

EVALITE SMOKE VENTILATION

TECHNICAL DATA

Ventilation of escape stairs is important. This will assist the fire service during fire fighting operation and for smoke clearance after the fire has been extinguished.

The efficiency of the ventilation is determined by the prevailing wind. It is for this reason that the fire services has full control of the opening and closing of the ventilators on arrival at a building.

Evalite Smoke Release Hatch Tested to BS 7346:Part 1:1990 at Warrington Fire Global Safety	
Type	Hatches suitable for all types of flat/pitched roofs.
Frame	Aluminium, aluminium to BS 1474:1987 Alloy 6063-T6.
Upstand Finish	Dark grey – XTEVA coated – Aluminium.
Colour	Polyester powder coated to BS 6496 Interpon D36 range. RAL 9010 white matt or any standard RAL colour.
Kerb	FR1 ICB proprietary aluminium upstand 400mm high. This kerb is painted white internally. The upstand is insulated externally with aluminium. Depth of upstand can be changed to suit your particular requirements. BU1 ICB proprietary aluminium upstand 150mm high. This kerb is painted white internally. The upstand is insulated externally with insulation encapsulated in aluminium. The flange width can be modified to meet your needs.
Lid	Type A Insulated aluminium lid. Type B Double glazed glass lid comprising 6.0mm clear toughened outer, 16mm air gap argon filled, 6.4mm low 'E' laminate inner. Type C Polycarbonate (not Scotland due to Building Regulations).
Fragility	They have been tested and are classed as NON-FRAGILE Class B to ACR(M)001:2005 Test for Fragility of Roofing Assemblies.
Fire Rating	ICB Solus Smoke hatches comply to all current regulations and are TESTED TO BS EN 12101-2:2003 AT EXOVA WARRINGTON FIRE GLOBAL SAFETY along with complying to NON FRAGILE Class B to ACR(M)001:2005 Test for Fragility of Roofing Assemblies.
Roof Opening	1050 X 1050 (1m ²) or other dimensions to meet your requirements.
Operation	24 Volt high temperature linear actuators.
Other Requirement	Control panel with 240V/24V transformer, 1Amp/Hr battery backup in event of mains failure. Battery trickle charged to ensure 100% charge. Single zone with 1 fireman's switch. Additional switch at top landing if required.
Fixing	In accordance with ICB fixing recommendations.

All Rooflights have been tested at BRE and are manufactured to: BS EN 6375-1:2009 Weather Tightness; BS EN 1026 / 12207:2000 Air Permeability; BS EN 1873 / 12208:2000 Water Tightness; BS EN 12210:2000 Wind Resistance; BS EN 1991-1 Snow Load; BS EN ISO 140 Acoustic; BS EN 1627-1630 Security.

ICB (Waterproofing) Ltd.
Unit 9 -11, Fleets Industrial Estate, Willis Way, Poole, Dorset, BH15 3SU UK
Tel: 01202 785200 Fax: 01202 785201 Email: info@icb.uk.com

www.icb.uk.com

EVALITE SMOKE VENTILATION TECHNICAL DATA

An escape stair within a protected zone should have either;

- a) A ventilator of not less than 1m² at the top of the stair
- b) An opening window at each storey (openable area 0.5m²)

In cases where the building consists of more than one upper floor then two firemen switches must be used (NBS Spec Smoke Hatch) and (Drawing details) one on the ground floor and one on the top floor level of the building.

