



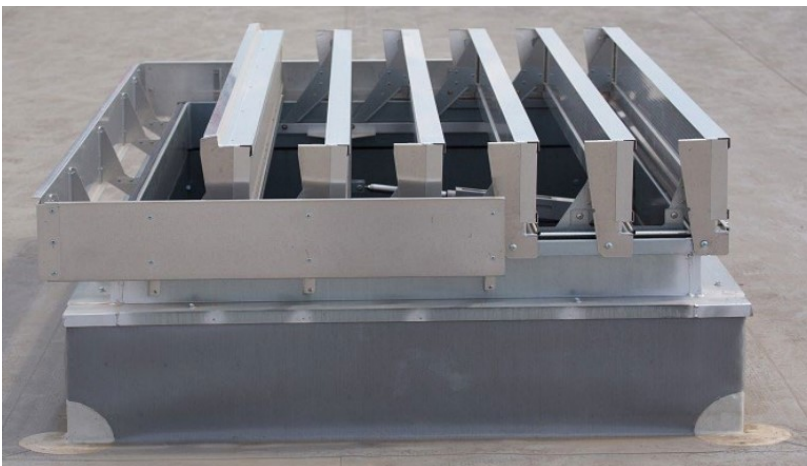
FLOW-SMOKE

The High Performance Automatic Opening Louvre Vents
BS EN12101 certified Smoke Ventilation Units

The All New **Flow-Smoke** AOV smoke Vents

FEATURES:

- High Free Vent Area
- Certified to EN12101-2
- CE Marked
- Welded Construction
- 10,000 operation Guaranty
- Third Party certified
- Simple to Install
- Conforms to SCA guidance
- Fast Delivery on standard sizes
- Made in the EU



We are proud to launch the next generation in Smoke Control Louvres Vents (AOVs). The Flow-Smoke range of BS EN12101—2 certified AOV units are available in a selection of sizes to suite any application from Roof Mounted stair-well smoke ventilation to wall mounted units.

We supply them in instigated and non insulated construction, Clear, Opal or solid blades to let light in where required.

The units are weather proof and are no affected by high winds, unlike flapped units.

Actuation can be in reverse polarity 24 volt (the norm) or 240 volt switched live options.



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Air Pressure Solutions Ltd, The Granary, Filston Farm, Filston Lane, Sevenoaks, Kent. TN14 5JU (UK)
T: 0044 (0) 1732 757431, E: sales@airpressuresolutions.co.uk
Also see us on Facebook and LinkedIn



TECHNICAL SUPPORT

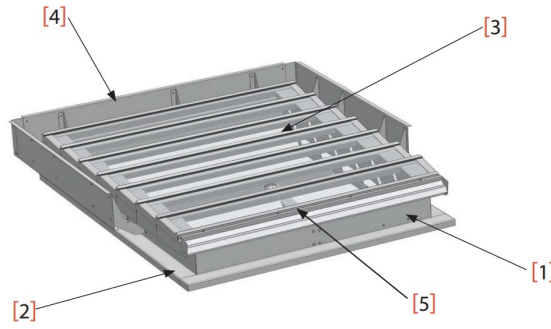
We offer full technical design support and can calculate your fire load and system design and flow rates

DESIGN CALCULATOR

We can offer you a full design service to meet any requirements. All design are provided with system drawings and a full design calculation report. We can also offer CFD modeling

CONTACT DETAILS

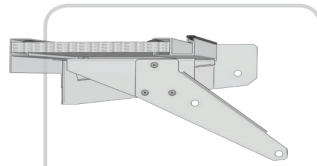
T: 0044 (0) 1743 757431
 E: SALES@AIRPRESSURESOLUTIONS.CO.UK



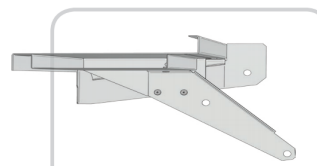
- [1] base
- [2] flange
- [3] blades
- [4] wind deflector
- [5] actuator

