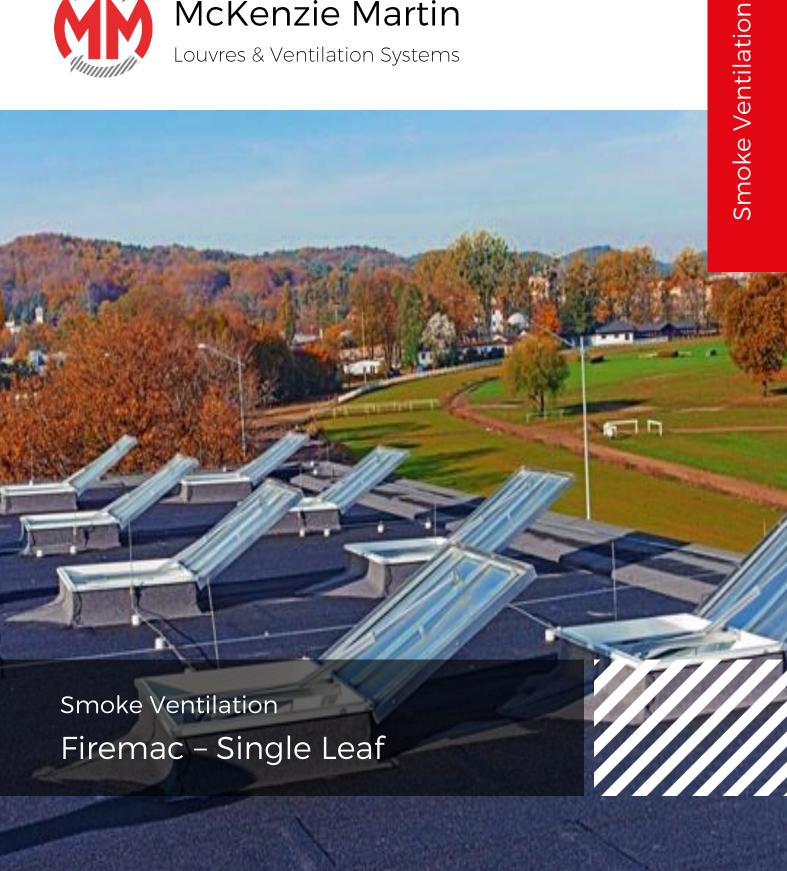


McKenzie Martin

Louvres & Ventilation Systems



Firemac - Single Leaf

application for this unit.



Description

The Firemac Single Flap Ventilator is suitable for both natural and smoke extraction purposes. Various options are available within the range providing flexibility and choice for the designer and customer. These include insulated and uninsulated versions along with units incorporating translucent polycarbonate tops for providing natural daylight. A further option is a unit with offset actuators to allow personnel access to rooftop areas.

The variety of options and low profile appearance make the Firemac suitable for industrial buildings, shopping centres and atria. Smoke exhaust from stairwells is an ideal



Sizes & Free Area

Single leaf Firemac units are manufactured in the following sizes to suit most requirements,

Square units (Type C) -

1000mm x 1000mm to 2000mm x 2000mm

Rectangular units (Type E) -

1000mm x1200mm to 2000mm x 2500mm With the use of wind baffles it is possible for the units to achieve an aerodynamic free area of 3.24m² (Type C) or 4.05m² (Type E)

Unit Options

The Firemac system can be fabricated from either Aluminium or Galvanised Sheet Steel. The internal structures can be provided either with or without insulation and the opening flap of each unit is available in the following options;

- Polycarbonate Structured Sheets
- Layered Insulated Sheets
- Double Glazing

Control options for the Firemac are:

- 24vDC Electrical Actuation
- Pneumatic Actuation
- 230v Electrical Actuation (Natural Vent Models Only)

Mesh Options;

