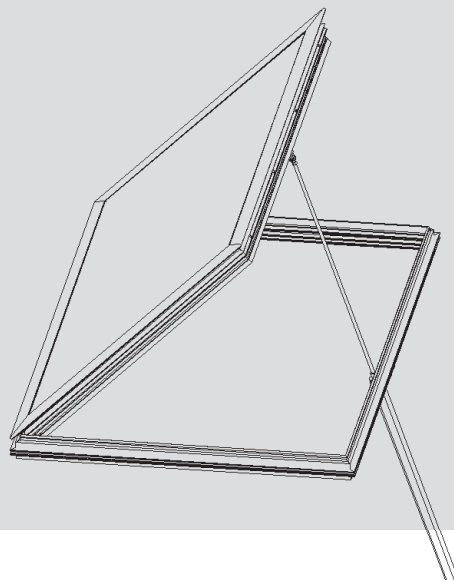


Firelight 3

Natural casement ventilator



HIGH AERODYNAMIC, ACOUSTIC AND THERMAL PERFORMANCE

DESCRIPTION

Firelight is natural casement ventilator, suitable for natural day to day ventilation and smoke control. It has high aerodynamic, acoustic and thermal performance, providing extract ventilation for most kinds of industrial and commercial buildings. It is particularly suited for installation into glazing systems. Firelight has either a single or a double flap.

Firelight has been tested according to EN 12101-2 and is CE marked as a smoke and heat exhaust ventilator as well as a window in accordance with EN 14351-1.

CONSTRUCTION AND FLAPS

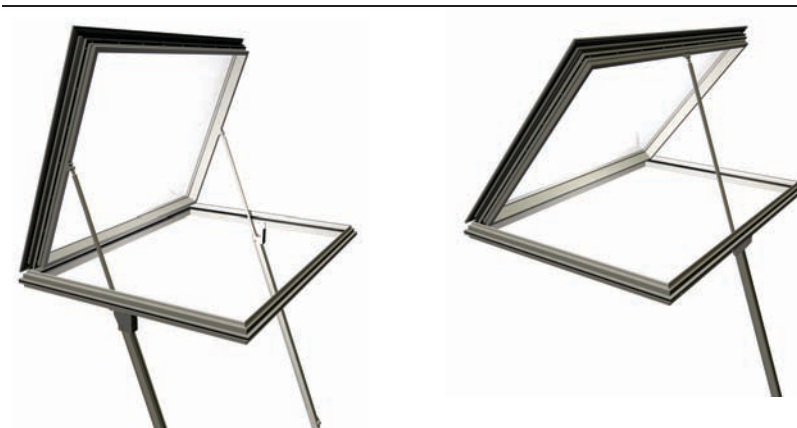
All principal components of the base and flap are manufactured from EN AWW-6063-T6 aluminium alloy. Both the outer frame and flap frame are thermally broken. The following kinds of flaps are available:

- Double glazed
- Triple glazed
- Polycarbonate
- Infill panel: either insulated or uninsulated aluminium

Almost any kind of panel can be incorporated into the flap. The only restrictions are the panel thickness (10mm to 50mm) and a maximum panel weight of 60 kg/ m² with a maximum flap area of 5m² and an overall max. weight of 253 kg. Fixing flanges are between 24 and 48mm.

PRINCIPAL FEATURES AND BENEFITS

- Wide range of applications
- High performance
- Tested and certified for top performance
- Proven performance
- Efficient and weather resistant
- Easy to install
- Durable
- Low in maintenance



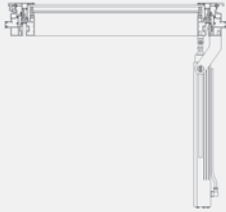
Top
FL3 with chain drive controls

Middle left
FL3 with side controls

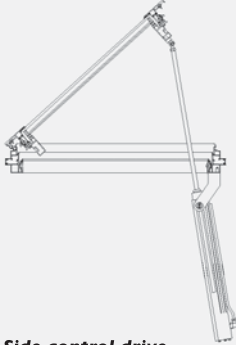
Middle right
FL3 with MIB24 central controls

