

alitherm

300 . 600 . 700 . 800

Thermal Aluminium Windows

smart
architectural aluminium

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.

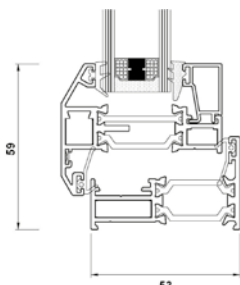
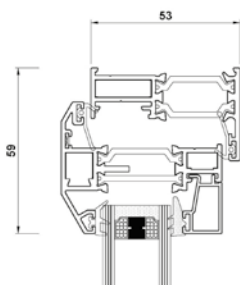
All Alitherm profiles utilise Smart's innovative polyamide thermal break technology which creates a barrier between the cold air outside and the warm air inside. This technology significantly reduces thermal transmittance and enhances the overall U Value of a product.

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.

alitherm

300



Drawings not to scale.

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

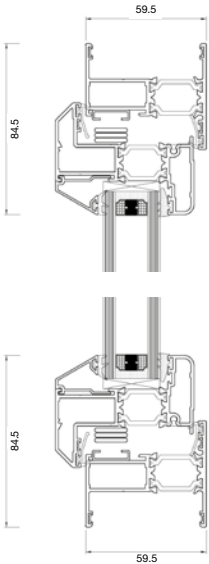
TH Max o/a width 1400mm

TH Max o/a height 1200mm

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

**Marine guarantee subject to application.

WER A	Air 600pa
U Value 1.6W/m ² K	Water 2400pa
Doc L 2010 ✓	Wind 1200pa



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

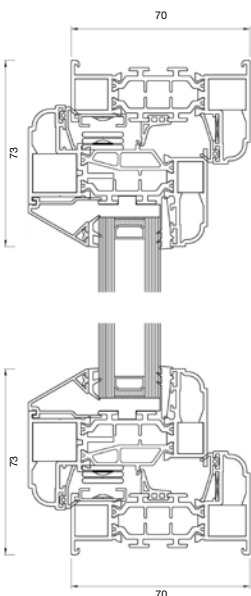
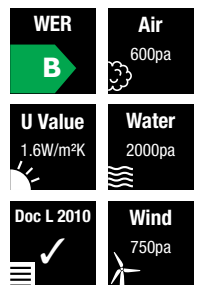
SH Max o/a width 700mm

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).



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

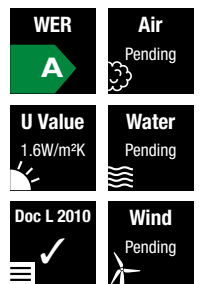
SH Max o/a width 700mm

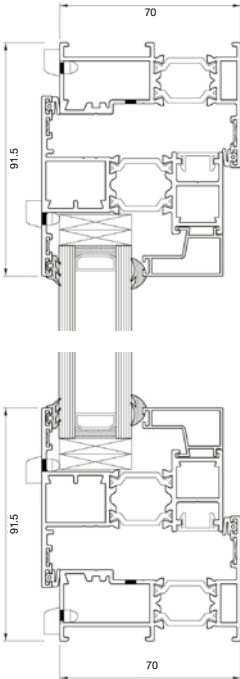
SH Max o/a height 1400mm

TH Max o/a width 1400mm

TH Max o/a height 1500mm

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





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 o/a 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*

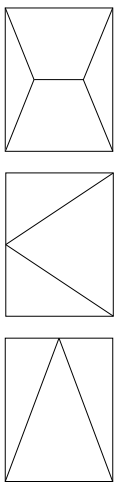
1790mm

TH Max o/a height*

2000mm

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

WER A	Air 600pa
U Value 1.6W/m ² K	Water 2400pa
Doc L 2010 ✓	Wind 600pa



Parallel

Side Hung

Top Hung



Drawings not to scale.

**Marine guarantee subject to application.