- Bird Mesh
- Insect Mesh
- Anti-Burglar Bars



Firemac – Single Leaf



Sizes, Free Areas and Motor Loads

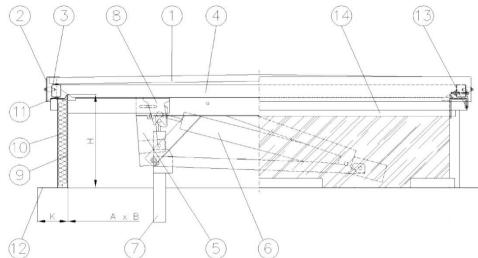
Nominal Dims A x B (mm) 1000 X 1000 1000 X 1200 1200 X 1200 1250 X 1250 1300 X 1300 1350 X 1350 1400 X 1400 1500 X 1500 1550 X 1550 1600 X 1600 1700 X 1700 1800 X 1800	(Without fairing H = 500mm	ngs or actuator) H = 300mm 0.64 0.75 0.86 0.91 0.97 1.03 1.09 1.22 1.29 1.36	by Snowl SL 250 1 X 2.0 1 X 1.0 2 X 1.3 2 X 1.3 2 X 1.3 2 X 1.3 2 X 1.6 2 X 2.6 2 X 2.6	nption (Amps) oad Class SL 500 1 X 2.6 1 X 4.0 2 X 2.0 2 X 2.6 2 X 2.6 2 X 2.6 2 X 2.6
(mm) 1000 X 1000 1000 X 1200 1200 X 1200 1250 X 1250 1300 X 1300 1350 X 1350 1400 X 1400 1500 X 1500 1550 X 1550 1600 X 1600 1700 X 1700 1800 X 1800	H = 500mm 0.72 0.85 0.98 1.05 1.13 1.20 1.28 1.44 1.52 1.60	H = 300mm 0.64 0.75 0.86 0.91 0.97 1.03 1.09 1.22 1.29	SL 250 1 X 2.0 1 X 1.0 2 X 1.3 2 X 1.3 2 X 1.3 2 X 1.3 2 X 1.6 2 X 2.6 2 X 2.6	SL 500 1 X 2.6 1 X 4.0 2 X 2.0 2 X 2.6 2 X 2.6 2 X 2.6
1000 X 1000 1000 X 1200 1200 X 1200 1250 X 1250 1300 X 1300 1350 X 1350 1400 X 1400 1500 X 1500 1550 X 1550 1600 X 1600 1700 X 1700 1800 X 1800	0.72 0.85 0.98 1.05 1.13 1.20 1.28 1.44 1.52 1.60	0.64 0.75 0.86 0.91 0.97 1.03 1.09 1.22 1.29	1 X 2.0 1 X 1.0 2 X 1.3 2 X 1.3 2 X 1.3 2 X 1.3 2 X 1.6 2 X 2.6 2 X 2.6	1 X 2.6 1 X 4.0 2 X 2.0 2 X 2.6 2 X 2.6 2 X 2.6
1000 X 1200 1200 X 1200 1250 X 1250 1300 X 1300 1350 X 1350 1400 X 1400 1500 X 1500 1550 X 1550 1600 X 1600 1700 X 1700 1800 X 1800	0.85 0.98 1.05 1.13 1.20 1.28 1.44 1.52 1.60	0.75 0.86 0.91 0.97 1.03 1.09 1.22 1.29	1 X 1.0 2 X 1.3 2 X 1.3 2 X 1.3 2 X 1.3 2 X 1.6 2 X 2.6 2 X 2.6	1 X 4.0 2 X 2.0 2 X 2.6 2 X 2.6 2 X 2.6
1200 X 1200 1250 X 1250 1300 X 1300 1350 X 1350 1400 X 1400 1500 X 1500 1550 X 1550 1600 X 1600 1700 X 1700 1800 X 1800	0.98 1.05 1.13 1.20 1.28 1.44 1.52 1.60	0.86 0.91 0.97 1.03 1.09 1.22 1.29	2 X 1.3 2 X 1.3 2 X 1.3 2 X 1.3 2 X 1.6 2 X 2.6 2 X 2.6	2 X 2.0 2 X 2.6 2 X 2.6 2 X 2.6
