

JET-VARIO-THERM

JET-VARIO-FIREJET® 165 J/

VARIO-THERM DK 95°



JET composite profiles for systematic energy efficient

NEW Version as hail protection system available



Energy efficiency through

JET-composite profiles:

- In the basic profile and flap frame as a combination of
 - Rigid PVC multi-chamber insulation structure inside
 - Aluminium covering profile for design and protection outside (patented construction: Patent number DE 10 2010 000 018)
 - Continuous rooflight and rooflight flaps include no thermal bridges

JET-frame connection profile

- Rigid PVC multi-chamber insulation profile for frame head
- System connection for perfect roof seals

Application of heat insulated glazing:

- PC 16 mm 7-shelled (U_g value of the glazing: $1.8 \text{ W/m}^2\text{K}$)
- PC 10 mm + 10 mm (U_g value of the glazing: $1.5 \text{ W/m}^2\text{K}$)

Performance of hail protection glazing:

- PC 16 mm 7-shelled + 3 mm air + PC 3 mm* (U_g value of the glazing: $1.6 \text{ W/m}^2\text{K}$) HW5 for water tightness, light transmission and appearance (acc. testing regulation no. 24, VKF / Bern VKF classification no. 25036)
- Use of reinforced aluminium profile

System accessories:

- Full flap and double fl
- SHEV device: JET-VARIO-FIREJET® 165 J as CO₂ and electrical SHEV system
- SHEV device: JET-VARIO-THERM DK 95° as CO₂ and electrical SHEV system
- Electrical drive for daily ventilation

Safety through

- System proofing according E A 010 for continuous rooflight construction
- Static calculation according to Eurocode (DIN EN 1991-1-3 and 1991-1-4)
- EC certificate of conformity for all SHEV flap JET-VARIO-FIREJET® 165 J and JET-VARIO-THERM DK 95°
- Complementary system accessories with JET-VARIO-PROTECT shading system, JET-fall-through protection grate, JET-single fixing device (all components BG tested)

Product advantages

JET-composite profiles

- Innovative combination of materials for function and design

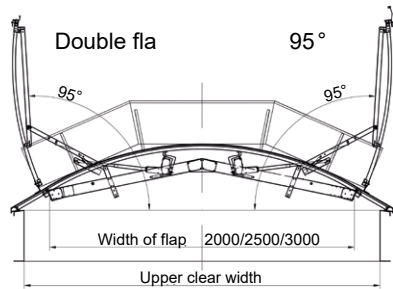
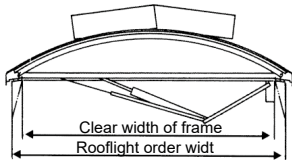
JET-energy efficiency equipment

- Thermal decoupling and heat insulation of the eaves area
- Thermal decoupling and heat insulation of the frame head
- Allows a total heat transmission (U_w value) of $1,2 \text{ W/m}^2\text{K}$

* Version as SHEV unit upon request

SHEV FLAPS FOR JET VARIO-THERM CONTINUOUS ROOFLIGHTS

Flap type	Opening angle	Upper clear width of the frame	Width/length	A_g	A_a
				cm	cm x cm
Full fla	165°	from 100 up to 250	w/100	from 1.000 up to 2.500	from 0.700 up to 1.998
		from 100 up to 250	w/134	from 1.340 up to 3.350	from 0.940 up to 2.538
		from 100 up to 250	w/204	from 2.040 up to 5.100	from 1.530 up to 3.861
Double fla	95°	from 200 to 600	200/100	2.00	1.48
		from 200 to 600	200/204	4.08	2.94
		from 250 to 600	250/100	2.50	1.88
		von 250 bis 600	250/204	5.10	3.72
		from 300 to 600	300/100	3.00	2.31
		from 300 to 600	300/204	6.12	4.52



A_a values (aerodynamic effective opening surface) and A_g values (geometrical surface)

JET-composite profile

1. Innovative combination of materials for function and design:

Basic profile made of rigid PVC and aluminium covering profi

Advantages of the JET-composite profiles in detail

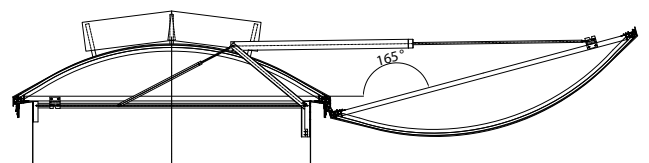
- High-quality and robust construction
- For secure and easy realization of the roof sealing
- For prevention against fire flashover according to DIN 182

Advantages of the continuous rooflight construction

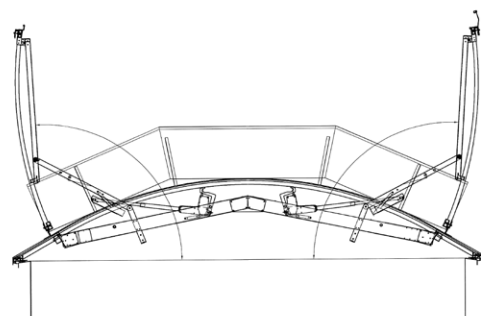
- Type static according to Eurocode (DIN EN 1991-1-3 and DIN EN 1991-1-4)
- Complete abrasion of the wind suction forces over the PVC without metallic penetration of the insulation level

Advantages of rooflight accessories

- High-quality plastic flap, thermal separated and heat insulated with glazing analogous to the continuous rooflight



Sectional view of a JET-VARIO-THERM rooflight with full flap



Sectional view of a JET-VARIO-THERM double flap. Other flap variants available upon request.

