

## Product overview

TOP-90 Dome rooflight series

VELUX®

Commercial



## Dome rooflights for industrial flat roofs

### Product description:

Multi-layer dome rooflights made of high-quality, UV-resistant plastic (PMMA or PC).

### Recommended use:

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

### Basic functions:

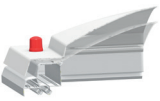

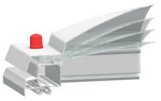
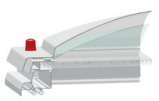
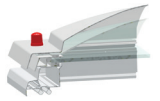
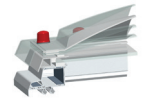
Fixed, venting, natural smoke and heat extraction according to DIN EN 12101-2, geometric smoke extraction for stairwells according to LBO (state building code).

### Product details:

Simple and cost-effective fixed dome rooflight design with direct attachment of the dome top unit to the upstand.

### Features & benefits:

Thanks to the mechanical fastening of dome top units, they are simple and inexpensive to replace or upgrade to vented rooflights.



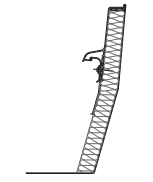
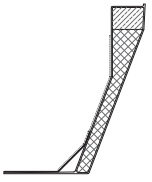
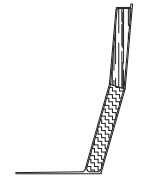
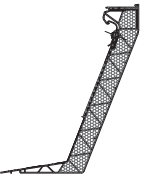
Dome rooflights – top unit	TOP-90-2S	TOP-90-3S	TOP-90 KOMFORT	TOP-90 PLUS	TOP-90 SCHALL	TOP-90 KOMFORT-S
Dome rooflights:						
Type of dome:	Standard dome	Standard dome	Standard dome	Hybrid dome	Hybrid dome	Hybrid dome
Number of dome skins + supplementary glazing components:	2-skin	3-skin	4-skin	2-skin + horizontal 16 mm PC multiwall	2-skin + horizontal 8 mm laminated safety glass	4-skin + horizontal 8 mm laminated safety glass
Material:	Domed PMMA / PC glazing in different color configurations	Domed PMMA / PC glazing in different color configurations	Domed PMMA / PC glazing in different color configurations	Domed PMMA / PC glazing in different color configurations	Domed PMMA / PC glazing in different color configurations	Domed PMMA / PC glazing in different color configurations
Recommended use:	Unheated or partially heated buildings	Partially or normally heated buildings	Heated buildings or buildings with energy efficiency requirements	Heated buildings or buildings with energy efficiency requirements	Heated buildings or building areas with increased sound insulation requirements	Heated buildings or building areas with increased energy efficiency and sound insulation requirements
Fixed variant:	✓	✓	✓	Ventilated fixed	Ventilated fixed	Ventilated fixed
Vented variant:	✓	✓	✓	✓	✓	✓
SHEV variant (EN 12101-2):	✓	✓	✓	✓	✓	✓
U-value $U_t$ W/(m <sup>2</sup> K): according to EN 1873:2014 (Specification independent of size)	3,0	2,0	1,5	1,1	2,0	1,2

## Glazing variants:

STANDARD (PMMA) Colour configuration:	opal/clear	opal/clear/clear	opal/clear/clear/clear	opal/clear/clear	opal/clear/clear	opal/clear/clear/clear/clear
HEATSTOP (PMMA) Colour configuration:	HEATSTOP/clear	HEATSTOP/clear/clear	✗	✗	✗	✗
BLACKTOP (PMMA) Colour configuration:	black/clear	black/clear/clear	✗	✗	✗	✗
SUPER-TOP (PC/PMMA) Colour configuration:	clear/opal	clear/opal/clear	clear/opal/clear/clear	clear/opal/kclear	clear/opal/clear	clear/opal/clear/clear/clear
HAILSTOP (PC) Colour configuration:	opal/clear	opal/clear/clear	opal/clear/clear/clear	opal/clear/clear	opal/clear/clear	✗

