

Uniclass L4145:P4323	EPIC D151:X421
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# Sunsquare Limited

High specification flat roof skylights



Access, Ventilation, Solar Control



# Sunsquare Limited

## High specification flat roof skylights

Sunsquare Limited is a design and manufacturing company, with many years of experience in the flat roof skylight industry.

Our range of high specification skylights have all been designed to achieve maximum daylight with minimal framework, as well as offering excellent thermal performance whilst maintaining sleek contemporary style.



In a world of diminishing natural resources our skylights have been carefully designed to surpass all current regulations, and we use the highest quality sustainable and recyclable materials in their manufacture. The addition of a Sunsquare skylight harnesses natural daylight as a means of lighting a room, reducing the requirement for artificial lighting.

Sunsquare Limited offer a range of skylights including solutions for fixed units, hinged opening with both electrical and manual opening mechanisms, roof top access and walk-on skylights.

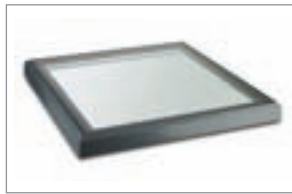
The entire range of standard skylights are manufactured from our own suite of extruded aluminium profiles, which are all thermally broken with two polyamide insulating sections. All frames are dual colour as standard, polyester powder coated to RAL 9010 (white) internally and RAL 7015 (slate grey) externally. The framework also benefits from our unique Decorstop detail – which allows the plasterboard to be integrated within the frame, so as to minimise internal sight lines.

The insulating glass unit is bonded into the framework using industry leading structural silicone sealants, for which laboratory adhesion testing has been conducted, see p.18 for full test data results.

All skylights are available with an optional fully insulated upstand or, alternatively it can be installed onto a builders upstand.

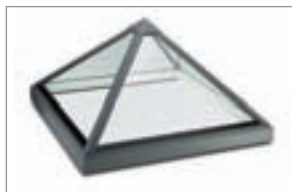


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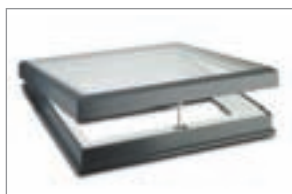
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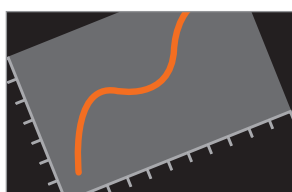
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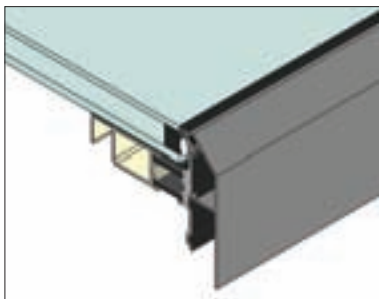


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# SkyView

The definitive flat roof skylight



*Section profile*

The SkyView range of fixed flat roof skylights combines industry leading thermal performance with sleek aesthetic appeal.

Manufactured from our extruded aluminium profile which is thermally broken with two polyamide insulating sections and factory glazed with a 26mm argon filled and soft coat low E insulating glass unit, it is clear to see how the SkyView surpasses Building Regulations.

