alitherm

300 . 600 . 700 . 800

smart
architectural aluminium

Thermal Aluminium Windows

alitherm 300 . 600 . 700 . 800

Features

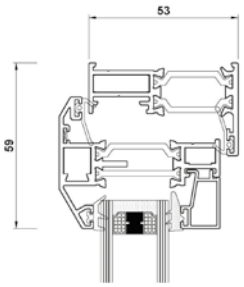
The Alitherm series of windows offer a range of high quality glazing solutions for side hung, top hung open out and parallel opening casements, suitable for both the residential and commercial markets.

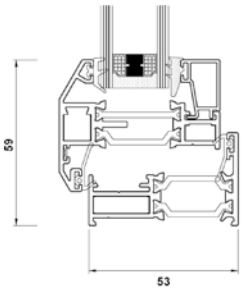
This versatile range of profiles can provide many solutions such as traditional casement windows inspired by the elegance and styling of timber products, or automatic parallel opening commercial windows designed to provide a balanced airflow in multi-storey commercial buildings.

All Alitherm profiles utilise Smart's innovative polyamide thermal break technology which creates a barrier between the cold air outside and the warm air inside. This technology significantly reduces thermal transmittance and enhances the overall U Value of a product.

Alitherm products are available in a choice of standard or non-standard colours, including metallic, dual colour and Smart's unique Sensations range of textured finishes.

The series features the new Alitherm 300, Alitherm 600, Alitherm 700 and Alitherm 800 windows, designed to meet the exacting requirements of Document L 2010.





Drawings not to scale.

alitherm

300

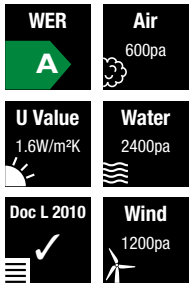
Applications	All general light use applications

System Features

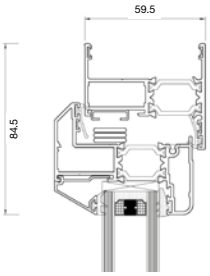
- The system features an extended Polyamide thermal break which improves the overall U Value of the profile, allowing Alitherm 300 to achieve a Window Energy 'A' Rating when used in conjunction with the correct double or triple glazed unit
- The system is suitable for both internally or externally beaded, side or top hung open out windows
- Profiles have the option of either ovolo, chamfered or square edges
- Frame options for both standard and slim-line stays
- Option of either multi-point or cockspur locking handles

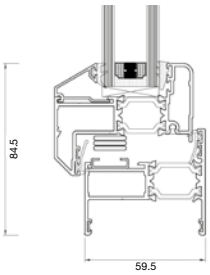
Finish	Single or dual colour, marine quality polyester powder coat as standard **
Window Energy Rating	A
U Value	1.6W/m²K using correct sealed unit
Air	Class 4, 600pa
Wind	Class E, 1200pa
Water	Class E, 2400pa
Doc L 2010	Yes
Frame Depth	53mm
Glass	24mm, 28mm or 32mm double or triple gazed units
SH Max o/a width	700mm
SH Max o/a height	1400mm
TH Max o/a width	1400mm
TH Max o/a height	1200mm

(For sizes outside of these parameters, contact Smarts Technical).



**Marine guarantee subject to application.





alitherm 600

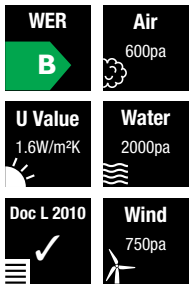
Applications All general light use applications

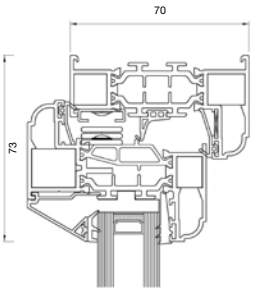
System Features

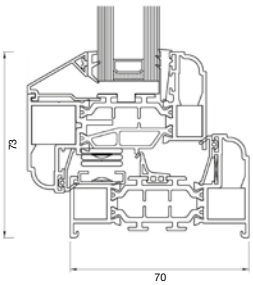
- An enhanced system designed to comply with the revisions to the Building Regulations Document L 2010
- System can achieve Window Energy 'B' Rating
- Profiles feature an extended polyamide thermal break to enhance thermal performance
- Fabrication is by method of crimped or mechanical corners
- Ovolo, chamfered or square profiles

Finish	Single or dual colour, marine quality polyester powder coat as standard **
Window Energy Rating	B
U Value	1.6W/m²K using correct sealed unit
Air	Class 4, 600pa
Wind	Class E, 750pa
Water	Class 5, 2000pa
Doc L 2010	Yes
Frame Depth	59mm
Glass	28mm double or triple glazed units
SH Max o/a width	700mm
SH Max o/a height	1400mm
TH Max o/a width	1400mm
TH Max o/a height	1500mm

(For sizes outside of these parameters, contact Smarts Technical).







