

ALITHERM 400

FRAMING FUTURE ALUMINIUM SOLUTIONS

Photographs shown in this brochure illustrate the types of projects suitable for Alitherm 400 and are not binding in detail, colour or specification.

Faster, simpler fabrication and installation

- ① Quick Glaze Bead with co-extruded glazing gasket
- ② Sashes feature co-extruded flipper and retaining gaskets
- ③ Outer frame features co-extruded flipper gasket

FEATURES SMART'S NEW
QUICK GLAZE BEAD

The installers choice *for simplicity and speed*

Suitable for a broad range of residential and commercial applications, Alitherm 400 provides the ultimate in versatility, delivering a high-quality, high-performance option for projects of all size and complexity.

The first system in the UK to feature Smart's innovative Quick-Glaze Beads, the system has been developed with ease of fabrication and installation in mind. With the profiles and beads being supplied with the glazing gasket pre-extruded into the profile, the Quick-Glaze Bead significantly reduces fabrication and installation time.

The high quality system requires little maintenance, ensuring that once installed it will deliver many decades of trouble free, reliable operation.

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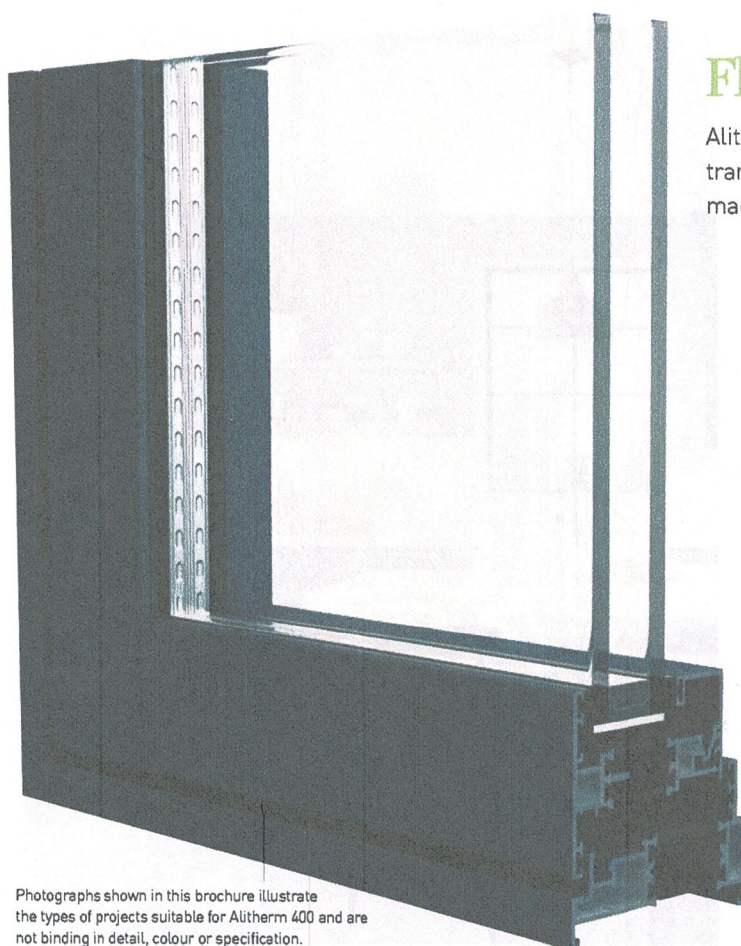
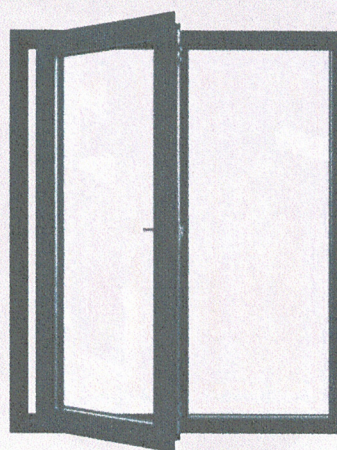
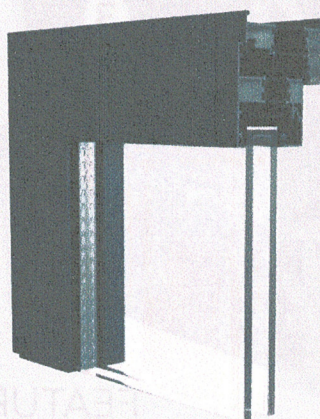


Alitherm 400 *window systems*

Available in fixed, side hung, top hung, tilt & turn and flush casement options, Alitherm 400 windows deliver excellent thermal and weather performance, as well as the security assurance provided by PAS24 approval.

Standard Casement

The format of choice for many projects, Alitherm 400 standard casement windows are available as fixed and top-hung or side-hung options, to meet the needs of any application.



Flush Casement

Alitherm 400 flush casement windows use the same sash, transom and mullion profiles as standard casements and are made possible by selecting the flush window outer frame.

