

SHEV Services

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PGV Krystalite Glazed Louvre

Smoke & Natural Ventilator

TESTED TO BS-EN 12101:Part 2 2003

The Krystalite glass louvre is a product which in itself is a system □ easily extended and adapted to integrate with 21st century structures.

Not only is it suitable for installation into all types of vertical glazing and curtain walling façades; its slimline profile easily adapts for integration into non glazed composite structures and blends equally with traditional building designs.

The Krystalite glass louvre system offers the design team unique opportunities to specify inconspicuous units which will fulfill any natural and or smoke ventilation requirement.

The Krystalite is an environmentally friendly product incorporating all the recyclable and sustainable elements of aluminium and the efficient thermal properties of polyamide thermal break. Thus you have a high performance thermally efficient product. It is the perfect solution for modern day buildings.

Krystalite installations give the occupants good daylight, efficient natural ventilation and the confidence that in an emergency, they can be used as part of a natural Smoke and Heat Exhaust Ventilation System (SHEVS).

Product Specification

Construction

- Extruded Aluminium

Sizes

You can choose the height and width of Krystalite needed in your structure. Additional modules can be joined together with a system of coupling mullions and transoms for horizontal and vertical joining of units forming a glass louvre façade of almost infinite dimensions.

Controls

The Krystalite is available with either of the following control options.

- Pneumatic
- Electric
- Manual hand lever

Finish Options

- Naturally anodised
- Polyester powder coated to a standard BS or RAL colour.

Installation

The Powmatic Krystalite is supplied fully assembled ready for installation on site. It can be installed vertically into either of the following applications:

- Glazing Systems & Facades
- Curtain Wall Frames
- Block Work Openings

Optional Accessories

- Birdguards - 12mm square galvanised wire mesh.
- Security Bars/Guards - 16mm Ø solid steel bar.
- Insect Mesh - woven aluminium



Design

The Krystalite glass louvre system is designed around a proven combination of aluminium blade channels, extruded aluminium frames and adaptors to meet the requirements of specifiers. This aesthetically pleasing product matches modern building design coupled with high integrity engineering whilst meeting all technical standards.

The concealed blade operating mechanism housed within the perimeter frame gives the louvre a clean uncluttered appearance. When closed the security blade channels prevent removal of glass blades and all fixings are concealed and inaccessible.

Louvre Options & Certification

Louvre Options	Tested To
G6 / G8 Single Glazed	Natural Vent Only
G12 Single Glazed	EN-12101
TG24 / TG28 / TG32 Twin Glazed	EN-12101
Insulated Aluminium Panels	Natural Vent Only

Control Options & Certification

The Krystalite is available with either of the following control options.

Control Options	Tested To
24v Electric Drive Open/Drive Close	EN-12101
230v Electric Drive Open/Drive Close	EN-12101
Pneumatic Air To Open	Natural Vent Only
Pneumatic Air To Close	Natural Vent Only
Manual hand lever	Natural Vent Only

Testing

The Krystalite have been tested to BS EN 12101 □ Part 2: 2003: Specification for natural and heat exhaust ventilators.

Test	Class	Test	Class
Reliability	RE- 1000	Temp (Low)	T (0.0°C)
Wind Load	WL - 2500	Temp (High)	B-300 - E

Additionally The Krystalite has been independently tested in accordance with European standards EN 12207 and EN12208 for air and water tightness, structural stability and wind loading tests.