1250 X 1250 1300 X 1300 1350 X 1350 1400 X 1400 1500 X 1500 1550 X 1550 1600 X 1600 1700 X 1700 1800 X 1800	1.05 1.13 1.20 1.28 1.44 1.52 1.60	0.91 0.97 1.03 1.09 1.22 1.29	2 X 1.3 2 X 1.3 2 X 1.3 2 X 1.6 2 X 2.6 2 X 2.6	2 X 2.6 2 X 2.6 2 X 2.6
1300 X 1300 1350 X 1350 1400 X 1400 1500 X 1500 1550 X 1550 1600 X 1600 1700 X 1700 1800 X 1800	1.13 1.20 1.28 1.44 1.52 1.60	0.97 1.03 1.09 1.22 1.29	2 X 1.3 2 X 1.3 2 X 1.6 2 X 2.6 2 X 2.6	2 X 2.6 2 X 2.6
1350 X 1350 1400 X 1400 1500 X 1500 1550 X 1550 1600 X 1600 1700 X 1700 1800 X 1800	1.20 1.28 1.44 1.52 1.60	1.03 1.09 1.22 1.29	2 X 1.3 2 X 1.6 2 X 2.6 2 X 2.6	2 X 2.6
1400 X 1400 1500 X 1500 1550 X 1550 1600 X 1600 1700 X 1700 1800 X 1800	1.28 1.44 1.52 1.60	1.09 1.22 1.29	2 X 1.6 2 X 2.6 2 X 2.6	
1500 X 1500 1550 X 1550 1600 X 1600 1700 X 1700 1800 X 1800	1.44 1.52 1.60	1.22 1.29	2 X 2.6 2 X 2.6	
1550 X 1550 1600 X 1600 1700 X 1700 1800 X 1800	1.52 1.60	1.29	2 X 2.6	
1600 X 1600 1700 X 1700 1800 X 1800	1.60			
1700 X 1700 1800 X 1800		1.50	2 X 2.6	
1800 X 1800	1.7	1.50	2 X 4.0	
	1.95	1.64	2 X 6.0	
11 11 11 1 V 1 4 ()()	0.92	0.80	1 X 1.0	2 X 1.3
1000 X 1300		1		
1000 X 1400	0.98	0.85	1 X 1.0	2 X 1.6
		+		2 X 2.0
				2 X 2.0
1000 X 1900				
1000 X 2000	1.34	1.11		
1000 X 2100	1.40	1.15	2 X 1.3	
1000 X 2200	1.45	1.19	2 X 1.3	
1000 X 2300	1.51	1.23	2 X 1.3	
1000 X 2400	1.56	1.26	2 X 1.3	
1000 X 2500	1.61	1.29	2 X 1.3	
1100 X 2000	1.45	1.21	2 X 2.0	
1150 X 2000	1.50	1.25	2 X 1.3	
1200 X 1400	1.13	0.97	2 X 1.3	2 X 2.6
1200 X1500	1.21	1.03	2 X 1.3	
1200 X 1700	1.35	1.14	2 X 1.3	
1200 X 1800	1.42	1.19	2 X 1.3	
1200 X 2000	1.56	1.30	2 X 1.3	
1200 X 2100	1.63	1.34	2 X 2.0	
	1.69	1.39		
	1.82	1.48		
1300 X 1500		1.10	2 X 1.6	
		+		
		+		
		+		
		+		
