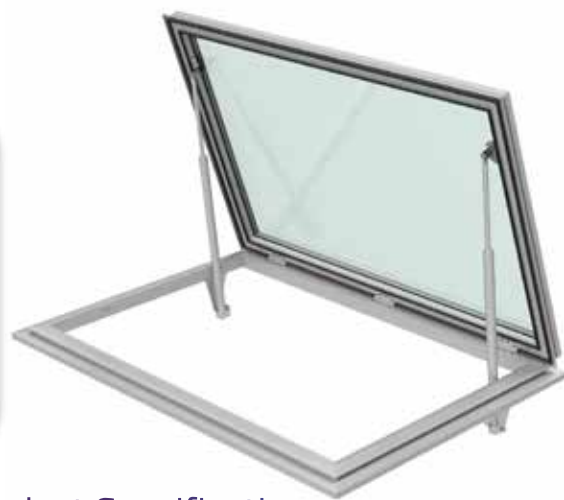


Stirling

Casement Ventilator Smoke & Natural Ventilator

Tested to BS-EN 12101: Part 2: 2003



Overview

The Stirling smoke and heat exhaust ventilator (SHEV) is constructed from extruded AW 6063-T6 aluminium alloys manufactured to EN775 specification. Incorporated within the extrusion profiles is provision for dual weather sealing, control mechanism attachment, hinge location and standard glazing bead and gasket for various size glass and insulating panels.

Design

In developing the Stirling we have created a product which in itself is a system. All Stirling units can be fitted both horizontally and vertically and are available in standard form for pocket glazing into all 24, 28 and 32mm curtain wall and roof glazing systems.

The product can blend into building structures whilst maintaining the highest specification standards. This affords the designer creativity in the use of high performing, thermally efficient products. It has been specifically designed to meet both the functional and aesthetic demands of the modern construction industry and provides the perfect blend of performance, versatility and aesthetics.

Panel Options

Panel Options	Tested to
Double Glazed Panel	EN-12101
25mm insulated aluminium panel	EN-12101
25mm multi wall polycarbonate	EN-12101

Performance

The following performance attributes follows tests to EN 12101-2:2003 (the standard for smoke and heat exhaust ventilators). The exact performance attributes will depend on the chosen size, controls and flap type.

Test	Class	Test	Class
Reliability	RE-1000	Resistant To	B300
Wind Load	EN-12101	Resistant To Fire	EN-13501-1
Snow Load	EN-12101	Low Temp Class	T (-5°C)
U-Value	1.2 W/(m²K) (Coated & argon filled 8.8m / 14mm / 6.6mm)		
Air Permeability	0.312m³/hr/m² at 50 Pa (to EN 12207:1999)		
Water Tightness	Class 9 A - No leaks at static pressure of up to and including 600Pa (to EN 12208:1999)		

Product Specification

Construction

Extruded Aluminium

Sizes & Weights

Smoke Ventilation - Available in increments from 500 mm to 2000 mm high and 500 mm to 1350 mm wide depending on orientation and application.

Natural Ventilation - Larger sizes are available for natural ventilation depending on orientation and application. contact Powrmatic for more information

Controls

The Stirling is supplied with electric 24v electric drive open/ drive close Acuator (chain or spindle tested to BS-EN12101).

Finish Options

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

Glass & Panel Types

The Stirling can be fitted with either of the following: (Glass thickness can range from 9 to 48mm)

- Single Glazed
- Double Glazed
- Triple Glazed
- Insulated Or Un-Insulated Aluminium
- Polycarbonate

Installation

The Powrmatic Stirling vent can be installed vertically or horizontally 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