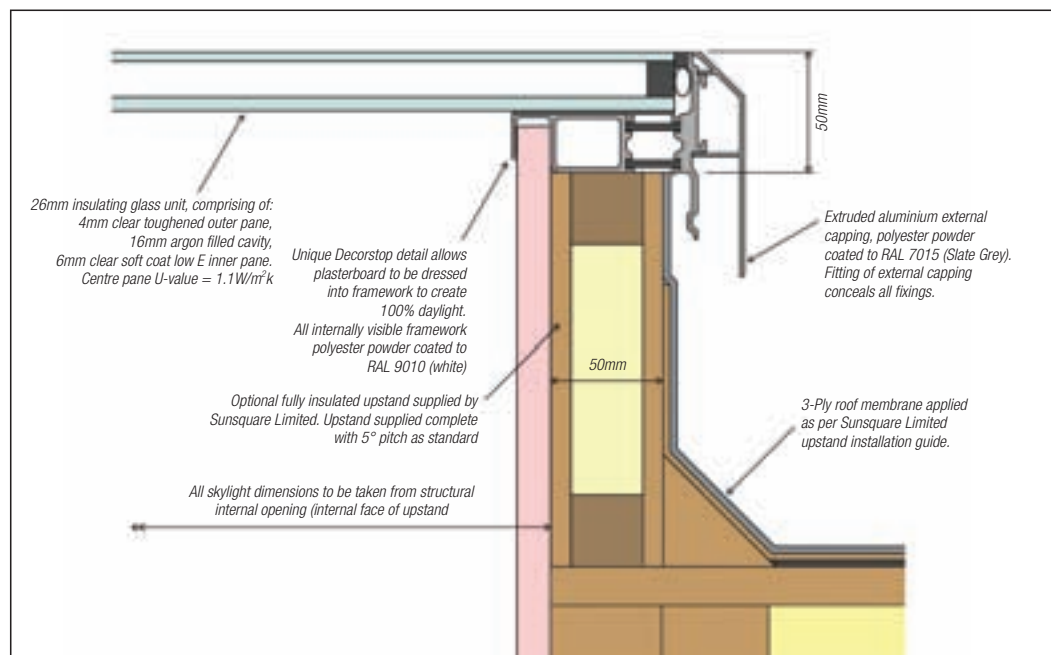
There are many glazing options available including tinted, obscured and high performance solar control glass.

The SkyView skylight is available as both a standalone single or multipane unit. Also, a range of wall abutting options are available.

All SkyView skylights are manufactured to your specific requirements.

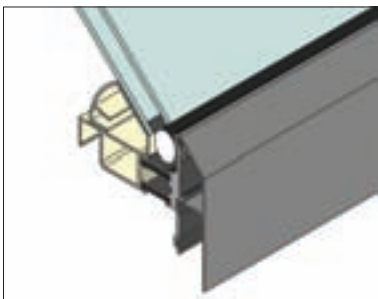
Technical assistance is available to assist you in the sizing and specification of the SkyView skylight.

*Section through SkyView Fixed Flat Roof Skylight (Shown installed on optional insulated upstand)*



# Pyramid

The contemporary architectural skylight



*Section profile*

The Pyramid range of fixed flat roof skylights utilises the excellent thermal performance of the SkyView with a contemporary architectural design.

The Pyramid framework is manufactured from our extruded aluminium profile which is thermally broken with two polyamide insulating sections and is factory glazed using a 24mm argon filled and soft coat low-E insulating glass unit. All external glass edges are protected by polyester powder coated flashings.

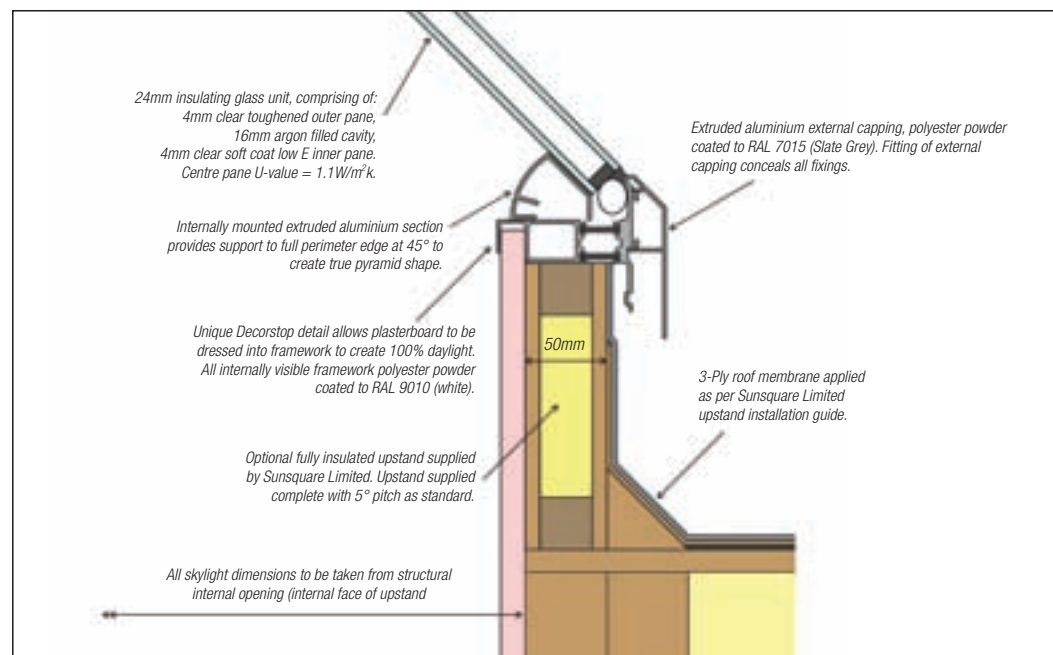
There are many glazing options available including tinted, obscured and high performance solar control glass.

