

# Roof H5

technical sheet

## insulated panel for roof

HEAT TRANSMISSION K COEFFICIENT FOR THE COAT OUT OF THE FLASHING S (thickness mm)	
S = 20 .....	K = 0,751
S = 30 .....	K = 0,546
S = 40 .....	K = 0,423
S = 50 .....	K = 0,353
S = 60 .....	K = 0,300
S = 80 .....	K = 0,231
S = 100 .....	K = 0,188

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  $a_i$  and  $a_e$  (average values  $a_i = 8$   $a_e = 20$  W/m<sup>2</sup>K); such a contribution may be quantified according to the expression:

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

**CORAM Version:** The mod. **ROOF H5** 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 H5** 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:

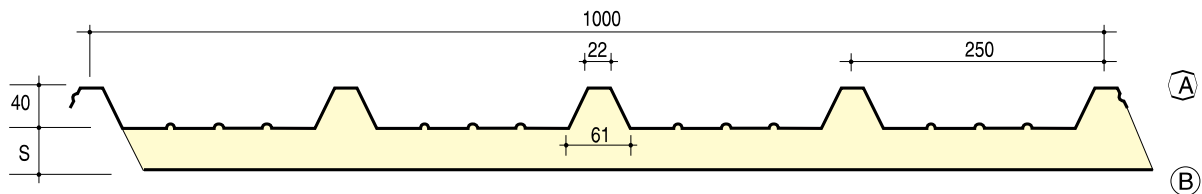
- self-extinguishing polyurethane foams (PUR).

### 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/m<sup>2</sup>

support thickness in mm	panel weight Kg/m <sup>2</sup>	DISTANCE AMONG THE "L" SUPPORTS IN METERS													
		▲ L ▲ Kg/m <sup>2</sup>					▲ L ▲ L ▲ L ▲ Kg/m <sup>2</sup>								
		1,00	1,50	2,00	2,50	3,00	1,00	1,50	2,00	2,50	2,75	3,00	3,25	3,50	
0,5	6,40	401	178	100	64		501	222	125	80	66	55	47		
0,6	7,38	481	213	120	77	49	601	266	150	96	80	66	57	49	
0,8	9,35	641	284	160	103	65	801	355	200	129	106	88	76	65	
1,0	11,31	802	355	200	129	82	1002	444	250	161	132	111	95	81	

CONVERSION FORMULAE: 1 Kg/m<sup>2</sup> = 0,0098 KN/m<sup>2</sup> • 1 Kcal/m<sup>2</sup> h °C = 1,16 W/m<sup>2</sup> K