

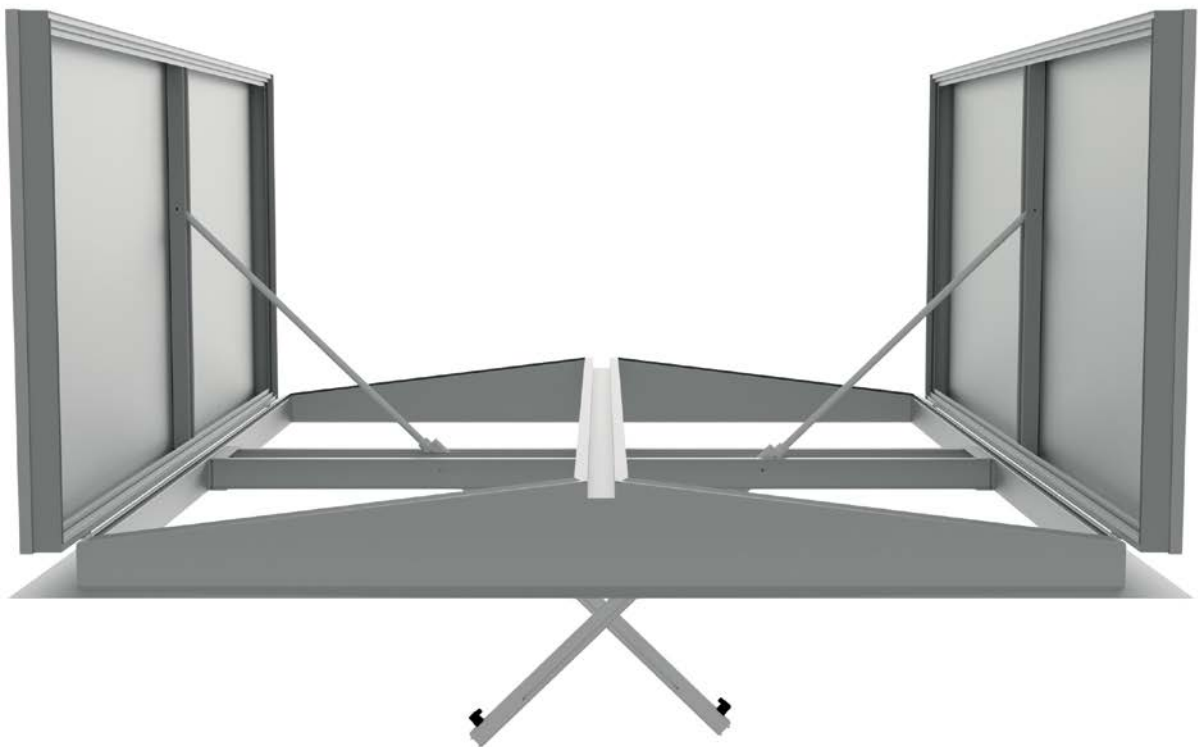


Kingspan Fumetica-S

Double flap ventilator

Data Sheet

Double flap smoke and heat exhaust ventilator with large extraction capacity and flaps at an inclination of 7°



Daylighting Solutions
Natural Ventilation Solutions
Smoke Management Solutions
Service & Maintenance
Building Automation

Application

Kingspan Fumetica-S is an EN 12101-2 certified double flap system, with flaps at an inclination of 7°, suitable for the extraction of smoke and heat, daily ventilation and use as a skylight. Its large dimensions, a geometric surface area up to 7.5 m², makes the Fumetica-S ideally suited to the effective extraction of significant quantities of (polluted) hot air and smoke. A sophisticated production method enables this flap ventilator, which has fall prevention feature in closed position, to be manufactured in any desired dimensions and for every flat build-in application.

Area of application: particularly suitable for distribution centres, storage facilities, production environments and industries where it is important that the product is free of silicones or other similar substances.

High performance for a competitive price

Fumetica-S offers a functional solution, whereby reliability, price and guaranteed performance go hand in hand. You can completely rely on the Fumetica-S for a healthy and (fire) safe indoor climate.

The Fumetica-S is available in different base types, with pneumatic or electric controls, insulated or uninsulated aluminium, or translucent flaps. Fumetica-S Excellent has improved insulation values by using additional insulating flaps.



