unit thickness and a buffer to prevent contact between glass and clip.



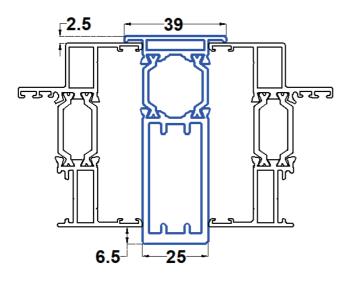


Ancillaries

DV515 42mm Frame extension

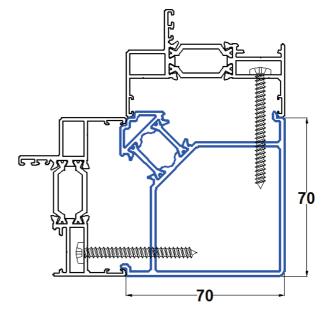


ETC357 25x79mm coupler 12.5mm deduction each side Ix value 41.5

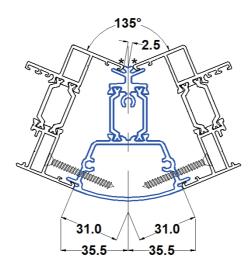


DV559 20mm Frame extension

ETC048 Corner Post



ETC385 135° fixed bay pole 2.55mm deduction each side

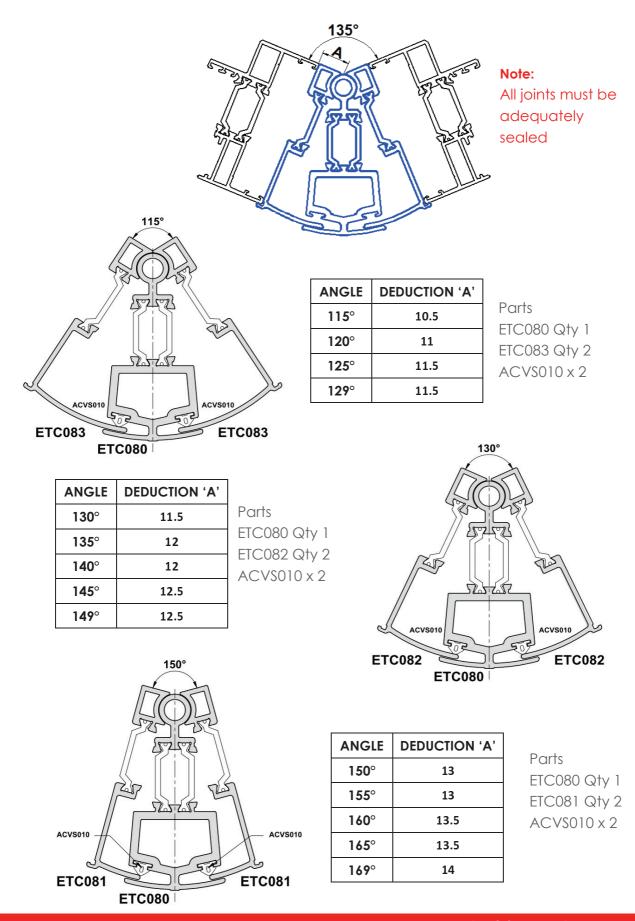


Note: All joints must be adequately sealed

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Alitherm 300 - Variable Bay pole 115° - 169°



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Wind Loading – Alitherm 300

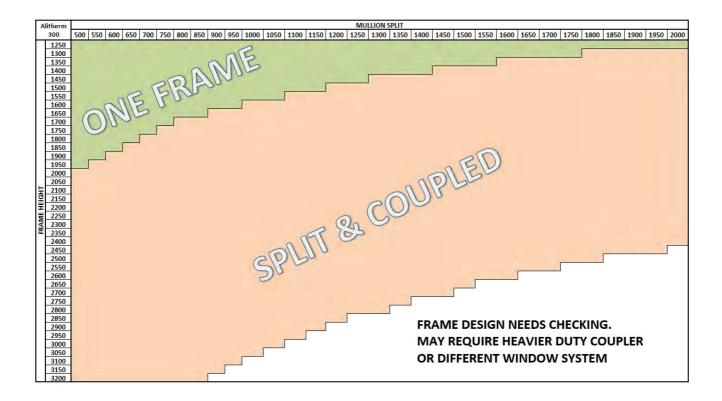
Wind loading calculations based on 800pa, and equal mullion splits.

Mullion ETC333 Ix value of 11.64

Frame ETC304 Ix value 22.01

Coupler ETC357 lx value 41.5

Coupler and Frame combined Ix value (22.01x2 + 41.5) = 85.52



OMEGA windows, doors & conservatories

My Ali Framing Solutions Alitherm 300 Casement Window

U Value & Energy ratings

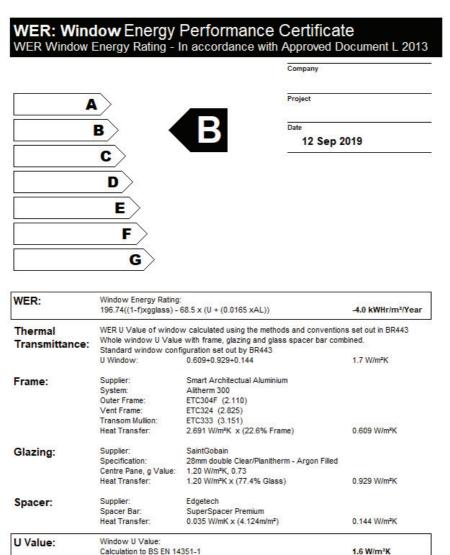
Double Glazed Units

Our standard glass specification is:

- 28mm double glazed units
- 4mm Planilux clear /4mm Planitherm +
- 90% argon gas filled cavity
- 20mm black super spacer bar
- 20kg per m²

Outer Frame ETC304

with Sash ETC324N and Mullion ETC333 Average U-value of 1.6W/m²K – WER 'B' Unit centre pane of 1.2 W/m²K



alculated in accordance with UK Building Regulations Document L and BR443 S EN ISO 10077-2. Thermal performance of windows, doors and shutters, advance of thermal transmittance. Brat 2, Numerical method for furnes

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