

Product overview

NSHEV – TOP-90 Dome rooflight series

VELUX[®]

Commercial



NSHEV – TOP-90 Dome rooflight series

Natural smoke and heat exhaust ventilation according to EN 12101-2
or smoke ventilation device according to LBO state building code

Product description, Dome rooflights NSHEV variants:

Classically curved or hybrid dome rooflights in accordance with EN 1873 to meet various energy, sound insulation and safety requirements. Glazing made from high-quality, UV-resistant plastic (PMMA or PC) combined with SHEV fittings in accordance with EN 12101-2 or drives for smoke ventilatio in accordance with LBO (state building code).

Recommended use:

Flat roofs of unheated or heated buildings with a roof pitch of up to 15° (steeper roof pitches on request).

Basic functions:

Natural smoke and heat extraction according to DIN EN 12101-2, geometric smoke extraction for stairwells according to LBO (state building code).

Features and benefits:

Thanks to the mechanical fastening of dome top units, they are simple and inexpensive to install and replace.

SHEV product variants	SHEV PNEUMATIC OPEN	DIN SHEV PNEUMATIC OPEN-CLOSE	DIN SHEV ELECTRIC OPEN-CLOSE	DIN STAIRCASE SMOKE ELECTRIC	DIN STAIRCASE SMOKE ELECTRIC + ROOF ACCESS
Product designation (SHEV function only)	FIREJET 165J	FIREJET 165J-AZ	-	-	-
SHEV drive	Pneumatic	Pneumatic	-	-	-
SHEV function	ON	OPEN-CLOSE	-	-	-
SHEV function	165°	165°	-	-	-
CE mark / declaration of performance according to	DIN EN 12101-2	DIN EN 12101-2	-	-	-
Ventilation function	X	X	-	-	-

Product designation (SHEV and ventilation function)	FIREJET 165JM	FIREJET 165JM-AZ	FIREJET 165J-AZ-SA	Smoke ventilation fitting	Combination fitting
SHEV Drive	Pneumatic	Pneumatic	Electric	Electric	Electric
SHEV Function	ON	OPEN-CLOSE	OPEN-CLOSE	OPEN-CLOSE	OPEN-CLOSE
Opening angle	165°	165°	165°	-	-
CE mark according to	EN 12101-2	EN 12101-2	EN 12101-2	EN 1873	EN 1873
Ventilation function	230V / 300 mm stroke	230V / 300 mm stroke	24V/48V / 300 mm stroke	24V / 500 mm stroke	24V / 500 mm stroke
Roof exit function	X	X	On request	X	85°

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TOP-90 2-Skin	✓	✓	✓	✓	✓
TOP-90 3-Skin	✓	✓	✓	✓	✓
TOP-90 COMFORT 4-Skin	X	X	X	✓	✓
TOP-90 PLUS	✓	✓	✓	✓	✓
TOP-90 SCHALL	X	X	✓	✓	X
TOP-90 COMFORT-S	X	X	X	✓	X

Services according to EN 12101-2




Aerodynamically effective opening surface, 6 – SHEV performance	see below	see below	see below	Not relevant	Not relevant
Response time 7.1.2	< 60 s	< 60 s	< 60 s	Not relevant	Not relevant
Opening under ambient conditions: • Opening under load - 7.2 (snow load) • Low ambient temperature - 7.3 • Wind load: 7.4 (tandem locking !?) (Data related to NSHEV's of the reference size 120 x 120 cm – Performance depending on order size and / or equipment)	SL 500 T(-05) WL 1.500 *) *) Depending on type of locking	SL 500 T(-05) WL 1.500 *) *) Depending on type of locking	SL 2.200 (with 24V, 6A) **) SL 2.600 (with 48V, 3A) **) T(-15) WL 1.500 **) applies by way of example to TOP-90 SOUND	Not relevant	Not relevant
Heat resistance 7.5	B ₃₀₀ 30	B ₃₀₀ 30	B ₃₀₀ 30	Not relevant	Not relevant
Fire behaviour 7.5.2.1	E	E	E	Not relevant	Not relevant

SHEV performance:





Aerodynamically effective opening area: 6

(Data related to NSHEVs of the reference size 120x120 cm and Upstand height 30cm.

– Power depends on order size and equipment), as well as on the selected rooflight base geometry.


Possible combinations with SHEV-AK's (selection)	Metal RAK (for RAK heights 40/45/50 cm) 	GFK-RAK (for RAK heights 30 und 45 cm) 	Steel/aluminium composite RAK (for RAK heights 30/40/50 cm) 
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SHEV product variants	DIN SHEV PNEUMATIC UP	DIN SHEV PNEUMATIC OPEN-CLOSE	DIN SHEV ELECTRIC OPEN-CLOSE	DIN STAIRCASE SHEV ELECTRIC	DIN STAIRCASE SHEV ELECTRIC + ROOF OUTPUT
A _a value acc. to EN 12101-2 [m ²] (with wind guide)	1,08 m ²	1,08 m ²	1,02 m ²	-	-
A _a value acc. to EN 12101-2 [m ²] (without wind deflector)	0,86 m ²	0,86 m ²	0,81 m ²	-	-

Possible combinations with standard AK's (selection)	ISO-THERM-AK (for AK heights 30/40/50/60 cm) 	Metal AK (for AK heights 30/40/50 cm) 	GRP-AK (for AK heights 30/40/50 cm) 	RWA PVC-AK (for AK heights 30/40/50 cm) 
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SHEV product variants	DIN SHEV PNEUMATIC OPEN-CLOSE	DIN SHEV ELECTRIC OPEN-CLOSE	DIN STAIRCASE SHEV ELECTRIC	DIN STAIRCASE SHEV ELECTRIC + ROOF OUTPUT	TREPPENHAUS- "RWA" ELEKTRISCH + DACHAUSSTIEG
A _a value acc. to EN 12101-2 [m ²] (with wind guide)	0,94 m ² / 0,88 m ² ¹⁾	0,94 m ² / 0,88 m ² ¹⁾	0,88 m ²	-	-
A _a value acc. to EN 12101-2 [m ²] (without wind deflector)	0,86 m ² / 0,81 m ² ¹⁾	0,86 m ² / 0,81 m ² ¹⁾	0,81 m ²	-	-
A _{geo} value acc. to LBO [m ²] (without wind deflector)	-	-	-	1,00 m ²	1,00 m ²

¹⁾ A_a value for GFK-AK-50

Kombinationsmöglichkeiten mit Sanierungs-AK	Sanierungs-AK Metall-Aufstocker (AK-Höhe 25cm) 
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SHEV product variants	DIN SHEV PNEUMATIC OPEN-CLOSE	DIN SHEV ELECTRIC OPEN-CLOSE	DIN STAIRCASE SHEV ELECTRIC	DIN STAIRCASE SHEV ELECTRIC + ROOF OUTPUT	TREPPENHAUS- "RWA" ELEKTRISCH + DACHAUSSTIEG
A _a value acc. to EN 12101-2 [m ²] ¹⁾ (with wind guide)	-	-	-	-	-
A _a value acc. to EN 12101-2 [m ²] (without wind deflector)	0,94 m ²	0,94 m ²	0,88 m ²	-	-
A _{geo} value acc. to LBO [m ²] (without wind deflector)	-	-	-	1,00 m ² ³⁾	-

²⁾ other order sizes (except 120 x 120 cm) are available with wind guide.

³⁾ on request

Notes: Other versions on request.

Equipping with fall-through protection can reduce the A_a values!