



HUMIDITY EVACUATION CONTAINED IN THE ROOF INSULATION

# L'ASSÉCHEUR SKYDÔME®



**SKYDÔME®**  
La sécurité en toute clarté



L'Assécheur SKYDÔME® is a unit used for humidity evacuation contained in the roof insulation. It is used on waterproofed roof, for all types of buildings on which humidity problems appear in the insulation.

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## ADVANTAGES

The solution for water infiltration problems in the roof insulation.

When the waterproofing membrane has a hole (by accident or by bad state), the insulation reacts like a sponge and soaks up water. It becomes then a thermal conductor and loses all its insulation properties.

A simple repair is not enough.

L'Assécheur SKYDÔME® is designed for the humidity evacuation and to avoid its stagnation between the waterproofing membrane and the support. It also avoids the insulation deterioration and, on the long term, the degradation of the roof's waterproofing.



L'Assécheur SKYDÔME® is composed of:

- **Kerb**

A SKYDÔME® kerb type with an opening 500 x 500 mm in galvanised steel including an insulation for the waterproofing membrane.

- **Grill**

The created space between the kerb of 500 mm and the dome of 1000 mm is protected by a grill of mesh 10 x 10 mm avoiding any harmful happenings.

The grill of l'Assécheur SKYDÔME® is fixed on the outside of the kerb. It allows the access to the opening after removing the dome in order to notice the evolution of the humidity contained in the insulation.

- **Glazing**

A transparent simple dome 1000 x 1000 mm fixed on the frame due to the beading frame.

- **Beading frame**

An aluminium beading frame fixed by stainless steel screws and nylon washers. It holds the glazing in place.

- **Functions**

The specific conception of l'Assécheur SKYDÔME® allows the creation of an evaporation point by heating (thanks to the transparent glazing), and by air circulation between the kerb and the dome to evacuate the humidity. The results obtained by this system could be variable according to the percentage of the insulation humidity and to the weather. Nevertheless, the tests results, made during 21 days, indicate an average evaporation of 0,4 litre / day.

ASSECHEUR TEST	WATER TRAY		WEATHER OBSERVATIONS	TIME	EVAPORATION
Date	mm	litre			
11/06/1992	61	15,25	Sun	8 h 30	
12/06/1992	60	15	Sun + Wind	8 h 20	0,25 L
Week-end	55		Storm		
15/06/1992		13,75	Sun + Wind	10 H 15	1,25 L
16/06/1992	53	13,25	Sun + Wind	8 h 30	0,5 L
17/06/1992	50	12,5	Sun + Wind	8 h 15	0,75 L
18/06/1992	49	12,25	Sun + Wind	8 h 30	0,25 L
19/06/1992	46	11,5	Sun + Wind	8 h 20	0,75 L
Week-end			Rain + Cloudy		
22/06/1992	43	10,75	Sun	8 h 30	0,75 L
23/06/1992	40	10	Rain + Cloudy	8 h 30	0,75 L
24/06/1992	38	9,5	Cloudy Wind	8 h 30	0,5 L
25/06/1992	38	9,5	Fog	8 h 15	
26/06/1992	38	9,5	Cloudy Wind	11 h 30	
Week-end			Sun (hot)		
29/06/1992	30	7,5	Sun + Breeze	10 h 20	2 L
30/06/1992	28	7	Sun + Stormy	14 h 10	0,5 L
01/07/1992	26	6,5	Stormy + Windy	8 h 30	0,5 L

Unit tested on water tray containing 15,25 litres of water.

During 21 days: evaporation = 8,75 litres of water.



- Transparent pyramid dome.

After examination, position l'Assécheur SKYDÔME® on the most humid areas.

Plan to have one Assécheur for 50m<sup>2</sup> roof surface.

The installation of l'Assécheur SKYDÔME® implicates a cut in the waterproofing membrane and the insulation to the size of the unit opening, 500 x 500 mm.

Then the kerb has to be installed on the insulation. Wedges have to be installed in the insulation in order to support the kerb. The last step consists to fix and to waterproof the whole in accordance to the current regulations.

#### Waterproofing seal:

- The bitumen-faced insulation on the standard kerb guarantees the seal with waterproofing detailing material.
- A co-laminated metal sheet for PVC membrane.

**Maintenance:** glazing must be washed with soapy water. Corrosive products or solvents must not be used.