The Pyramid is available as a square unit and also as an elongated Pyramid, in both styles the glass is pitched at 45°.

The Pyramid skylight is also available as part of our Aero opening skylight range for ventilation.

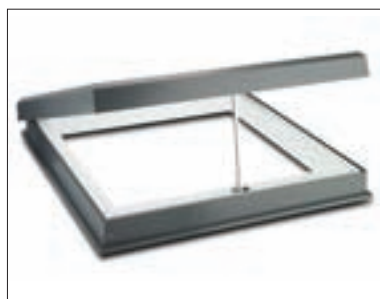
Technical assistance is available to assist you in the sizing and specification of the Pyramid skylight.

*Section through Pyramid Fixed Flat Roof Skylight (Shown installed on optional insulated upstand)*



# Aero Electrical

Sunshine with a breath of fresh air



*Fully open position*



*Hinge detail*



*Chain detail*

The Aero electrical is an impeccably designed range of hinged opening flat roof skylights. The design combines industry leading thermal performance with the highest quality, fully concealed opening mechanism, maintaining contemporary style.

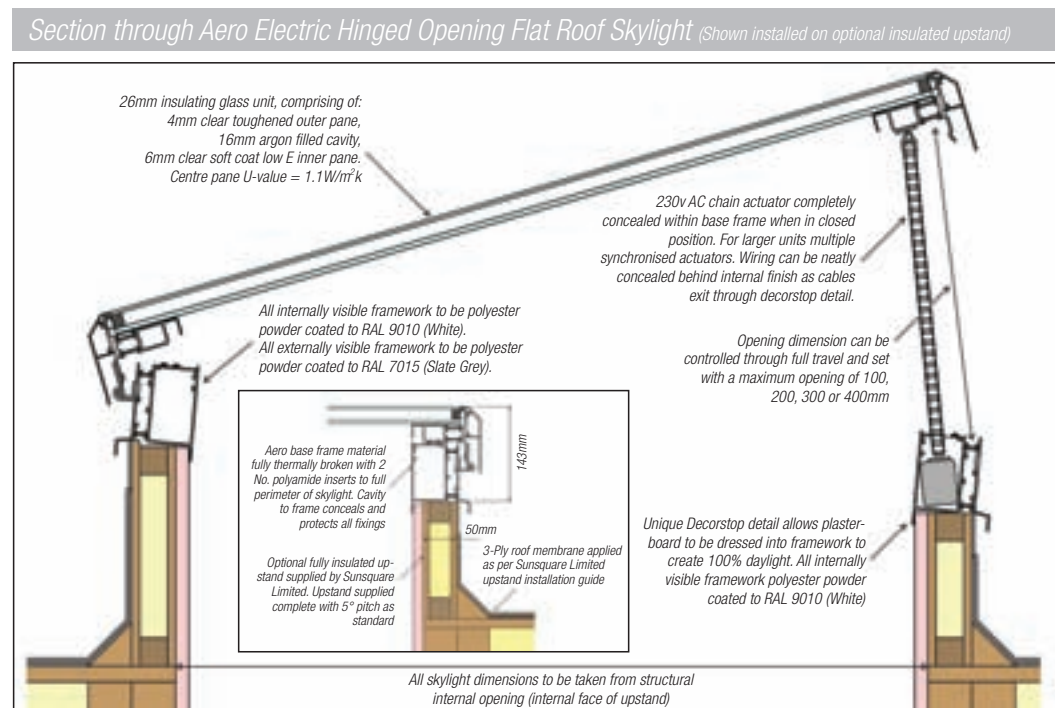
The Aero electrical is fitted with a 230v chain driven actuator, which is completely concealed within the base frame and opens the skylight to a maximum of 400mm. The cable for the motor exits at the bottom of the base frame behind the Decorstop detail, so that it can be invisibly routed behind the plasterboard.