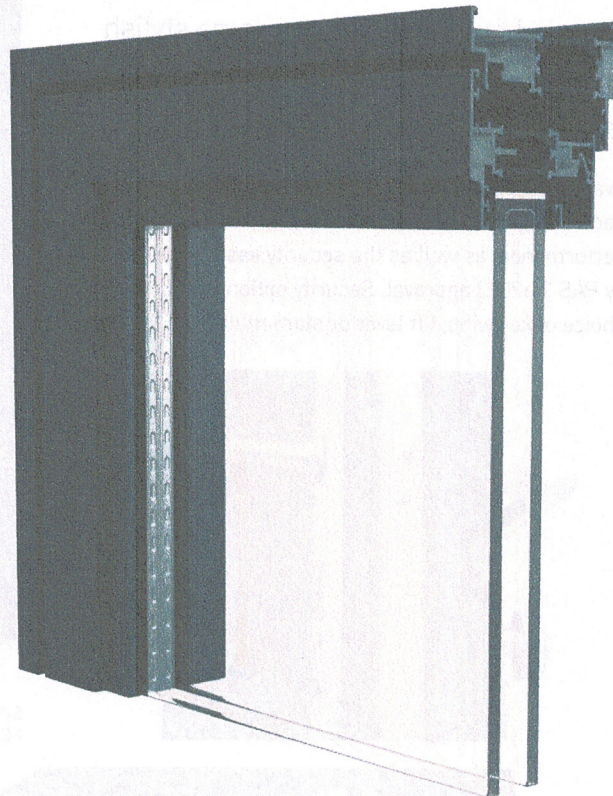


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Heritage Flush Casements

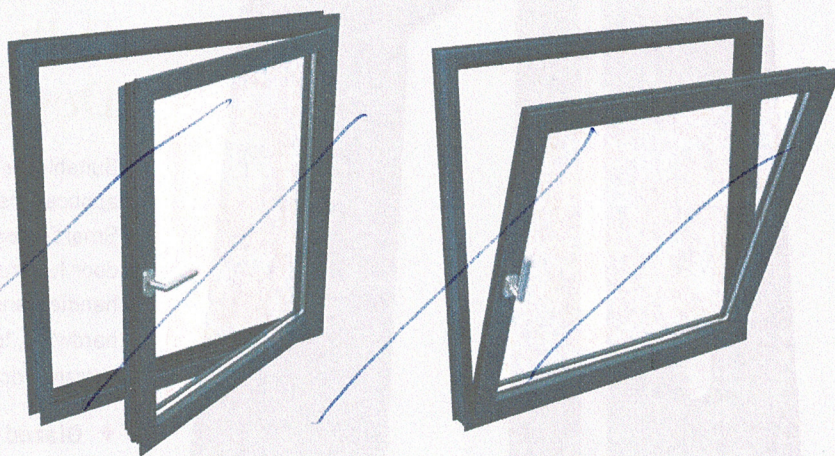
The slim profiles and elegant lines of the Alitherm 400 system make it an ideal solution for refurbishment projects, and as a modern, energy efficient replacement for tired u-PVC, steel and timber windows.



The installers choice for simplicity and speed

Tilt & Turn windows

The Tilt & Turn unit provides a contemporary design and the option of tilting the window or opening it into the room to 90 degrees. Perfect for flooding a room with light and air – and for easy cleaning.



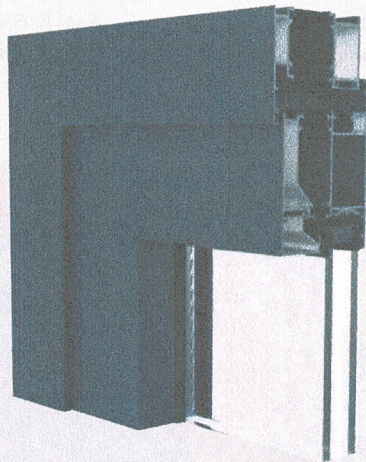
Window Type	Maximum Width (mm)	Maximum Height (mm)	Frame Depth (mm)	Maximum Perimeter (mm)	Glazing Units	Security Standard	Typical U Value ¹	WER ²	Air Permeability Classification	Water Tightness Classification	Resistance to Wind Classification
Sash dimensions for windows with approved sash profiles:											
Side Hung	864	1400	70	–	24, 28, 32, 36, 40, 45	PAS 24:2022	1.4 W/m ² K	Band A	Class 4	E1200	AE2400
Top Hung	1400	1400	70	–	24, 28, 32, 36, 40, 45	PAS 24:2022	1.4 W/m ² K	Band A	Class 4	E1200	AE2400
Fixed	2100	2100	70	42	24, 28, 32, 36, 40, 45	PAS 24:2022	1.4 W/m ² K	Band A	Class 4	E1200	AE2400
Tilt / Turn	1200	2100	70	–	24, 28, 32, 36, 40, 45	TBA	1.4 W/m ² K	Band A	TBA	TBA	TBA

