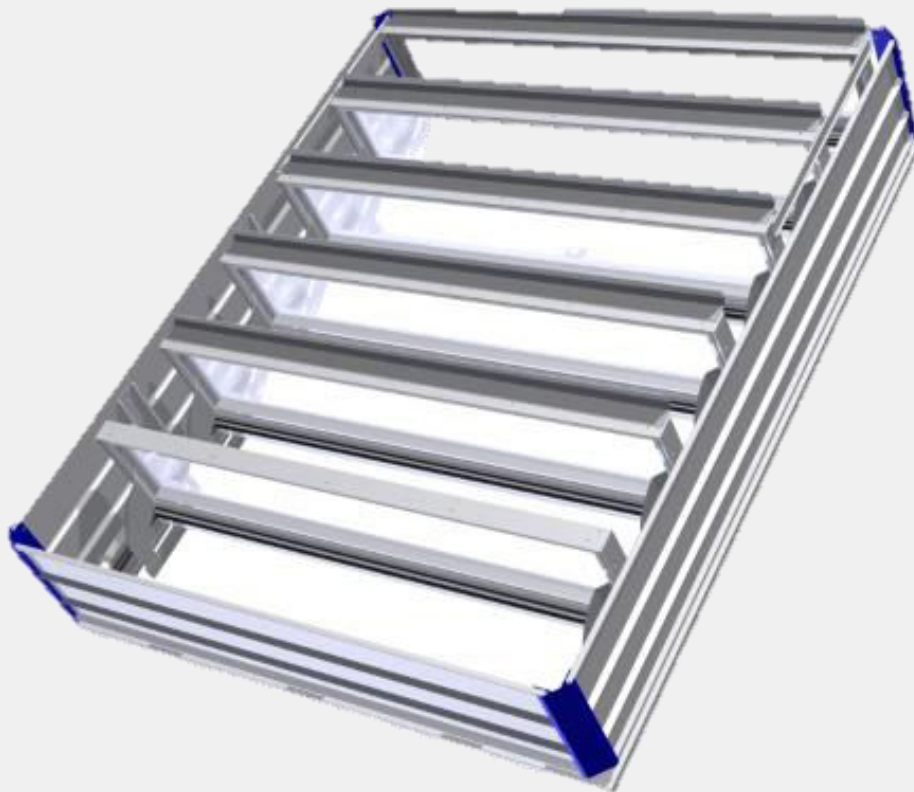




Kingspan Optima Thermally broken louvred smoke ventilator NBS Specification



NBS clauses:

H11 Curtain walling - 140 LOUVRES

L10 Windows/ Rooflights/ Screens/ Louvres - 650 METAL LOUVRES

U14 Smoke and heat control systems - 330 NATURAL SMOKE AND HEAT EXHAUST VENTILATORS

U88 Air terminal devices - 380 EXTERNAL LOUVRES

Kingspan Optima thermally broken Louvred Smoke Ventilator

Detailed description

Kingspan Optima is a fully thermally broken and most energy-efficient natural ventilator for both smoke and heat exhaust as well as daily ventilation. The Optima offers an optimum contribution to the fire safety, comfort and energy management of a property thanks to its outstanding performance on U-value, air and water tightness and is perfect for use in sustainable buildings.. Optima is tested and certified conform to EN 12101-2 and is CE marked.

Features and benefits:

- Multifunctional application (façade and flat roof application (0°-15°))
- Very large geometrical surface - up to 9.75 sqm
- Fully thermally broken solution, with high insulation value
- High performance on air tightness (air leakage of 0.4 m³/h/m²)
- Designed for LEED & BREEAM high performance buildings

Applications:

Facade and roof application for smoke & heat exhaust ventilation according to EN 12101-2:

- High performance commercial and industrial buildings (LEED/BREEAM)
 - Flat roofs up to a maximum pitch of 15°
 - Façade (90°)

Façade and roof application for natural ventilation:

- High performance commercial and industrial buildings (LEED/BREEAM)
 - Wall (90°)
 - Roof (0°-89°)

Size options

Intermediate sizes are available upon request; consult manufacturer.

Width (incremental per mm)

Low base(LB): from 600 – 2500 mm

Length: (incremental per mm)

Low base (LB): from 1100 – 3900 mm

Louvres:

- Sandwich panel 25 mm
 - Isolux louvre 25 mm 5-wall
 - Double glass 4 lowE - 15 Argon 90% - 3.3.2 laminated safety glass
- Consult manufacturer for information.

Product specification

Manufacturer

- Name: Kingspan Light + Air
- Web: www.kingspanlightandair.co.uk
- Email: info@kingspanlightandair.com
- Tel: +44 (0)2920 776160
- Address: Mellyn Mair Business Centre, Lamby Industrial Park,
Wentloog Avenue, Cardiff, Wales CF3 2EX

Product reference Kingspan Optima thermally broken Louvred Smoke Ventilator

Size

Throat width: [_____]

Throat length: [_____]

Throat widths:

Size may vary (incremental per mm) between 600 mm – 2500 mm:.

[060]. - 060 mm width.

[120]. - 1200 mm width.

[180]. - 1800 mm width.

[240]. - 2400 mm width.

[250]. - 2500 mm width.

Throat lengths:

Size may vary (incremental per mm) between 1100 mm – 3900 mm:

[3]. - 1100 mm long ventilator.

[4]. - 1101–1500 mm long ventilator.

[5]. - 1501–1900 mm long ventilator.

[6]. - 1901–2300 mm long ventilator.

[7]. - 2301–2700 mm long ventilator.

[8]. - 2701–3100 mm long ventilator.

[9]. - 3101–3500 mm long ventilator.

[10]. - 3501–3900 mm long ventilator.

Base

[LB]. - Low base.

Louvres

Type:

[Sandwich panel 25 mm]

[Isolux louvre 25 mm 5-wall]

[Double glass 4 lowE - 15 Argon 90% - 3.3.2 laminated safety glass]

Louvre seals:

[Not required].

[Four sided EPDM seals]. - For sandwich panel, polycarbonate or glass louvres

Finish:

[Mill finish aluminium].

[Polyester powder coated 1-layer 60µm (Qualicoat), RAL colour _____].

[Polyester powder coated 2-layer 110µm (Qualicoat), RAL colour _____].

[Anodised technical plain 20µm (Qualanod)].

[Anodised technical plain 25µm (Qualanod)].

Base fixing type:

Aluminium flange to suit:

[Curb].

[Glazing].

[Curtain walling].

[Sheeting].

Guards:

[Bird].

[Insect].

Initiation:

[Automatic device able to respond to a release signal].
[Automatic device activated by an electrical signal from a remote source].
[Automatic pneumatic device].
[Automatic thermal device].

Weight:

Dependent on louvre type and quantity, consult manufacturer's literature for information.

U-value:

Dependent on base and louvre type, consult manufacturer's literature for information.

Aerodynamic surface:

Dependent on louvre type and quantity, consult manufacturer's literature for information.

Controls:**Natural ventilation****Electric:**

[Not required].
[M motor operation 24 VDC].
[M motor operation 230 VAC].

Pneumatic:

[Not required].
[P single-action compressed air operation].
[P2 double-action compressed air operation].

Smoke & Heat Exhaust according to EN 12101-2**Electric**

[Not required].
[M24V Motor operation 24V].

Pneumatic:

[Not required].
[PB Single-action compressed air operation with fire function].
[P2B Double-action compressed air operation with fire function].
[PB-FS Single-action compressed air operation with fire function failsafe].

Accessories:

[None].
[Flange extension plate].
[Opening from outside].

Other requirements

[Not required].

UK

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