There are many glazing options available including tinted, obscured and high performance solar control glass.

There are many optional extras available with the Aero electrical, including remote control, heated rain sensor, wind sensor, temperature sensor and weather pack – for full details please see p.17.

The Aero Electrical skylight is available in a huge variety of sizes and can utilise multiple actuators to achieve smooth opening.

Technical assistance is available to assist you in the sizing and specification of the Aero skylight range.



# Aero Manual

Sunshine with a breath of fresh air



*Closed position*



*Bottom bracket screw-jack*



*Top bracket screw-jack*

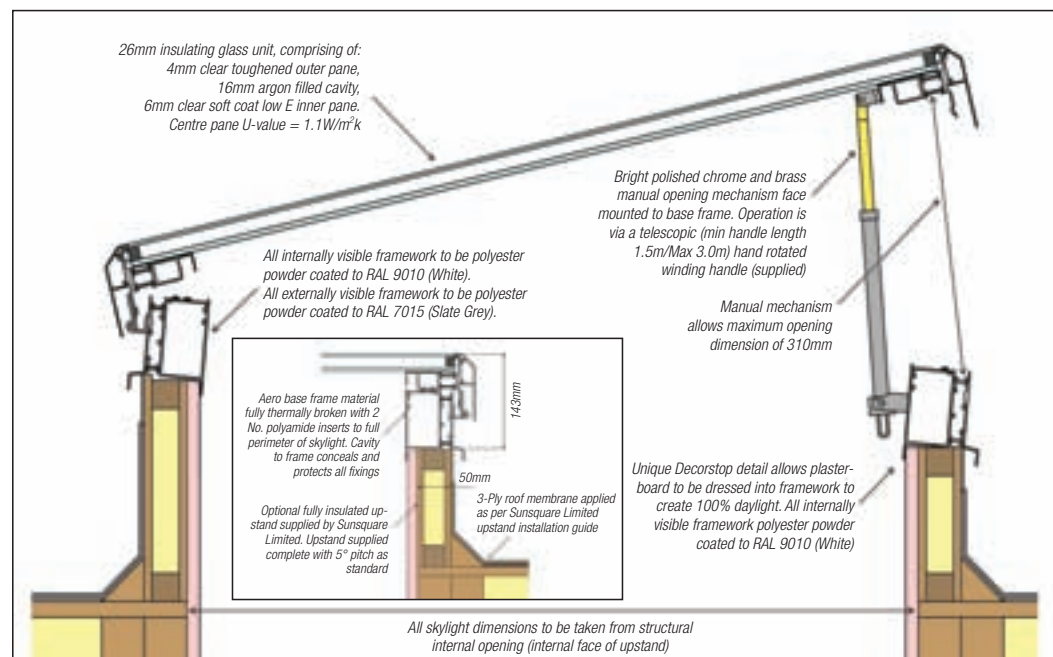
The Aero Manual is an impeccably designed range of hinged manually opening flat roof skylights combining industry leading thermal performance with contemporary aesthetics.

The Aero manual is fitted with a telescopic screw-jack opener and is supplied with an anodised aluminium telescopic (1.5m-3m) operating pole. The screw-jack has an opening stroke length of 310mm.

