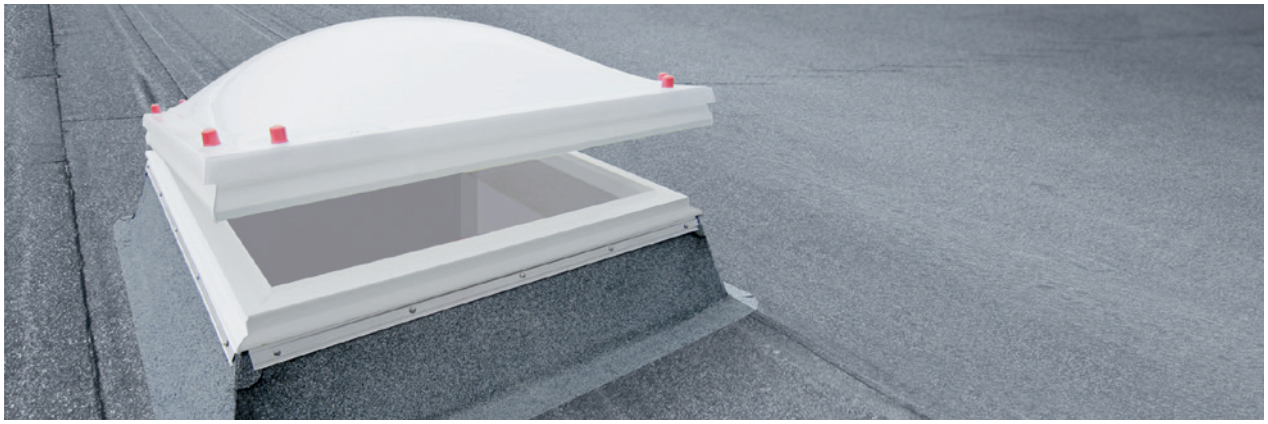
JET metal upstand type ISO-THERM-AK

VELUX® Commercial



Solution without thermal bridges for metal upstands
Ideal complement for demanding daylight solutions both in terms of energy and design

Energy efficiency

JET PVC slip-over frame

No thermal bridges and insulating upper upstand termination

- hard PVC multi-chamber insulation construction
- mounting area for roof connection sheeting
- fixation of roof connection sheeting with the optimal system

JET metal upstand

Advancement of the proven system upstand

- without protruding metal parts
- visible surface coil-coated in RAL 9002 (RAL 9016 optinal)
- standard upstand heights: 30, 40, 50 and 60 cm
- 60 mm thermal insulation (mineral wool, construction material class A1)
- thermal transfer coefficient
  - $U_{up,30}$ = 0.77 W/m²K according to DIN EN 1873
  - $U_{up,40}$ = 0.70 W/m²K according to DIN EN 1873
  - $U_{up,50}$ = 0.66 W/m²K according to DIN EN 1873
  - $U_{up,60}$ = 0.63 W/m²K according to DIN EN 1873

(Certified according to DIN EN ISO 10077-2 and DIN EN ISO 10211)

Innovation

- European patent is granted

Safety

JET system accessories (optional)

- JET "fall-through" protection
  Factory assembly: for example JET steel grid mat; JET steel tube system
  On-site assembly: for example JET LK-DSD
  Retrofitting: for example JET LK-DDN

Product advantages

- no thermal bridges for EnEV 2014/2016 applications
- ideal supplement for energy efficient daylight products (e.g. JET TOP-90 PLUS/Comfort or Ambience)
- short delivery times
- high variability
- attractive options

Options

- concealed wiring for electromotor drives (e.g. ventilation or shading motors)
- integrated 7° slope for improved water run-off for plane Ambience products (e.g. JET SKYSIGHT) (available for upstand height 40, 50 and 60 cm)
- version with optional adjusting plates for realisation of a pressure-resistant surface for bituminous roof sealings (see drawing on page 2)
- version as steep upstand to increase the surface for light entry in case of limited roof opening space (in combination with JET SKYSIGHT, JET dome rooflight glass; e.g. see drawing on page 2)

(Availability, prices and delivery times on request)

1.1.1 JET TOP-90
1.1.2 JET TOP-90 PLUS
1.1.3 JET TOP-90 sound reduction
1.4.1 JET dome rooflight safety concept
1.4.5 JET LK-DDS
1.4.6 JET LK-DDN
3.4.1 JET SKYSIGHT

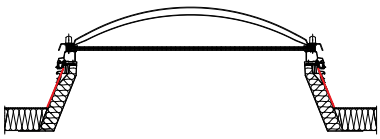
JET ISO-THERM upstand / order sizes and upstand heights

	Euro geometry Standard version	Euro geometry incl. 7° slope
Upstand height	30, 40, 50, 60 cm	40, 50 and 60 cm (eaves side)
Nominal bottom clear width upstand cm x cm		
50 x 100	TOP-90	-
50 x 150	TOP-90	-
60 x 60	TOP-90/S	S
60 x 90	TOP-90/LKG/S	S
60 x 120	TOP-90	-
70 x 135	TOP-90	-
80 x 80	TOP-90/LKG/S	S
90 x 90	TOP-90/LKG/S	S
90 x 120	TOP-90/LKG/S	S
100 x 100	TOP-90/LKG/S	S
100 x 150	TOP-90/LKG/S	S
100 x 200	TOP-90	-
100 x 250	TOP-90	-
120 x 120	TOP-90/LKG/S	S
120 x 150	TOP-90/S	S
120 x 180	TOP-90/LKG/S	S
120 x 210	TOP-90	-
120 x 240	TOP-90	-
120 x 250	TOP-90	-
120 x 270	TOP-90	-
125 x 125	TOP-90	-
125 x 250	TOP-90	-

	Euro geometry Standard version	Euro geometry incl. 7° slope
Upstand height	30, 40, 50, 60 cm	40, 50 and 60 cm (eaves side)
Nominal bottom clear width upstand cm x cm		
135 x 230	TOP-90	-
140 x 140	LKG	-
150 x 150	TOP-90/LKG/S	S
150 x 180	TOP-90/S	S
150 x 210	TOP-90/S	S
150 x 240	TOP-90	-
150 x 250	TOP-90	-
150 x 270	TOP-90	-
150 x 300	TOP-90	
180 x 180	TOP-90	-
180 x 240	TOP-90	-
180 x 250	TOP-90	-
180 x 270	TOP-90	-
180 x 300	TOP-90	-
200 x 200	TOP-90	-
200 x 300	TOP-90	-
210 x 210	TOP-90	-
220 x 220	TOP-90	-

- = not available

***Note**:*
TOP-90 / LKG / S (available for TOP-90 series / dome rooflight glass / SKYSIGHT)



JET TOP-90 PLUS on JET ISO-THERM upstand
Equipment option adjusting plates (red lines)

JET SKYSIGHT on JET ISO-THERM upstand 7°

JET SKYSIGHT on JET ISO-THERM upstand steep.
Use with sufficient roof slope