Technical Specifications

Specifications Fumetica-S - EN 12101-2 certified

									Fumetica-S (un)insulated		
									Weight base and flap in kg		
Type	Throat size Fumetica-S width x length (mm)	Geometric surface (A _g) in m ²	Without upstand		With upstand h=350 mm		With conical upstand h=350 mm ¹⁾		Uninsulated aluminium	Insulated aluminium	Transparent multi-walled polycarbonate Isolux
			C _{wv} -value	A _g -value in m ²	C _{wv} -value	A _g -value in m ²	C _{wv} -value	A _g -value in m ²			
1010	1000 x 1000	1.00	0.52	0.52	0.51	0.51	0.36	0.52	29	32	26
1015	1000 x 1500	1.50	0.56	0.84	0.55	0.83	0.43	0.88	35	40	31
1020	1000 x 2000	2.00	0.58	1.16	0.57	1.14	0.46	1.21	42	48	37
1025	1000 x 2500	2.50	0.59	1.48	0.59	1.48	0.48	1.56	48	56	42
1030	1000 x 3000	3.00	0.60	1.80	0.60	1.80	0.50	1.92	55	65	47
1510	1500 x 1000	1.50	0.56	0.84	0.55	0.83	0.43	0.88	35	40	31
1515	1500 x 1500	2.25	0.60	1.35	0.60	1.35	0.50	1.45	42	50	37
1520	1500 x 2000	3.00	0.62	1.86	0.62	1.86	0.54	2.02	50	59	43
1525	1500 x 2500	3.75	0.63	2.36	0.63	2.36	0.56	2.57	57	69	49
1530	1500 x 3000	4.50	0.64	2.88	0.64	2.88	0.58	3.16	64	79	55
2010	2000 x 1000	2.00	0.58	1.16	0.57	1.14	0.46	1.21	40	47	36
2015	2000 x 1500	3.00	0.62	1.86	0.62	1.86	0.54	2.02	49	59	42
2020	2000 x 2000	4.00	0.64	2.56	0.64	2.56	0.58	2.81	57	70	49
2025	2000 x 2500	5.00	0.65	3.25	0.65	3.25	0.60	3.56	66	82	56
2030	2000 x 3000	6.00	0.66	3.96	0.66	3.96	0.62	4.36	74	94	62
2510	2500 x 1000	2.50	0.59	1.48	0.59	1.48	0.48	1.56	46	54	40
2515	2500 x 1500	3.75	0.63	2.36	0.63	2.36	0.56	2.57	55	68	48
2520	2500 x 2000	5.00	0.65	3.25	0.65	3.25	0.60	3.56	65	81	55
2525	2500 x 2500	6.25	0.66	4.13	0.67	4.19	0.63	4.59	74	95	62
2530	2500 x 3000	7.50	0.67	5.03	0.68	5.10	0.65	5.62	84	108	70

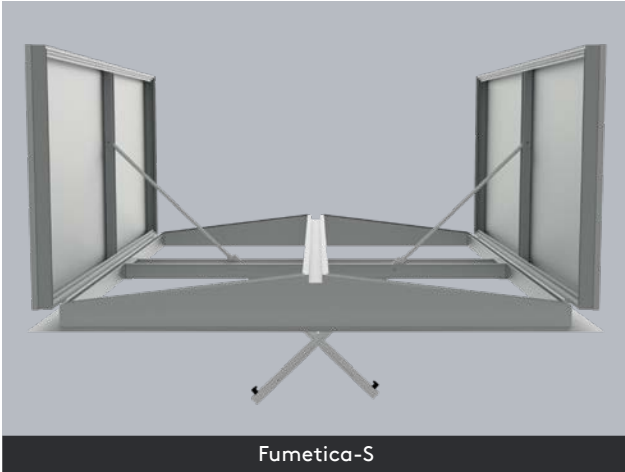
All dimensions of type 1010 to 2530 are available as standard, intermediate dimensions on request. C_{wv}-values of the Fumetica-S are tested in combination with a wind baffle. The height of the wind baffle varies per dimension. This can change according to the build-in situation.

A_g = C_{wv} x geometric surface (A_g)

¹⁾ Geometric surface in combination with conical upstand = throat size Fumetica-S + 200 mm

Technical Specifications

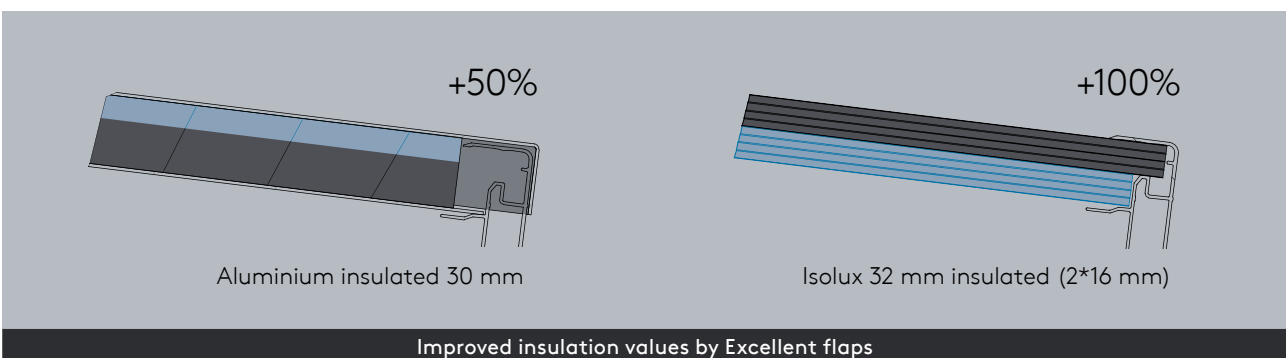
Versions



- Base: uninsulated or insulated aluminium 30 mm
- Flaps at an inclination of 7°:
 - uninsulated
 - insulated aluminium 20 mm
 - Isolux 16 mm clear/opal
- Significant flexibility in dimensions and flange type
- $U = 1.4 - 5.6 \text{ W/m}^2\text{K}$



- Base: insulated aluminium 30 mm
- Flaps at an inclination of 7°:
 - insulated aluminium 30 mm
 - Isolux 32 mm (2*16 mm) clear/opal
- Significant flexibility in dimensions and flange type
- Excellent by improved insulation values
- $U = 1.1 - 1.3 \text{ W/m}^2\text{K}$



Technical Specifications

Material

Base and flanges: sea water and corrosion resistant EN AW 5754 (AlMg3) aluminium sheet material. Choice of uninsulated base or 30 mm insulated base.

