

G4 Monorooft[®] TPO

Flat and pitched PUR-insulated roof system, waterproofed, slope $p \geq 1\%$

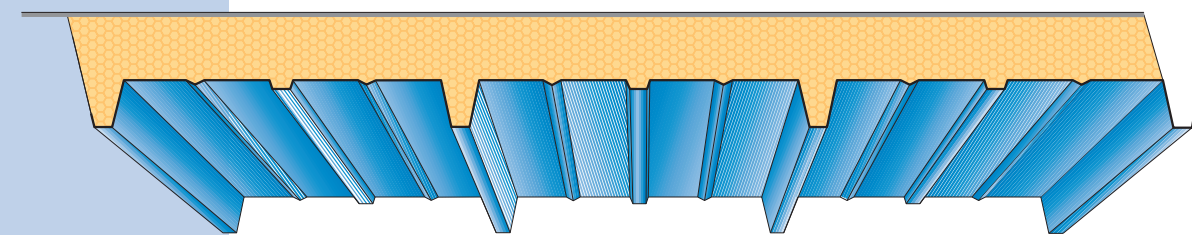
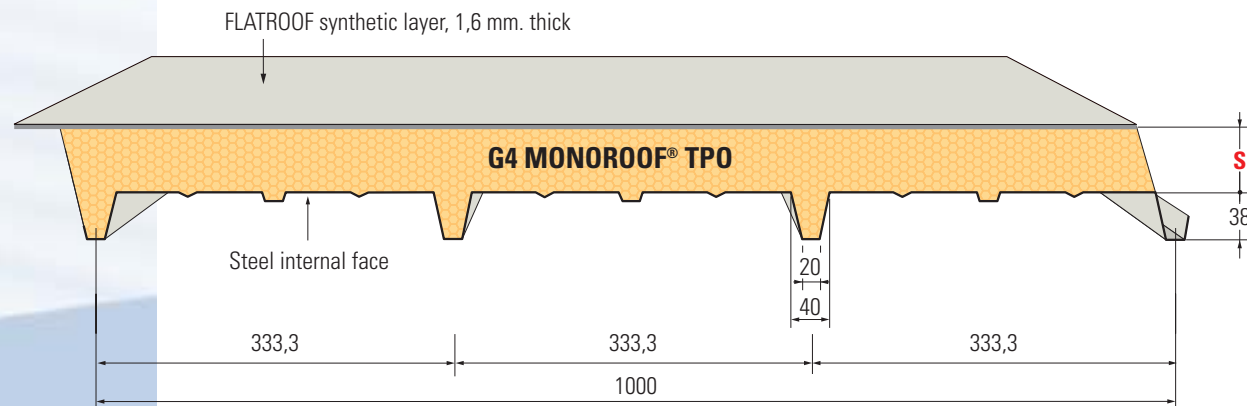
PRODUCED IN:
ITALY
SPAIN



Self-supporting insulated metal panel, pre-waterproofed with G4 MONOROOFT[®] TPO SYNTHETIC LAYER, for flat and pitched roofs. The synthetic layer in flexible TPO, 1.6 mm thick, is reinforced with a 50 g/m² layer of polypropylene and a 100 g/m² polyester non-woven fabric. For additional technical information, refer to the G4 MONOROOFT[®] TPO technical manual.



Laying direction



Chemical and physical characteristics of the waterproof layer	Values	Test method
Ultimate tensile strength	≥ 600 N/5 cm	UNI 8202/8
Ultimate elongation	$\geq 80\%$	UNI 8202/8
Dimensional stability when hot	$\leq 0,1\%$	UNI 8202/17
Resistance to static punching	Ps5	UNI 8202/11*
Resistance to dynamic punching	Pd3	UNI 8202/12*
Cold bending (2 mm spindle)	$\leq -20^{\circ}\text{C}$	UNI 8202/15*
Accelerated ageing on exposure to light, no flaws after:	5000 h	DIN 53387
Waterproofing (6h with 0.5 Mpa)	Impermeable	UNI 8202/21
Resistance to hail	≤ 25 m/s	SIA 280/8*
Coded designation UNI 8818: PVC 01-00-11		

* Test carried out on the panel

Table of safe spans

The spans l in metres, as a function of a uniformly distributed overload p (daN/m²), have been calculated to provide a deflection $f \leq l/200$ considering only the sheet as the resisting cross-section (the contribution of the polyurethane has not been taken into account) in accordance with standard UNI CNR - 10022/84 and the AIPPEG design guidelines. Data for the 0.5 mm thickness sheet has been obtained from laboratory tests.

FLATROOF

S mm	K		Panel weight kg/m ²		Sheet thickness mm	p = (daN/m ²)							p = (daN/m ²)							
	Kcal m ² h °C	Watt m ² °C	0,5	1,0		80	100	120	150	200	250	300	80	100	120	150	200	250	300	
30	0,51	0,59	6,04	10,81	0,5	l =	1,96	1,82	1,72	1,60	1,45	1,35	1,25	1,60	1,47	1,40	1,29	1,16	1,05	0,97
40	0,40	0,46	6,42	11,19	0,6	l =	2,16	1,99	1,89	1,74	1,60	1,47	1,38	1,74	1,63	1,52	1,43	1,29	1,19	1,11
50	0,33	0,38	6,80	11,57	0,8	l =	2,56	2,38	2,23	2,08	1,90	1,75	1,65	2,08	1,93	1,82	1,69	1,53	1,43	1,35
60	0,28	0,33	7,18	12,95	1,0	l =	2,84	2,64	2,48	2,30	2,10	1,95	1,84	2,29	2,14	2,00	1,87	1,70	1,58	1,48

