

Krystalite

N-SHEV Glazed Louvred Ventilator Smoke & Natural Ventilator

Tested to BS-EN 12101: Part 2: 2003



Overview

Our most advanced architectural smoke and natural ventilator which combines aesthetics, function and fire safety for facade building integration. The aesthetically pleasing product matches modern day design with high performance. Making it a perfect cost effective solution for replacing window systems whilst adding the ability of smoke ventilation.

Product Specification

Construction

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.

Sizing

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 facade of almost infinite dimensions.

Controls

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

- Pneumatic
- Electric
- Manual hand lever

Finish Options

The Krystalite is available in various finishes. This includes various glazing options from single to triple glazing as well as insulated aluminium. The frame colour is completely customisable allowing the Krystalite to effortlessly blend into any application. The colour finishes are natural anodised or Polyester powder coated to a standard RAL colour.

U-Values & dB(a)

The Krystalite offers excellent U- values to keep the buildings appropriately insulated. For example the DG24 offers U-Value of 1.1W/m²K whilst the TG34 offers U-Values of 0.5W/m²K.

The Krystalite offers an impressive noise reduction of up to 41dB(a) which allows for far greater acceptance from building standards and authorities in modern buildings.

Glass & Panel Types

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

Louvre Options	Tested To
G6 / G8 Single Glazed Natural Vent	Natural Vent
G12 Single Glazed EN-12101	EN-12101
TG24 / TG28 / TG32 Twin Glazed	EN-12101
Insulated Aluminium Panels EN12101	Natural Vent

Installation

Installation & Base Types

The Powrmatic 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

Control Options & Certification

The Krystalite is available with the following standard controls:

Control Options	Tested To
24v Electric Drive Open/Drive Close Actuators (Chain Or Spindle)	EN-12101
Pneumatic Air To Open / Air to close	Natural vent only

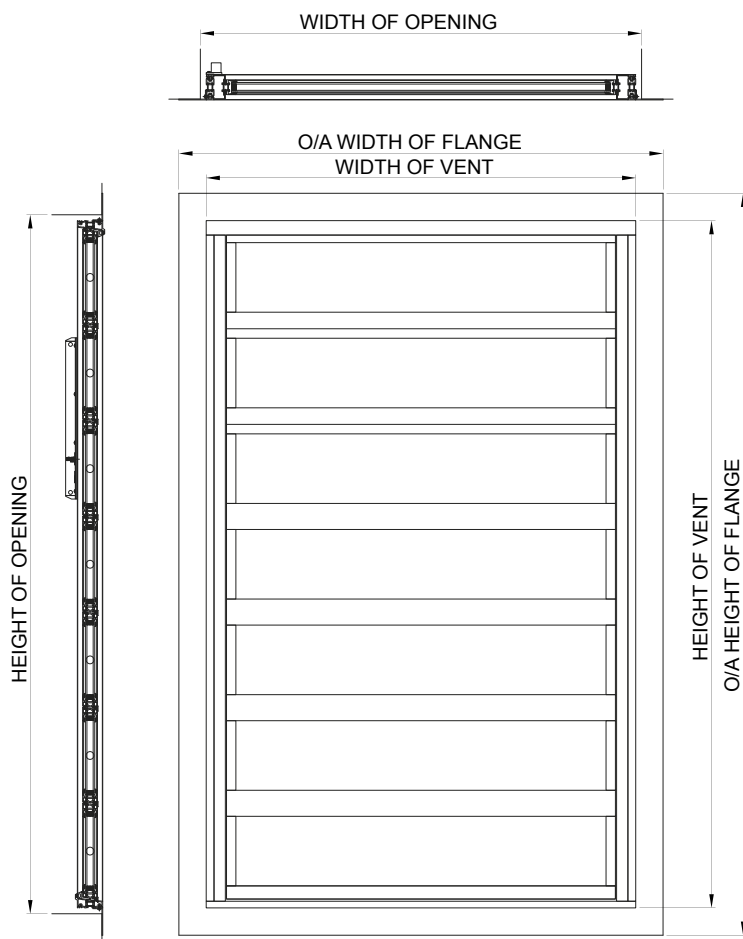
Testing

The Krystalite has 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 (0.00 °C)
Wind Load	WL-2500	Temp (High)	B-300-E

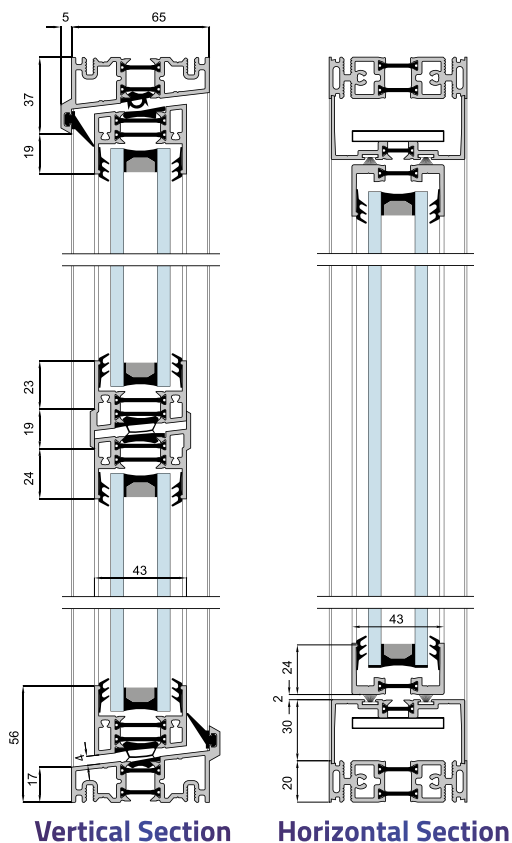
Technical Drawings

Kyrstalite Glazed Louvred Ventilator



Double Glazed DG24

Double Glazed 24mm
EN12101-2 Tested

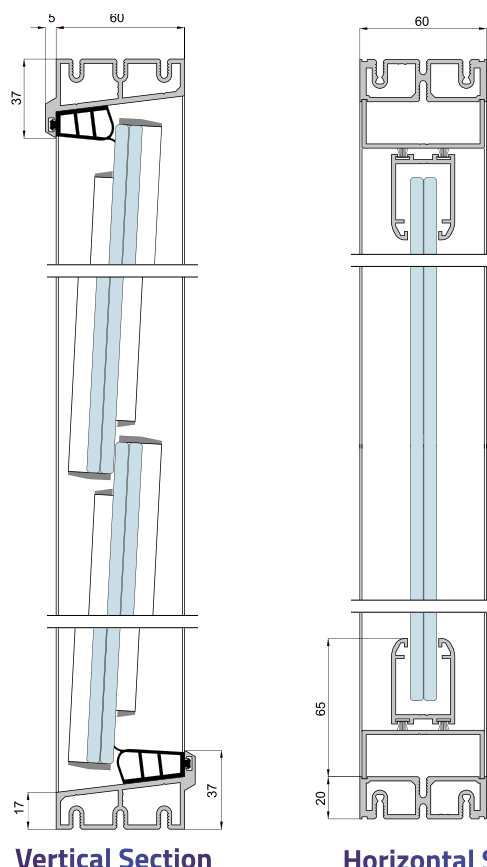


Vertical Section

Horizontal Section

Single Glazed G12

Single Glazed 12mm
EN12101 -2 Tested



Vertical Section

Horizontal Section