Bottom
FL3 with control channel controls

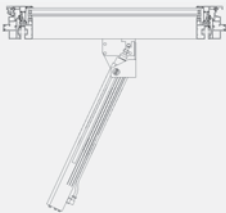
Linear drive



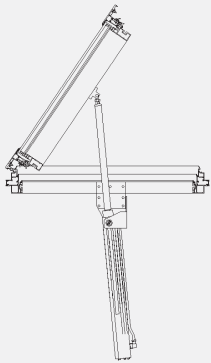
Linear drive open



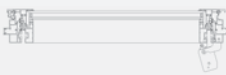
Side control drive



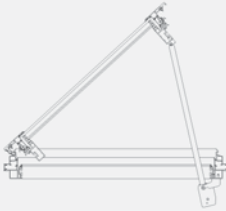
Side control drive open



Chain drive



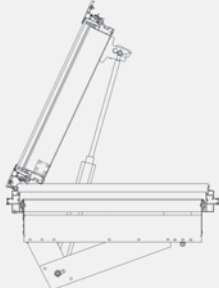
Chain drive open



Control channel control drive



Control channel control drive open



FLAPS / CONTROLS

- Single flap
- Single flap with side control
- Double single flap
- Flap with side control
- Chain drive, mechanism within the frame
- Controls hidden within control channel

DIMENSIONS

From 600 mm to 3000mm in width
From 600mm to 2500mm in length

These are the maximum overall ventilator sizes:

- 5 m² with 24V DC actuator(s) or pneumatic cylinder(s) opposite the hinges.
- 4 m² with 2 electric actuator(s) on the side (side control option).

These dimensions depend upon the type of flap, the geometry of the ventilator and its opening angle.

INSTALLATION

Firelight is designed to be installed principally on to a roof at any angle between 0° and 110° to the horizontal plane. Its many different flange types make it easy to install into almost any roofing or glazing system or onto any type of curb.

FINISHES

- Mill finish, standard
- Polyester powder paint to a RAL colour, standard 60 mu
- Anodised, standard 20 mu

PERFORMANCE DETAILS

Reliability class	Re 1000
Wind load class	Varies with size and options, min WL 1500, Max WL 10000
Snow load class	Varies with size and options, min SL 125, Max SL 5000
High temperature class	B 300
Low temperature class	T(00) to T(-25)
Materials resistance to fire	E (to EN 13501-1)
U value	Up to 1.0 W/m ² K
Aerodynamic coefficient	Up to 0.64
Air permeability	Air permeability Class 4 - Maximum of 0.05 m ³ /hr/m or 0.1 m ³ /hr/m ² at 100 Pa (to EN 12207:1999)
Resistance to wind load	Class 5C to EN 12211 - best in class
Water tightness	Class 9A - No leaks at static pressure of up to and including 600Pa (to EN 12208:1999)
Sound insulation	Weighted sound reduction index R'w up to 42 (-1;-2) dB

CONTROLS

- Pneumatic (for smoke and day to day ventilation)
- 24V DC linear drive electric (for smoke and day to day ventilation)
- 24V DC chain drive electric (for smoke and day to day ventilation)
- 230V AC electric (for day to day ventilation only)
- Manual (for day to day ventilation only)

Either double-action locking mechanisms, or failsafe open (pneumatic version only).

If used as a smoke ventilator, activation is either by local thermal fuse which opens the unit at a pre-selected temperature, or by responding to an external release signal.

All controls, except the chain drive version, are visible when the ventilator is closed whether the configuration is on the side, on top or underneath.

PERFORMANCE

Firelight has been tested to and in compliance with EN 12101-2 and is CE marked.

The performance attributes shown on the table below follow tests to EN 12101-2:2003 (standard for smoke and heat exhaust ventilators) and EN 14351-1:2006 (standard for windows and doors).

The exact performance attribute will depend on the chosen size, controls, and flap type.