## Product data:

Sound insulation value [dB]: *) according to EN 1873: 2006-03 (5.10) **) according to test report	20 *	22 *	≥ 22 *	28 **	36 **	≥ 36 **
Fall-through protection according to GS-BAU 18: 2020-05 (Valid for 1 year after manufacture)	Only with glazing option: SUPER-TOP or HAILSTOP	Only with glazing option: SUPER-TOP or HAILSTOP	Only with glazing option: SUPER-TOP or HAILSTOP	✓	GS-BAU 18 is not applicable	GS-BAU 18 is not applicable
Fall-through protection according to DIN 18008-5 (unlimited validity for real glass products)	✗	✗	✗	✗	✓	✓
Hail resistance according to VKF classification: (according to VKF test regulations No. 10)	Only with glazing option: SUPER-TOP or HAILSTOP	Only with glazing option: SUPER-TOP or HAILSTOP	Only with glazing option: SUPER-TOP or HAILSTOP	Only with glazing option: SUPER-TOP or HAILSTOP	Only with glazing option: SUPER-TOP or HAILSTOP	Only with glazing option: SUPER-TOP or HAILSTOP

Dome rooflight – upstand	ISO-THERM-AK	Metall-AK-TE	Metall-RAK	GFK-AK	GFK-RAK	PVC-AK
Upstand:						
Material:	1-layer steel upstand with PVC cover-frame for thermal insulation freedom from thermal bridges	1-layer steel upstand with Alu cover-frame	1-layer steel upstand with Alu cover-frame	2-layer GRP upstand, laminated all round, with re-inforced upstand top	2-layer GRP upstand, laminated all round, with re-inforced upstand top	2-layer PVC upstand, closed profile with a multi-chamber system at 30 mm profile thickness
Insulation:	60 mm side insulation made of mineral wool (A1) for increased thermal insulation	30 mm side insulation made of mineral wool (A1) for normal thermal insulation	30 mm side insulation made of mineral wool (A1) for normal thermal insulation	30 mm side insulation for normal thermal insulation	30 mm side insulation for normal thermal insulation	30 mm side insulation for normal thermal insulation
Recommended use:	Heated buildings or building areas with increased energy efficiency requirements	Low or normally heated buildings or parts of buildings	Low or normally heated buildings or parts of buildings	Low or normally heated buildings or parts of buildings	Low or normally heated buildings or parts of buildings	Low or normally heated buildings or parts of buildings
Function:	Fixed or vented Dome Rooflights and SHEV-Units	Fixed or vented Dome Rooflights and SHEV-Units	Aerodynamic optimised geometry for SHEV-Units	Fixed or vented Dome Rooflights and SHEV-Units	Fixed or vented Dome Rooflights and SHEV-Units	Aerodynamic optimised geometry for SHEV-Units
U-value U <sub>up</sub> W/(m <sup>2</sup> K): according to EN 1873:2014 (Specification for 30 cm upstand height) DIN EN 1873: 2014 (5.9.1)	0,77	1,81	1,89	1,36	1,36	1,25

Complete dome rooflight product	TOP-90-2S + ISO-THERM-AK	TOP-90-2S + Metall-AK-TE	TOP-90-2S + Metall-RAK	TOP-90-2S + GFK-AK	TOP-90-2S + GFK-RAK	TOP-90-2S + PVC-AK
Total U-value U <sub>rc</sub> W/(m <sup>2</sup> K): according to EN 1873:2014 (Reference information for order size 120 x 120 cm for 30 cm upstand height) DIN EN 1873: 2014 (5.9.1)	1,76	2,30	2,25	2,06	2,06	2,01
Sound insulation value [dB]: according to EN 1873: 2006-03 (5.10)	20	20	20	20	20	20
Reaction to fire: according to EN 1873: 2006-03 (5.5) Classification according to EN 13501-1	E	E	E	E	E	E