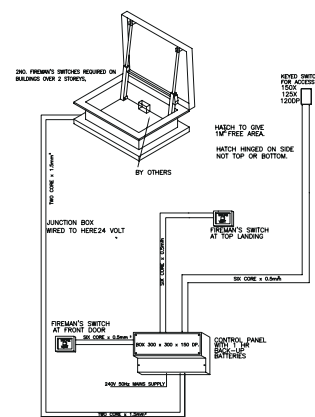
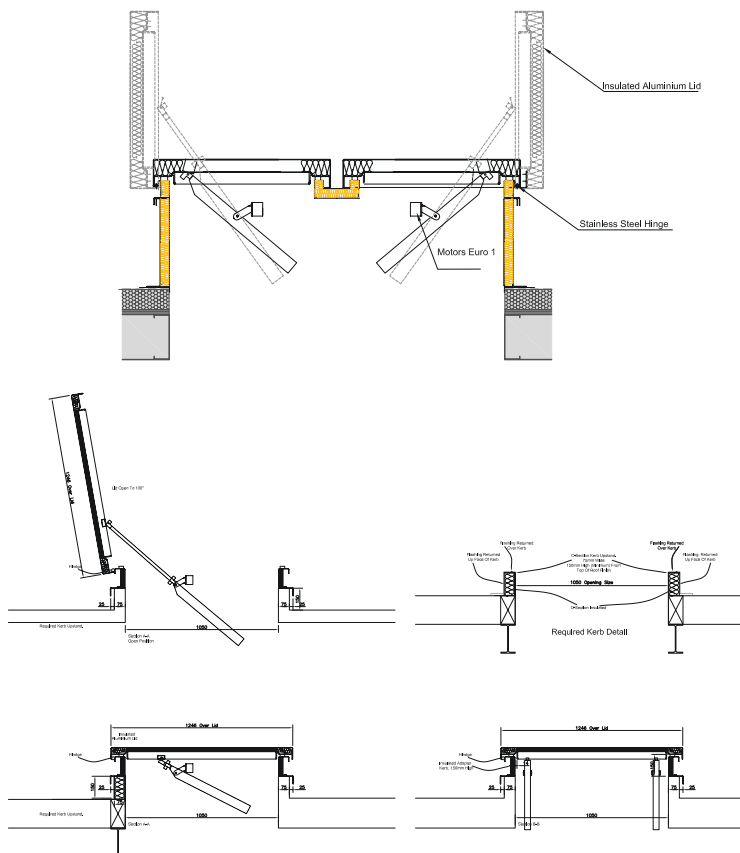
Our Smoke hatches not only provide a control for smoke egress they can act as an Access hatch due to the options built into the control panels. They can also act as a rooflight over a stairwell with glass lids replacing the Aluminium standard lid (To comply with Non-Fragile, the glass must increased to 8mm toughened if required).

Thermostatic materials in ceilings, rooflights can provide a fire hazard due to burning droplets and normally dense toxic smoke. When tested to BS 2782 method 120A, thermostatic materials with a softening point of below 200°C, because of this thermostatic materials (polycarbonate) should not be used in Protected Zones i.e Smoke Hatches above stairwells.

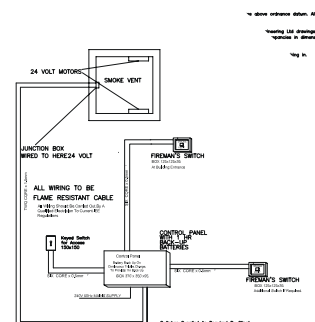
EVALITE SMOKE VENTILATION FIXING DETAILS

The following diagrams show typical Smoke Ventilation fixing details. Other details upon request.

Internal sizes along with kerbs and upstands can be made to suit individual requirements.



Electrical Wiring



All Rooflights have been tested at BRE and are manufactured to: BS EN 6375-1:2009 Weather Tightness; BS EN 1026 / 12207:2000 Air Permeability; BS EN 1873 / 12208:2000 Water Tightness; BS EN 12210:2000 Wind Resistance; BS EN 1991-1 Snow Load; BS EN ISO 140 Acoustic; BS EN 1627-1630 Security.

ICB (Waterproofing) Ltd.
Unit 9 -11, Fleets Industrial Estate, Willis Way, Poole, Dorset, BH15 3SU UK
Tel: 01202 785200 Fax: 01202 785201 Email: info@icb.uk.com

www.icb.uk.com