Fig. Construction of louvered vent

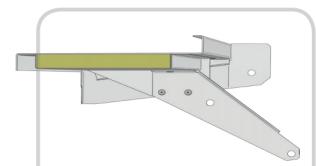
Parameters	Description
Re 300	Reliability, 300 cycles of opening and closing to the smoke extraction position (vent with E1 electric control and C1, C2 pneumatic control).
Re 1000	Reliability, 1000 cycles of opening and closing to the smoke extraction position (vent with C3 pneumatic control with gas spring).
Re 10 000	Reliability, 10 000 cycles of opening and closing to the ventilation position (dual purpose ventilator).
SL SL 250 ÷ 1300 SL 550 ÷ 2000 SL 125 ÷ 250 SL 0	Guaranteed operability under snow load [N/m ²] - vents equipped with E1 electric control - vents equipped with C1, C2 pneumatic control - vents equipped with C3 pneumatic control with gas spring - independent facade vents
WL WL 1500 WL 3000 WL 4000	Guaranteed operability of vents under wind load [N/m ²] - whole range - vents with a maximum of 12 blades, each 150 cm long - vents with a maximum of 12 blades, each 100 cm long
B 300	Vent resistance to high temperatures (300 °C).
E	Vent fire class.
T(-25) or T(00)	Vent resistance to low temperatures (-25 °C or 0 °C).
Aa	Active area of smoke extraction.
60 s	Maximum vent's opening time to the working position.



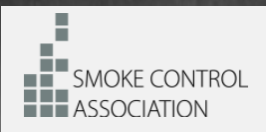
[filling:]
 16 mm thick cellular polycarbonate (opal or transparent) - PCA16

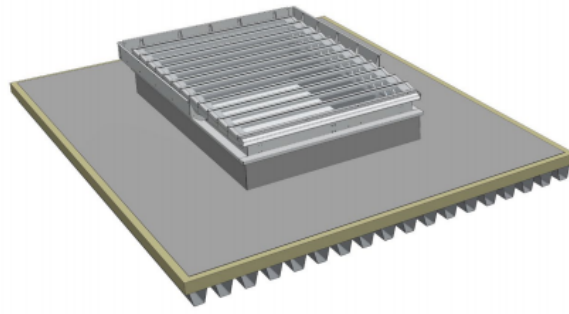


[filling:]
 made of non-insulated aluminium profiles (non-transparent filling) - SO



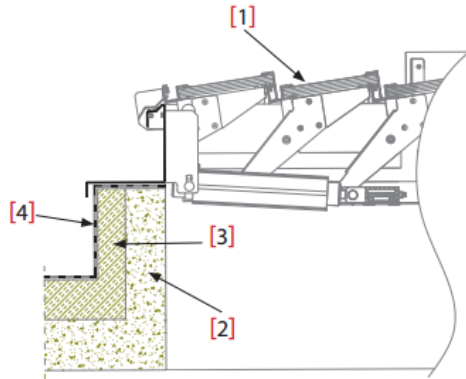
[filling:]
 made of formed aluminium sheet profiles, insulated with 20 mm thick extruded polystyrene (non-transparent filling) - SO+XPS





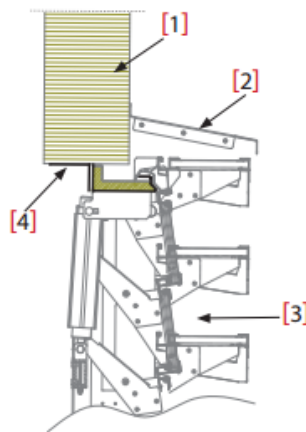
Louvered vents can be installed either on roofs or in facades. The installation method depends on the construction of the building. It is possible to install louvered vents on plinths, roofs covered with profiled steel sheets as well as roofs with bituminous or membrane roofing.

Before assembly of the vent user should get acquainted with guidelines described in operation and maintenance manual provided by producer.