	1000 X 1500 1000 X 1600 1000 X 1800 1000 X 1900 1000 X 2000 1000 X 2100 1000 X 2200 1000 X 2300 1000 X 2500 1100 X 2500 1150 X 2000 1200 X 1400 1200 X 1500 1200 X 1700 1200 X 1800 1200 X 2000 1200 X 2200 1200 X 2400	1000 X 1500 1.04 1000 X 1600 1.10 1000 X 1800 1.22 1000 X 2000 1.34 1000 X 2100 1.40 1000 X 2200 1.45 1000 X 2300 1.51 1000 X 2500 1.61 1100 X 2000 1.45 1150 X 2000 1.50 1200 X 1400 1.13 1200 X 1500 1.21 1200 X 1700 1.35 1200 X 1800 1.42 1200 X 2000 1.63 1200 X 2200 1.69 1200 X 2400 1.82 1300 X 1500 1.28 1300 X 1600 1.36 1300 X 1800 1.51 1300 X 1900 1.59 1300 X 1800 1.66 1400 X 1500 1.37 1400 X 1800 1.61 1500 X 1600 1.52 1500 X 1800 1.70	1000 X 1500 1.04 0.90 1000 X 1600 1.10 0.94 1000 X 1800 1.22 1.03 1000 X 1900 1.28 1.07 1000 X 2000 1.34 1.11 1000 X 2100 1.40 1.15 1000 X 2200 1.45 1.19 1000 X 2300 1.51 1.23 1000 X 2400 1.56 1.26 1000 X 2500 1.61 1.29 1100 X 2000 1.45 1.21 1150 X 2000 1.50 1.25 1200 X 1400 1.13 0.97 1200 X 1500 1.21 1.03 1200 X 1700 1.35 1.14 1200 X 2000 1.56 1.30 1200 X 2000 1.63 1.34 1200 X 2100 1.63 1.34 1200 X 2400 1.82 1.48 1300 X 1500 1.28 1.10 1300 X 1600 1.36 1.16 1300 X 1800 1.51 1.27 <td< td=""><td>1000 X 1500 1.04 0.90 1 X 1.0 1000 X 1600 1.10 0.94 1 X 1.0 1000 X 1800 1.22 1.03 1 X 1.0 1000 X 1900 1.28 1.07 1 X 1.0 1000 X 2000 1.34 1.11 2 X 1.3 1000 X 2100 1.40 1.15 2 X 1.3 1000 X 2200 1.45 1.19 2 X 1.3 1000 X 2300 1.51 1.23 2 X 1.3 1000 X 2400 1.56 1.26 2 X 1.3 1000 X 2500 1.61 1.29 2 X 1.3 1100 X 2000 1.45 1.21 2 X 2.0 1150 X 2000 1.50 1.25 2 X 1.3 1200 X 1400 1.13 0.97 2 X 1.3 1200 X 1500 1.21 1.03 2 X 1.3 1200 X 1500 1.21 1.03 2 X 1.3 1200 X 1800 1.42 1.19 2 X 1.3 1200 X 2000 1.56 1.30 2 X 1.3 1200 X 2000 1.63<</td></td<>	1000 X 1500 1.04 0.90 1 X 1.0 1000 X 1600 1.10 0.94 1 X 1.0 1000 X 1800 1.22 1.03 1 X 1.0 1000 X 1900 1.28 1.07 1 X 1.0 1000 X 2000 1.34 1.11 2 X 1.3 1000 X 2100 1.40 1.15 2 X 1.3 1000 X 2200 1.45 1.19 2 X 1.3 1000 X 2300 1.51 1.23 2 X 1.3 1000 X 2400 1.56 1.26 2 X 1.3 1000 X 2500 1.61 1.29 2 X 1.3 1100 X 2000 1.45 1.21 2 X 2.0 1150 X 2000 1.50 1.25 2 X 1.3 1200 X 1400 1.13 0.97 2 X 1.3 1200 X 1500 1.21 1.03 2 X 1.3 1200 X 1500 1.21 1.03 2 X 1.3 1200 X 1800 1.42 1.19 2 X 1.3 1200 X 2000 1.56 1.30 2 X 1.3 1200 X 2000 1.63<