Drawings not to scale.

alitherm 800

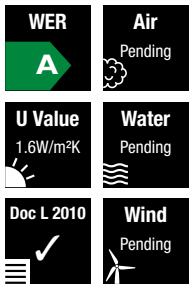
Applications All general use applications

System Features

- Highest thermal performance window suitable for all general use applications
- Will achieve U Values under 1.6w/m²K when used in conjunction with correct double glazed sealed unit
- Alitherm 800 windows achieve a Window Energy 'A' Rating.
- Extended chambered Polyamide thermal breaks provide excellent thermal performance.

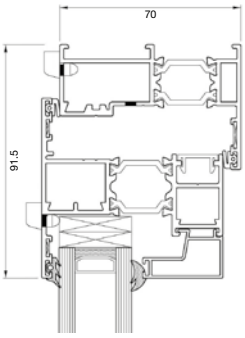
Finish	Single or dual colour, marine quality polyester powder coat as standard **
Window Energy Rating	A
U Value	1.6W/m²K or better using correct sealed unit
Air	Test Result Pending
Wind	Test Result Pending
Water	Test Result Pending
Doc L 2010	Yes
Frame Depth	70mm
Glass	24mm, 28mm double or triple glazed units
SH Max o/a width	700mm
SH Max o/a height	1400mm
TH Max o/a width	1400mm
TH Max o/a height	1500mm

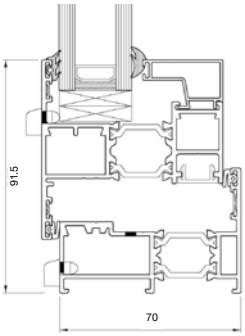
(For sizes outside of these parameters, contact Smarts Technical).



**Marine guarantee subject to application.

700





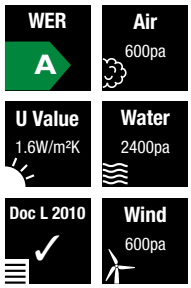
Applications Commercial applications, suitable for multi-storey

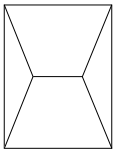
System Features

- Alitherm Parallel is an innovative solution for enhanced natural ventilation. The system allows for a balanced, effective airflow whilst maintaining security and safety.
- Alitherm Parallel is ideal for insertion into curtain wall facades in both low and high rise commercial buildings.
- The system is suitable for use as either replacement windows in existing buildings, or for installation into new builds.
- Alitherm Parallel incorporates internally beaded vents suitable for either cockspur or shoot-bolt locking.
- The system is also suitable for use with chain-operators, operated either individually or as part of an integrated automated solution for building climate control.

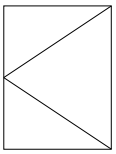
Finish	Single or dual colour, marine quality polyester powder coat as standard **
Window Energy Rating	A
U Value	1.6W/m²K using correct sealed unit
Air	600pa
Wind	600pa
Water	2400pa
Doc L 2010	Yes
Frame Depth	70mm
Glass	28mm double or triple glazed units
PL Max oa width*	2000mm
PL Max o/a height*	3000mm
SH Max o/a width*	838mm
SH Max o/a height*	1500mm
TH Max o/a width*	1790mm
TH Max o/a height*	2000mm

*Parallel windows over 1500mm wide or weighing over 100kg should be motorised operation only

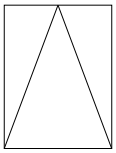




Parallel



Side Hung



Top Hung

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Smart Systems Limited Arnolds Way, Yatton, North Somerset BS49 4QN. UK
Tel +44 (0)1934 876 100 | Fax +44 (0)1934 835 169 | sales@smartsystems.co.uk | www.smartsystems.co.uk