

insulated panel for roof

HEAT TRANSMISSION K COEFFICIENT FOR THE COAT OUT OF THE FLASHING S (thickness mm)	
S = 20	K = 0,858
S = 30	K = 0,600
S = 40	K = 0,462
S = 50	K = 0,375
S = 60	K = 0,316
S = 80	K = 0,240
S = 100	K = 0,194

The calculus of the K values reported on the table has been effected without to take into consideration the contribution provided by the coefficients of liminar exchange a_1 and a_2 (average values $a_1 = 8$ $a_2 = 20$ W/m²K); such a contribution may be quantified according to the expression:

$$K = \frac{1}{1/\alpha_1 + s/\lambda + 1/\alpha_2} \text{ W/m}^2\text{K}$$

CORAM Version: The mod. **ROOF H3** is available in CORAM version with the external support made of copper (UNI EN 1172-UNI 10372). The CORAM panels are characterized by a high insulation degree and by a higher weatherability.

AGRI Version: The mod. **ROOF H3** is available in AGRI version with the flexible support made of embossed aluminium.

Size:

width mm. 1000, lenght on request from continuous production.

Panel thickness:

standard thickness of polyurethane out of the flashing S = mm 20. Panels with non standard thickness (max 170 mm) may be supplied on request, upon agreement about the minimum quantities.

External supports:

galvanized steel, pre-painted or plasticized galvanized steel; stainless steel, natural aluminium, pre-painted or embossed aluminium, copper. Standard steel thickness mm 0,5. Greater or smaller thickness may be supplied on request.

Flexible supports:

rolled bituminized feltboard; other non standardized material may be supplied on request, upon agreement about the minimum quantities.

Insulation:

continuous foaming of:

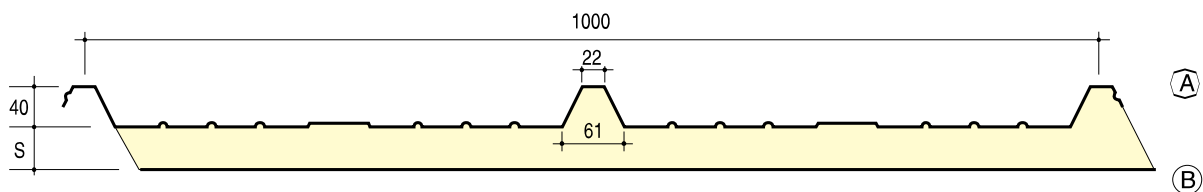
- self-extinguishing polyurethane foams (PUR).

Protection treatment applicable on request:

polyester pre-painting for external parts, silicone polyester, PVDF, Class A thermoplastic, application of PVC plastic film or other films.

Joint:

in very critical situations, it is foreseen the utilization of a simple foamed packing.



maximum regularly distributed load in Kg/m²

support thickness in mm	panel weight Kg/m ²	DISTANCE AMONG THE "L" SUPPORTS IN METERS													
		▲ L ▲ Kg/m ²							▲ L ▲ L ▲ L ▲ Kg/m ²						
		1,00	1,25	1,50	1,75	2,00	2,25	1,00	1,25	1,50	1,75	2,00	2,25	2,50	
0,5	5,93	246	158	110	80	62	48	308	197	137	100	77	60	49	
0,6	6,84	295	190	132	96	74	58	369	237	165	120	92	72	59	
0,8	8,66	393	253	176	128	99	77	491	316	220	160	124	96	79	
1,0	10,48	491	316	220	160	124	96	614	395	275	200	155	120	99	

CONVERSION FORMULAE: 1 Kg/m² = 0,0098 KN/m² • 1 Kcal/m² h °C = 1,16 W/m² K