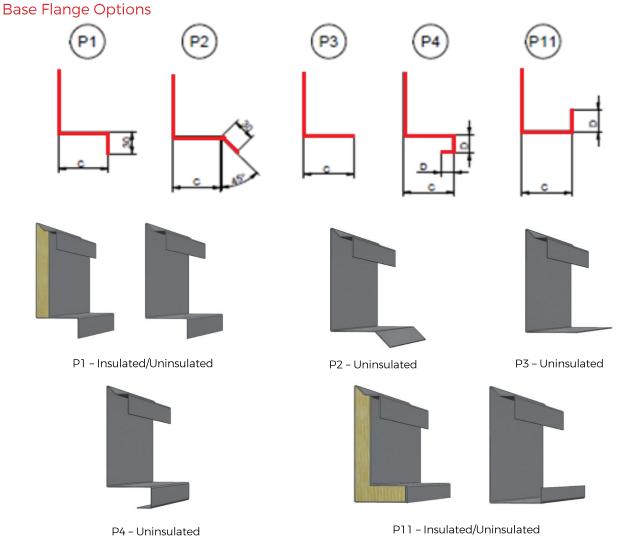
Firemac - Single Leaf



Standard Details



- 1. Filling
- 2. Clamp Frame
- 3. Frame Bearer
- 4. Spreader Boom
- 5. Actuator Holder
- 6. Smoke Exhaust Actuator
- 7. Ventilation Actuator
- 8. Hooked Bracket
- 9. Base
- 10. Base Thermal Insulation
- 11. Leaf Seal
- 12. Base Flange
- 13. Hinge
- 14. External Detailing: zinc-coated galvanised steel

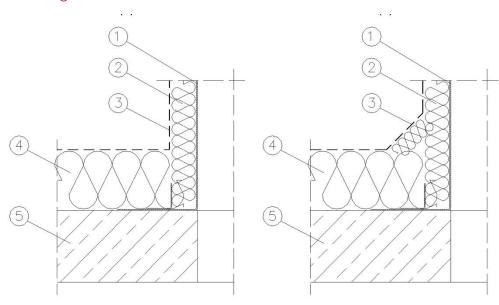




Firemac - Single Leaf

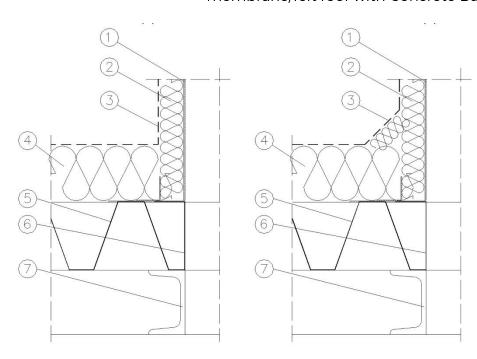


Fixing Details



- 1. Vent steel base
- 2. Base thermal insulation
- 3. Roof works with membrane or felt
- 4. Roof thermal insulation
- 5. Reinforced concrete slab

Standard P1 type flange onto pre-prepared membrane/felt roof with Concrete Base



- 1. Vent steel base
- 2. Base thermal insulation
- Roof works with membrane or felt
- 4. Roof thermal insulation
- 5. Roofing sheet
- 6. Additional roof work
- 7. Steel supporting structure

Standard P1 type flange onto pre-prepared membrane/felt roof with Steel Supports



Firemac - Single Leaf





Specifications

Firemac Single Flap Smoke Ventilator - L10 NBS Spec

Manufacturer: McKenzie Martin Ltd

Product Reference: Firemac Single Flap Vent

Description: Roof mounted smoke/natural exhaust ventilator.

Comprising of external body containing top canopy,

Sizes Available:

Square units (Type C) -

1000mm x 1000mm to 2000mm x 2000mm

Rectangular units (Type E) -

1000mm x1200mm to 2000mm x 2500mm

Maximum Free Area: 3.24m² (Type C) or 4.05m² (Type E)

Material: 1.2mm Aluminium 1050A H14 / Galvanised Sheet steel

Finish: Mill Finish / Polyester Powder Coated / Marine Grade Polyester

Powder Coated

Mesh: Aluminium bird diamond mesh 35 x 12 / Aluminium fly diamond

mesh 3.5 x 2

Operation: Pneumatic Actuation / 230v Actuator / 24v Actuator



McKenzie Martin Ltd. Eton Hill Works.

Eton Hill Road, Radcliffe, Manchester. M26 2US

For more information or to speak to one of our sales advisors call <u>0161 723 2234</u> or email sales@mckenziemartin.co.uk

www.mckenziemartin.co.uk