There are many glazing options available including tinted, obscured and high performance solar control glass.

Technical assistance is available to assist you in the sizing and specification of the Aero skylight range.

Section through Aero Manual Hinged Opening Flat Roof Skylight (Shown installed on optional insulated upstand)



# Aero Access

Flat roof access with elegance and style



*Aero Access (manual)*



*Gas strut (manual)*



*Lock with key (manual)*

The Aero access is an impeccably designed range of hinged opening flat roof skylights combining industry leading thermal performance with contemporary aesthetics. It allows access onto the flat roof area, whilst also performing as a high specification flat roof skylight.

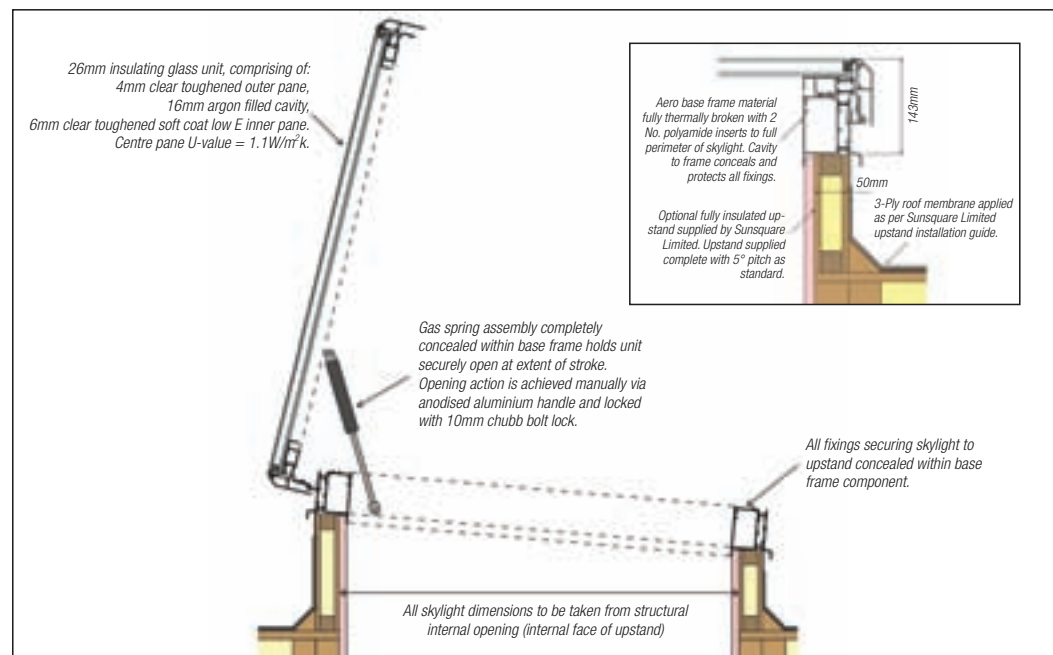
The Aero manual access is fitted with a pair of concealed gas struts with an internally mounted Chubb lock and handle. Once unlocked the skylight manually hinges open and is held at 85° on the gas struts. The ledge handle is then used to simply close the skylight with the lock keeping the skylight securely closed. This option is suitable for skylights up to 1.5m<sup>2</sup>.

The Aero Electric Access is fitted with a pair of 24v DC folding arm actuators that can effortlessly lift the skylight open for either ventilation or full access. This option is suitable for all skylight sizes up to 3m<sup>2</sup>.

There are many glazing options available including tinted, obscured and high performance solar control glass.

Technical assistance is available to assist you in the sizing and specification of the Aero skylight range.

Section through Aero Manual Hinged Access Flat Roof Skylight (Shown installed on optional insulated upstand)

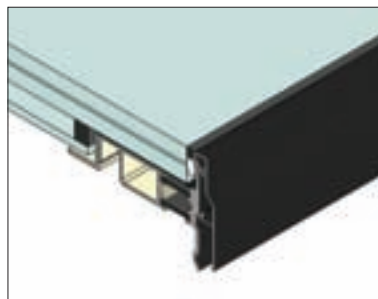


# Horizon

Walk-on skylight combining safety with style



*Horizon walk-on skylights*



*Section profile*

The Horizon walk-on skylight has been designed specifically for roof terraces and areas requiring regular pedestrian access.

