



**smart**  
architectural aluminium

## Alitherm 500

The latest addition to the Alitherm suite of window and door systems, Alitherm 500 provides a range of high quality windows. With options including side hung and top hung flush casement windows, Alitherm 500 windows are suitable for both residential and light commercial applications.

- Window Energy Rating B
- BRE Green Guide A+
- U Values up to 1.4 W/m<sup>2</sup>K (depending on design and glass unit)
- Kitemarked – which includes PAS24:2012 security and high weather performance

The images illustrate different types of suitable applications for Alitherm 500 and are not binding in detail or specification



# Alitherm 500

In common with every profile in the Alitherm range, the Alitherm 500 window system incorporates Smart's innovative polyamide thermal break technology, which creates a barrier between the cold air outside and warm air inside. This technology significantly reduces thermal transmittance and enhances the overall U Value of the product. Alitherm 500 is available in a choice of standard and non-standard colours, with single and dual colour options including Smart's own Naturals, Sensations, Alchemy and Cotswold colour ranges.



## Application

- ◆ All general light use applications, including light commercial

## Features

- ◆ An enhanced system designed to comply with the revisions to the Building Regulations
- ◆ Document L compliant
- ◆ System can achieve Window Energy B Rating
- ◆ 316 Marine Grade Stainless Steel Hardware option
- ◆ Profiles feature an extended polyamide thermal break to enhance thermal performance
- ◆ Fabrication is by method of crimped corners
- ◆ Profiles are chamfered externally and flat internally (not flush)
- ◆ British Standard Kitemarked system – KM 81580

## Finish

Single or dual colour, marine quality powder coat as standard

## Technical Performance

<b>U Value</b>	Up to 1.4 W/m <sup>2</sup> K (depending on design and glass unit)
<b>Air</b>	Class 4, 600Pa
<b>Water</b>	Class E1050, 1050Pa
<b>Wind</b>	Class AE2400, 2400Pa
<b>Security</b>	PAS24: 2012
<b>Document L Compliant</b>	
<b>Dimensions</b>	
<b>Frame Depth</b>	59.5mm
<b>Typical Sight Line</b>	63.5mm
<b>Glass</b>	24mm & 28mm
<b>Recommended Design Limits</b>	
<b>Side Hung Max o/a width</b>	700mm
<b>Side Hung Max o/a height</b>	1400mm
<b>Top Hung Max o/a width</b>	1400mm
<b>Top Hung Max o/a width</b>	1400mm