JET-energy efficiency equipmen

2. Thermal decoupling and heat insulation of the eaves area:

(Basic profile made of rigid PVC and aluminium covering profile)

- Multi-chamber insulation profile without thermal bridge

3. Thermal decoupling and heat insulation of the frame head:

(Frame connection profile made of rigid PVC supplementin the eave profile)

- Multi-chamber insulation profile without thermal bridge
- Highly insulating, effective frame head covering
- Lowers the U_w value of the continuous rooflight construction up to an additional $0.2\text{W/m}^2\text{K}$

4. Enables a total heat transfer (U_w value) of $1.2\text{W/m}^2\text{K}$:

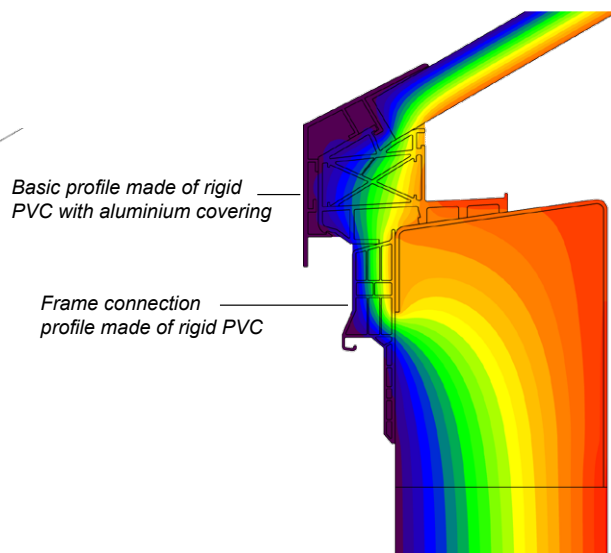
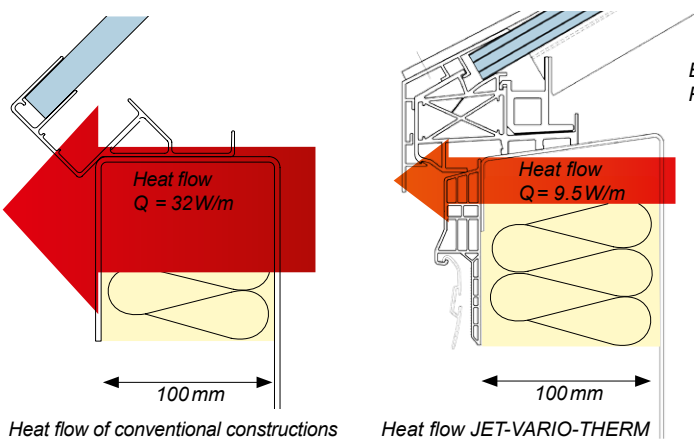
(Considerably better than the current EnEV reference value of $\leq 2.4\text{W/m}^2\text{K}$)

- Ideal for projects with sustainability certification
- Ideal for energy efficiency renovation

Isothermal performance for continuous rooflight with heat flow compared with conventional rooflight eave profile

Perfect interaction: The heat insulating multi-chamber eave and frame connection profiles results in ideal isotherma performance.

The risk of formation of condensate and mould is further reduced.



A low heat flow stands for less loss of heat


TECHNICAL DATA

	Glazing			
	PC 16mm 7-shelled		PC 10+10mm	
	opal	clear	2x opal	2x clear
U _g value of the glazing	1.8 W/m ² K		1.5 W/m ² K	
U _w value of the rooflight constructio	1.9 W/m ² K		1.6 W/m ² K	
U _w value of the rooflight construction (with frame	1.6 W/m ² K		1.4 W/m ² K	
U _w value of the rooflight construction (with frame + fram connection profile	1.4 W/m ² K		1.2 W/m ² K	
Light transmission T _L	54 %	64 %	32 %	42 %
g value	57 %	65 %	36 %	43 %
Sound insulation value (R _w)	21 dB	21 dB	24 dB	24 dB

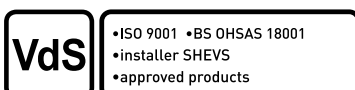
Approx. data relate to a continuous rooflight with the dimension 2 x 10m without/with insulated frame of 50cm height

Note: Other glazing available, e.g.:

- Thermal insulation glazing PC 16mm 7-shelled IR control
- PC 16mm 6-shelled (HW5 water tightness, acc. to VKF classification no. 25035)

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