



DRYER

Optional functions

The SKYDÔME® dryer is the solution to water ingress into your roof insulation. If the waterproof membrane is pierced (by accident or due to age), the insulation acts like a sponge and soaks up water. It then becomes a thermal conductor and loses all its insulating properties. A simple repair is not sufficient. The SKYDÔME® dryer is designed to remove this moisture and prevent it from stagnating between the waterproofing system and substrate, thus avoiding decay of the insulation and, in the long run, deterioration of the roof's waterproofing. It is used on roofs with waterproofing for all types of construction in which a damp issue is observed in the insulation.



— COMPOSITION



KERB

- SKYDÔME type, opening 500 x 500 mm, made of galvanised sheet metal with insulation for the waterproofing upstand.



GLAZING

- 1000 x 1000 mm transparent single dome attached to the frame by means of a glazing bead frame.
- Option: transparent pyramid-shaped glazing.



GLAZING BEAD FRAME

- Aluminium attached by stainless steel screws and nylon washers. It holds the glazing in place.



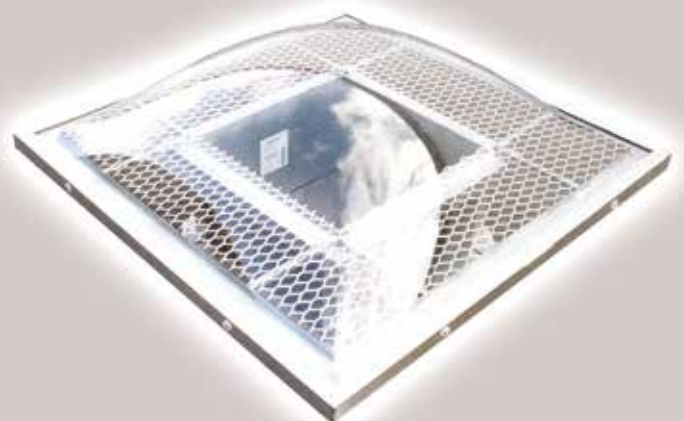
MESH

- Protection by a 10 x 10 mm mesh preventing pests from entering.
- The SKYDÔME® dryer mesh is fitted around the edge of the kerb. Access to the opening is thus possible after simply removing the dome to monitor moisture development in the insulation.

— OPERATING PRINCIPLE

The specific design of the SKYDÔME® Dryer creates an evaporation point via heat generated by means of the transparent glazing and an air gap between the kerb and the dome to evacuate the moisture.

The results achieved by this system vary depending on both the weather and the percentage of humidity in the insulation. However, the results of tests carried out over a 21-day period show an average evaporation of 0.4 litre/day.



— TEST RESULTS

Date of the test	Water retention container		Weather observations	Time	Evaporation
	In mm	In litres			
11/06/1992	61	15.25	Sunny	08:30	
12/06/1992	60	15	Sun + wind	08:20	0.25 L
Weekend	55		Storm		
15/06/1992		13.75	Sun + wind	10:15	1.25 L
16/06/1992	53	13.25	Sun + wind	08:30	0.5 L
17/06/1992	50	12.5	Sun + wind	08:15	0.75 L
18/06/1992	49	12.25	Sun + wind	08:30	0.25 L
19/06/1992	46	11.5	Sun + wind	08:20	0.75 L
Weekend			Rain + cloudy		
22/06/1992	43	10.75	Sunny	08:30	0.75 L
23/06/1992	40	10	Rain + cloudy	08:30	0.75 L
24/06/1992	38	9.5	Wind + cloudy	08:30	0.5 L
25/06/1992	38	9.5	Fog	08:15	
26/06/1992	38	9.5	Wind + cloudy	11:30	
Weekend			Sunny (hot)		
29/06/1992	30	7.5	Sun + breeze	10:20	2 L
30/06/1992	28	7	Sunny + stormy	14:10	0.5 L
01/07/1992	26	6.5	Stormy + windy	08:30	0.5 L

Device tested on a water retention container containing 15.25 litres of water.
For 21 days: evaporation = 8.75 litres of water.





— INSTALLATION

- Place the SKYDÔME® Dryer in the wettest areas after inspection.
- Plan to install one dryer for 50 m² of roof surface area.
- Installing the SKYDÔME® Dryer requires the waterproofing and insulation to be cut to match the kerb opening, this being 500 x 500 mm.
- The kerb is then fitted on the insulation and shims are placed in the insulation to provide support for the kerb. The last step involves attaching and sealing the assembly in the traditional manner in accordance with professional standards.

Flashing:

- The bitumen surfaced insulation on the standard kerb guarantees the watertightness of the flashing.
- Colaminated panel for PVC membrane.

Maximum insulation height:

- Maximum insulation height: the minimum height of the waterproofing upstand to comply with according to French legislation (DTU) is 150 mm.
- The waterproofing complex (substrate, vapour barrier, insulation and two-layer sealing) cannot be more than 140 mm for an inner kerb height of 310 mm or more than 240 mm for an inner kerb height of 410 mm.

Maintenance:

- Wash the glazing with soapy water. Do not use corrosive products or solvents.

— TECHNICAL DIAGRAMS

SKYDÔME Dryer