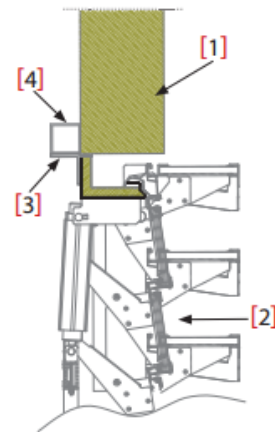


- [1] louvered vent
- [2] plinth on the roof
- [3] thermal insulation of the plinth
- [4] waterproof insulation of the plinth and the roof

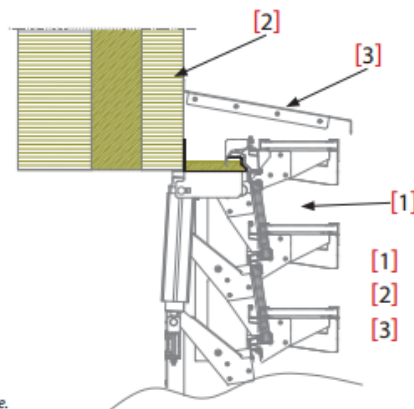
Fig. Installation of a non-insulated overlay base on an existing plinth.



- [1] wall (facade)
- [2] rain shield (optional)
- [3] louvered vent
- [4] fixing angle profile



- [1] wall (facade)
- [2] louvered vent
- [3] fixing angle profile
- [4] support structure



- [1] louvered vent
- [2] wall (facade)
- [3] rain shield (optional)

Fig. Examples of installation louvered vents in facade.



AESTHETIC QUALITIES

- numerous colour options are available – powder coating enables clients to choose custom colours from RAL colour system

MULTI-FUNCTIONALITY

- smoke extraction
- air- supply
- daily ventilation
- a single vent can serve smoke extraction or aeration functions as part of the smoke extraction and daily ventilation system in non-fire conditions
- additional illumination in buildings by using polycarbonate blades

ECO-FRIENDLINESS

- low power and compressed CO₂ consumption
- the product does not contain any harmful substances and is recyclable

RESISTANCE

- to wind load (up to WL = 4000 N/m²), allowing installation on high buildings
- to impact (up to 1200 J)
- to corrosion (aluminium bases are equipped with aluminium rivets and stainless steel connectors)
- to heavy snow load (up to SL=2000 N/m²)
- wind deflectors resistant to vibrations caused by wind or rain

ASSEMBLING IN MANY OPTIONS

- vents can be installed in facades and roofs with any inclination angle
- vents can be used in roof and facade openings with area up to 9.5 m² (vent dimension range from 80 x 50 cm to 380 x 250 cm)
- a wide range of flange types enabling installation of vents on various types of roofing and facades
- available width of flanges: from 7 to 32 cm
- easy installation – the client receives a preassembled product that does not require further processing on site
- the product does not interfere with other roof equipment – blades of louvered vents do not exceed geometrical dimensions of the device, which is especially important on roofs of tall buildings or roofs with many other objects

HIGH QUALITY

- the production process is managed in accordance with ISO 9001 standard
- each vent is subject to thorough quality control before shipment to Clients
- certified product in accordance with EN 12101-2 standard in an accredited FIRES laboratory

List of current of electric actuators 24V (type E1)*

Light entrance dimensions width x length [mm x mm]	current consumption of electric actuator for load class				
	SL 750 [A]	SL 550 [A]	SL 250 [A]	SL 125 [A]	installation in facade [A]
800x500	0,8	0,8	0,8	0,8	0,8
1000x1000	1,0	0,8	0,8	0,8	0,8
1000x2000	2,0	1,3	0,8	0,8	0,8
1400x1400	2,0	1,3	0,8	0,8	0,8
1800x2000	2x2,0	2x1,3	1,3	1,3	1,0
2000x2500	2x2,0	2x2,0	1,3	1,3	1,3
3000x2000	-	2x2,6	2,6	2,6	1,3
3000x2500	-	-	2x1,3	2x1,3	1,3
3800x2500	-	-	-	2x1,3	2x0,8

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SMOKE CONTROL ASSOCIATION