Seal: covered all round with PE tape, which prevents freezing in position and guarantees high air density.

Hinges: stainless steel.

Flaps: uninsulated or 20 mm insulated aluminium, clear or opal multi-walled polycarbonate filling 16 mm.

Excellent flaps: 30 mm insulated aluminium, clear or opal multi-walled polycarbonate filling 32 mm (2x16 mm).

Finish: mill finished, coated in a standard RAL colour or anodised (limited sizes).

Operation

Natural ventilation:

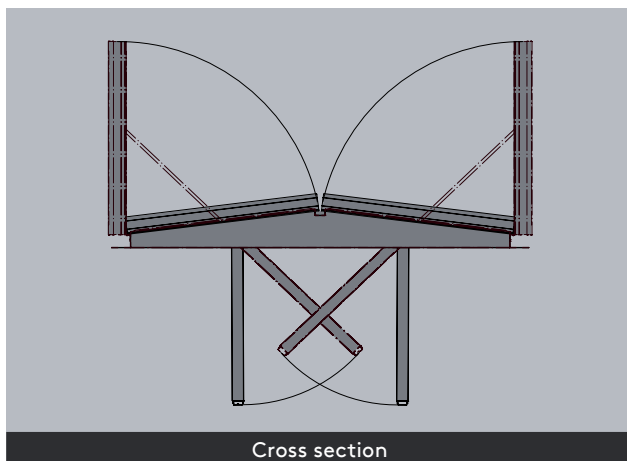
P2	double-acting compressed air operation
M	motor operation

Fire ventilation according to EN 12101-2:

P2B	double-acting compressed air operation with fire function
PB-FS	single-acting compressed air operation with fire function fail safe
M	motor operation

Accessories

- Bird or insect screen
- Insulated flanges
- Fall-through safety mesh
- Lifting eyes



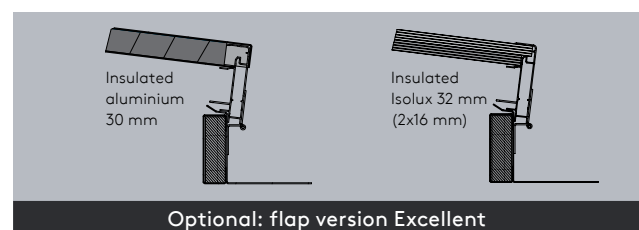
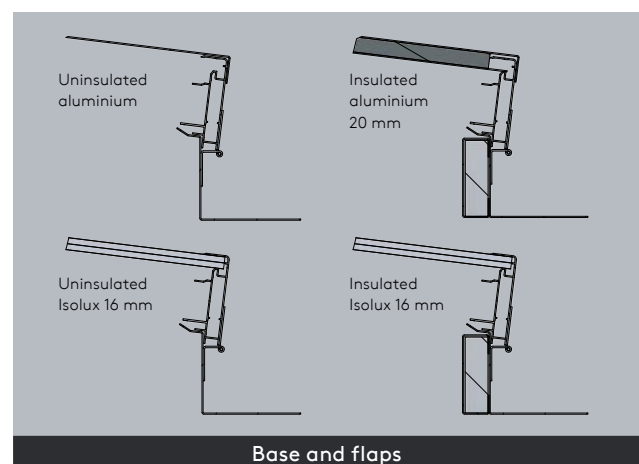
Test results*

- EN 12101-2 approved: B300, Re300, WL1500
 - Type P2B: SL800, T(00) / SL500, T(-15)
 - Type M24V:
 - SL800, T(00) / SL500, T(-15) Isolux flap
 - SL750, T(00) / SL500, T(-15) Aluminium flap
 - Type PB-FS: SL500, T(00) / SL250, T(-15)
- U-value system = 1.1 – 5.6 W/m²K according to EN 10077-2 (depending on dimensions and version)
- Air permeability: EN 1026: 600 Pa, EN 12207: class 2
- Watertightness: EN 1027: 600 Pa, EN 12208: class 9A
- Resistance to varying wind loads: class C1, 200 Pa (= P2) deflection < 1/300 in accordance with EN 12210 / EN 12211
- Fall-through safety / impact resistance: SB1200 according to EN 1873:2014

*) WL / SL is based on maximum dimension type 2530.
If type < 2530 higher WL / SL are possible

Recyclable

The aluminium that is used for the production of the Kingspan Fumetica-S consists of 80% recycled aluminium. Recycling aluminium produces 60 to 80% less CO₂ emissions than the production of primary aluminium.



INTERNATIONAL

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