Manufactured from our extruded aluminium profile which is thermally broken with two polyamide insulating sections and factory glazed with a walk-on specification insulating glass unit. The latest regulations for thermal performance and safety have been surpassed by the Horizon.

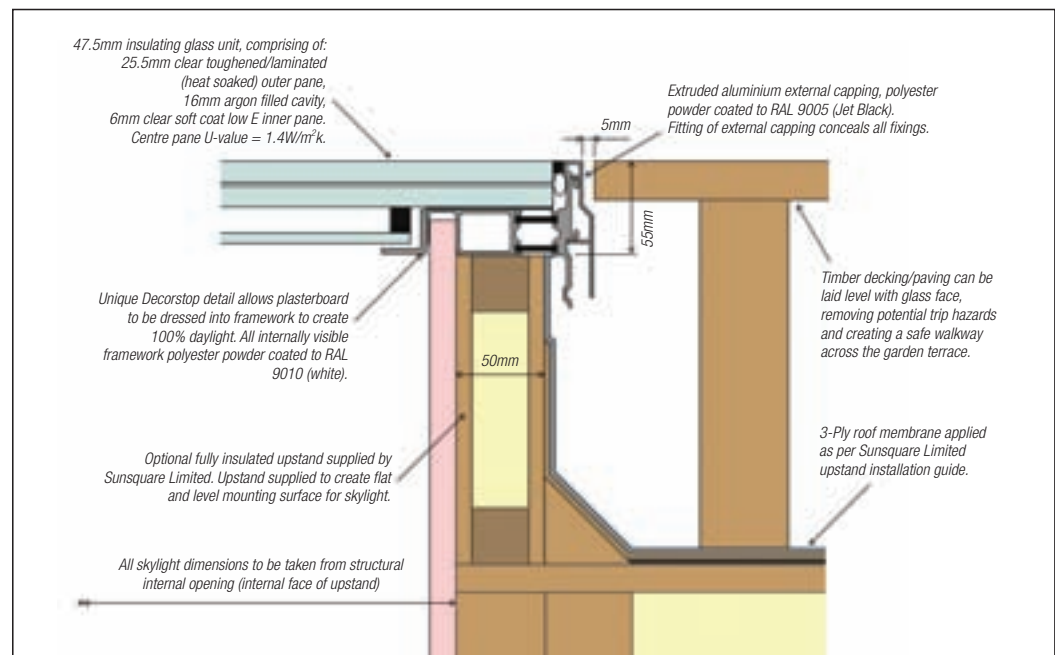
The insulating glass unit can be supplied as a clear unit or with a white PVB interlayer for areas requiring privacy. The glass can also be partially or fully treated to provide an anti-slip finish to the outer pane.

The Horizon is designed to be installed onto an upstand, with the timber decking or roof-top paving aligning with the top face of the glass.

The Horizon is available as standalone single and multipane units and can be configured to abut walls.

Technical assistance is available to assist you in the sizing and specification of the Horizon skylight range.

*Section through Horizon Walk-on Flat Roof Skylight (Shown installed on optional insulated upstand)*



# Floorlight

The Contemporary Solution to Multi-Floor Lighting



The Floorlight internal walk-on panel has been specifically designed to provide a flush fitting glass panel that maintains all the function of the floor while illuminating the room below with valuable natural light.

Available as single panels for standalone use or modular multi-panels for larger areas. Each panel is manufactured to your exact size and specification.

Options are available in clear, obscured and tinted glass for both style and privacy. Also, for kitchens and bathrooms where the glass could regularly become wet a range of anti-slip treatments can be added for the ultimate in safety and style.