[For sizes outside these parameters, contact the Smart Technical Support team]

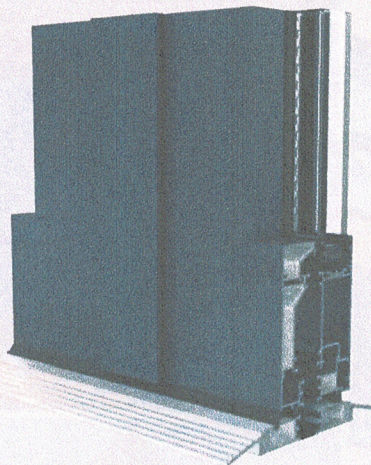
Typical Values different glass, profiles and door configurations will vary U Value and Window Energy Rating

1. U Value based on opener next to fixed 1230 x 1480 using glass Centre Pane 1.0

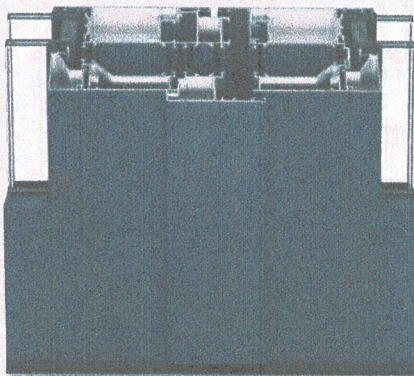
2. WER based on opener next to fixed 1230 x 1480 using glass Centre Pane 1.2 and g value 0.74



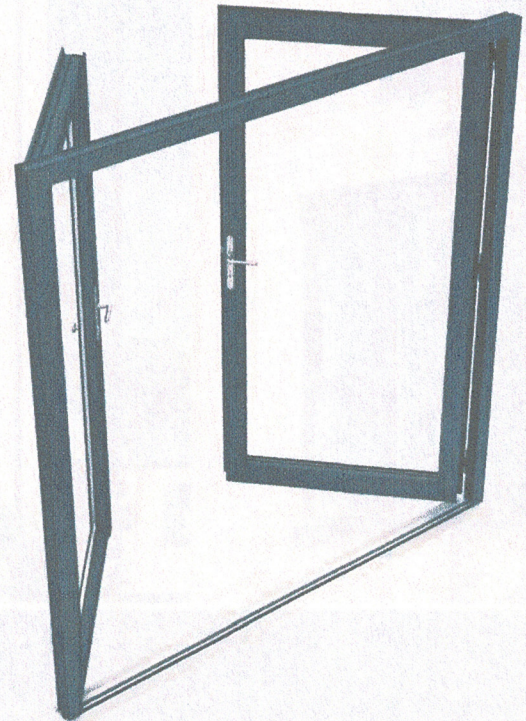
DOOR
SASH CORNER



DOUBLE DOOR MEETING STYLE
& LOW THRESHOLD



DOUBLE DOOR - OPEN IN/OPEN OUT



Door Type	Maximum Width (mm)	Maximum Height (mm)	Frame Depth (mm)	Glazing Units	Security Standard	Typical U Value ¹	DSER ³	Air Permeability Classification	Water Tightness Classification	Resistance to Wind Classification
Sash dimensions for doors with approved sash profiles:										
Single Door Open In	1000	2400	70	24, 28, 32, 36 & 40, 45	PAS 24:2022	1.4W/m ² K 1.2 W/m ² K (w/ Designer Panel)	Band B	Class 2 300Pa	Class 5A 200Pa	Class BE 2400Pa
Double Door Open In	2000	2400	70	24, 28, 32, 36 & 40, 45	PAS 24:2022	1.4W/m ² K 1.2 W/m ² K (w/ Designer Panel)	Band B	Class 2 300Pa	Class 5A 200Pa	Class BE 2400Pa
Single Door Open Out	1000	2400	70	24, 28, 32, 36 & 40, 45	PAS 24:2022	1.4W/m ² K 1.2 W/m ² K (w/ Designer Panel)	Band B	Class 2 300Pa	Class E 1050Pa	Class AE 2400Pa
Double Door Open Out	2000	2400	70	24, 28, 32, 36 & 40, 45	PAS 24:2022	1.4W/m ² K 1.2 W/m ² K (w/ Designer Panel)	Band B	Class 2 300Pa	Class E 1050Pa	Class AE 2400Pa

(For sizes outside these parameters, contact the Smart Technical Support team)

3. U Value and Door Set Energy Rating for single door based on 1230 x 2180 using glass Centre Pane 1.0

4. U Value for double door based on 2000 x 2180 using glass Centre Pane 1.0

5. Door Set Energy Rating for double doors based on 2000 x 2180 using glass Centre Pane 1.2 and g value 0.7

6. Weather-tightness based on lift-lever locking