

Williaam Cox Kingspan Optima



Product Overview

SHEV Application



Manufacturer	Kingspan (www.kingspan.com)
Type	Williaam Cox louvred ventilator, type Kingspan Optima
Description	Thermally separated natural louvred ventilator, suitable for ventilation purposes and smoke & heat ventilation
Operation	Single action pneumatic cylinder + CO2fire function (PB) / double action pneumatic cylinder + CO2fire function (P2B) / single action failsafe pneumatic cylinder (PBFS) / 24Vdc spindle motor (M24)
Base	Thermally separated insulated aluminium Thermally separated uninsulated aluminium
Louvers	Thermally separated aluminium with 25mm insulated aluminium flap $U = 0.94 \text{ W/m}^2\text{K}$ / thermally insulated with insulated glass 4-15-3.3.2, 25 mm thick $U = 1.10 \text{ W/m}^2\text{K}$ / thermally insulated with 6 wall polycarbonate - 25mm thick - clear / opal $U = 1.50 \text{ W/m}^2\text{K}$
Flanges	Thermally separated for glazing installation F2 flange thickness (28) mm / uninsulated flange for preformed upstand (width 120mm F5) / uninsulated flange for application of roof felt (F4) / thermally separated insulated flange for special installations (see drawing)
Clear opening (w x l)	*** x *** mm (identical)
Flange sizes (w x l)	*** x *** mm (identical)
Installation angle	0-30° and 90°
Installation	Installation in glazing / on preformed upstands / roof felt application
Protection	Enamel finish with 1 polyester layer powder coating, layer thickness 60 μm , in standard RAL colour (group 1) / anodised

Smoke Ventilators

Williaam Cox Kingspan Optima

U value	Depending on type and size from 0.99 to 1.40 W/m ² K
Air-tightness	EN 1026: 600 Pa, EN 12207: class 4
Air leakage	0.3 m ³ /hrs/m ² at 50 Pa
Water tightness	EN 1027: 1050 Pa, EN 12208: class E1050
Resistance to varying wind load	EN 12211:800 Pa (= P2) deviation < 1/300, strength 2400 Pa EN 12210: class 4E
Reaction to fire	EN 13501-1 +A1:2009, B-s2,d0
Test	EN 12101-2
Acoustic values	Kingspan Optima with insulated aluminium flap Rw = 26 dB Kingspan Optima with 6 wall polycarbonate Rw = 21 dB Kingspan Optima with glass flap 4-15-3.3.2 Rw = 31 dB



Product Overview

SHEV Application



Manufacturer	Kingspan (www.kingspan.com)
Type	Williaam Cox louvred ventilator, type Kingspan Optima
Description	Thermally separated natural louvred ventilator, suitable for ventilation purposes
Operation	Single action pneumatic cylinder (P) / double action cylinder (P2) / 24Vdc spindle motor (M24) / 24Vdc spindle motor + transformer / rectifier (M230)
Base	Thermally separated insulated aluminium Thermally separated uninsulated aluminium
Louvres	Thermally separated aluminium with 25mm insulated aluminium flap U = 0.94 W/m ² K / thermally insulated with insulated glass 4-15-3.3.2, 25mm thick U = 1.10 W/m ² K / thermally separated with 6 wall polycarbonate - 25mm thick - clear / opal U = 1.50 W/m ² K
Flanges	Thermally separated for glazing installation F2 flange thickness (28) mm / uninsulated flange for preformed upstand (width 120mm F5) / uninsulated flange for application of roof felt (F4) / thermally separated insulated flange for special installations.
Clear opening (w x l)	*** x *** mm (identical)
Flange sizes (w x l)	*** x *** mm (identical)
Installation angle	0-90°
Installation	Installation in facade construction / glazing installation / on preformed upstands / roof felt application

Smoke Ventilators

Williaam Cox Kingspan Optima

Protection	Enamel finish with 1 polyester layer powder coating, layer thickness 60 μ m, in standard RAL colour (group 1) / anodised
U value	Depending on type and size from 1.0 to 1.4 W/m ² K
Air-tightness	EN 1026: 600 Pa, EN 12207: class 4
Air leakage	0.3 m ³ /hrs/m ² at 50 Pa
Water tightness	EN 1027: 1050 Pa, EN 12208: class E1050
Resistance to varying wind load	EN 12211: 800 Pa (= P ₂) deviation < 1/300, strength 2400 Pa EN 12210: class 4 EN 12210: class 4
Acoustic values	Kingspan Optima with insulated aluminium flap R_w = 26 dB Kingspan Optima with 6 wall polycarbonate R_w = 21 dB Kingspan Optima with glass flap 4-15-3.3.2 R_w = 31 dB