# Options

## All skylights

### *Upstand*

We offer a fully insulated upstand, which can be manufactured to include trickle ventilation. Our upstand incorporates a 5° pitch, which we recommend to allow excellent water run-off, the Horizon walk-on and Pyramid upstands do not have this fall.

### *Glass Options*

We supply all of our skylights glazed with a high specification insulating glass unit, as standard, there are many additional options including: tinted glass, sound insulating, high performing solar control and obscured.

### *Triple Glazed*

Triple glazed skylights are available on all units other than the Pyramid – please ask for further information.

### *Polyester Powder Coating*

Our frames are supplied dual colour as standard: RAL9010 (white) internally and RAL7015 (slate grey) externally, but we can supply a skylight to any standard RAL colour, if the project requires.

## Aero Electrical

### *Remote Control*



Operating at 433Mhz, this small key-fob style control, allows the operator to open and close the skylight without the requirement of a standard switch. It is supplied with a small wall mountable holster to store the remote control between uses.

### *Heated Rain Sensor*



This intelligent sensor triggers the closing of the skylight in rainy conditions. It is heated so that morning dew is evaporated and does not prevent the skylight from opening – includes all mounting accessories.

### *Weather Pack*



This intelligent sensor combines a heated rain sensor with a wind sensor and triggers the closing of the skylight in high winds or rainy conditions. The unit is supplied configured to 6Bft (considered a strong breeze measuring 25-31mph) - includes all mounting accessories.

# Test Data

## *Structural Silicone Sealants*

We exclusively use a range of structural adhesives supplied by the industries leading structural silicone manufacturer: Sika. Sika have performed laboratory adhesion testing on our range of extruded aluminium profiles to test compatibility with their sealants. The results show excellent adhesion performance and we received top marks in all tests, a full copy of the test certificate is available to download from our website.

## *Insulating Glass Units*

We only source our glass units from UK glass manufacturers of BSI Kite-marked insulating glass units. We insist that our glass suppliers meet the standard of BS EN 1279 parts 2 & 3 for insulating glass unit manufacture and BS EN 12150 for the manufacture of Toughened Safety Glass.

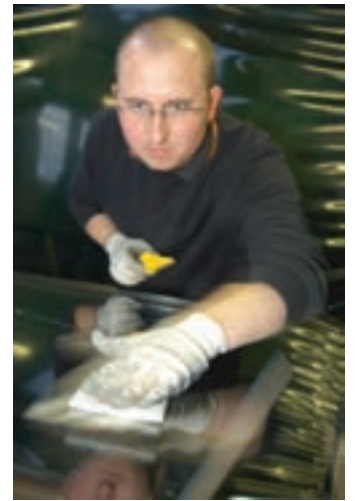
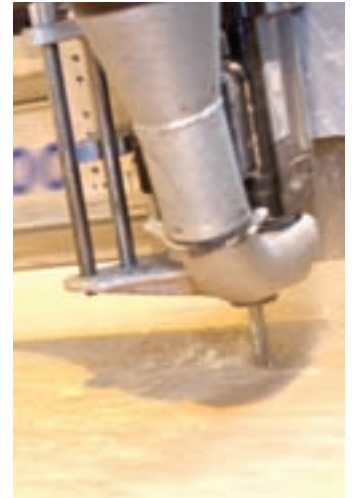
All of our insulating glass units have a silicone edge perimeter seal, our current glass supplier only uses the Sika range of sealants, which is 100% argon retentive. As we also only use the Sika range of sealants we can guarantee full compatibility between the glass unit and our factory glazing methods.

## *Extruded Aluminium Profiles*

Our range of extruded aluminium profiles are all manufactured to BS EN 12020-1:2001. By only using extruders who manufacture to this British and European Standard, ensures that our profiles are all extruded to very tight tolerances on form, surfaces and dimensions.

## *Polyester Powder Coated*

Our extruded aluminium profiles are polyester powder coated to the following British and European Standards: BS 6496 : 1984 and BS EN 12206-1 : 2004. By only using suppliers offering these high standards, we can be certain of a long life product finish.





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All products designed and manufactured in the UK.