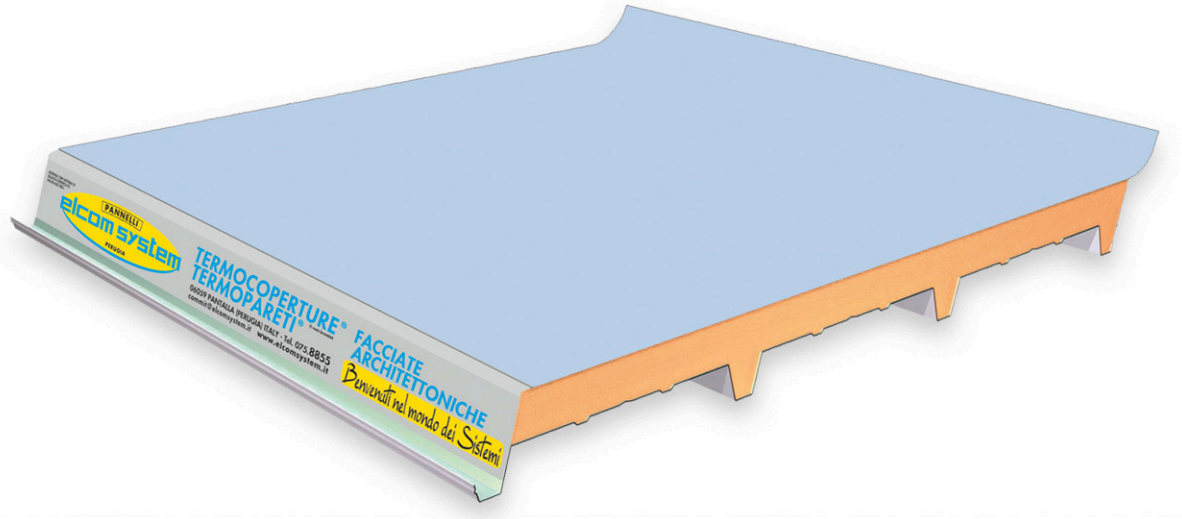
TERMOCOPERTURA® RP/ST MANTO DOUBLE SHEET

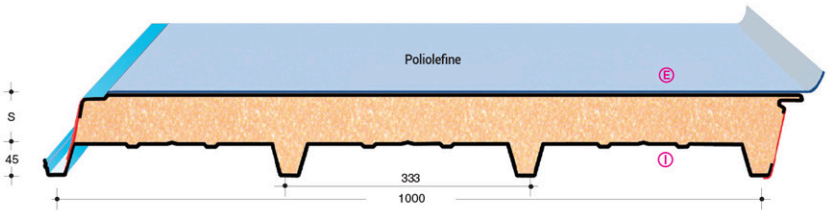
ENG

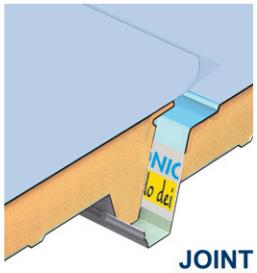
® registered trade name



TYPE
RP/ST
MANTO
DOUBLE SHEET

S
Thickness mm.
30-40-50-60
80-100-120





JOINT

POLIOLEFINE

The **TERMOCOPERTURE®** type **RP/ST MANTO double steel sheets** having externally a polyolefin (TPO) membrane, are used for flat or low slope roof, offering numerous advantages compared to the bitumen membranes or other traditional techniques.

Technical characteristics:

Metallic support: the internal / external metallic support are obtained from cold profiling of carbon steel coils coated with hot dip zinc type S250GD according UNI EN 10346 with mechanical characteristics as foreseen in the D.M. of 14.01.2008 and tolerances as per UNI EN 10143 norm.The finishing of the steel supports (side "I" and side "E") consist of an organic coat obtained from a cycle of hot standard polyester prepainting according to EN 10169.

Thermal Insulation: expanded polyurethane CFC free, according to UNI EN 13165 norm.

Main characteristics:
- Density: 40 kg/m³
- Thermal conductivity coefficient: λ= 0,022 W/m°K
- Compressive strength: 140-150 Kpa
- Impermeability: 98% closed cells (non hygroscopic material)

Poliolefine waterproofing membrane, 1,5 mm thick

Synthetic waterproofing membrane (polyolefin) produced by coextruding a uniform UV resistant elastomerized (TPO/FPA) thermoplastic olefin and polypropylene alloy, coupled to a non woven polyester material on the internal surface.
On the RP/ST Manto double sheets, the membrane is applied in continuous on the steel support side E and sticked with special resins to ensure a perfect adhesion and flatness. The panel joint of the polyolefin membrane is made on site with a hot-air gun without using any adhesive or other materials..

THERMIC INSULATION				U.M.	Useful loads uniformely distributed in KG/m² – KN/m² SINGLE SPAN IN m ℓ								
S thickness mm	U Kcal m²·h·°C	U W m²·°C	weight Kg/m²		2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00
30	0,602	0,700	10,76	Kg/m²	278	160	99	65	43	29	19	12	7
				KN/m²	2,73	1,58	0,98	0,64	0,42	0,29	0,19	0,12	0,08
40	0,461	0,536	11,13	Kg/m²	333	200	129	87	60	42	29	20	14
				KN/m²	3,27	1,96	1,27	0,86	0,59	0,41	0,29	0,20	0,14
50	0,372	0,433	11,51	Kg/m²	390	242	161	111	79	57	41	30	22
				KN/m²	3,83	2,38	1,58	1,09	0,78	0,56	0,41	0,30	0,22
60	0,313	0,364	11,89	Kg/m²	448	285	194	137	99	73	54	41	30
				KN/m²	4,40	2,80	1,91	1,35	0,98	0,72	0,54	0,40	0,30
80	0,237	0,276	12,64	Kg/m²	567	376	265	193	144	109	84	65	50
				KN/m²	5,57	3,69	2,60	1,90	1,42	1,08	0,83	0,64	0,50
100	0,191	0,222	13,40	Kg/m²	688	469	339	253	193	149	117	92	73
				KN/m²	6,76	4,61	3,33	2,49	1,90	1,47	1,15	0,91	0,72
120	0,166	0,193	14,15	Kg/m²	811	565	415	315	244	192	153	122	99
				KN/m²	7,96	5,54	4,08	3,09	2,40	1,89	1,50	1,20	0,97

LOAD CONDITIONS WITH STEEL SUPPORTS (MANTO DOUBLE SHEETS):
The values shown in the tables are indicative and referred to a deflection f≤1/200 of the span ℓ (m) for panels with thickness of **STEEL** supports 0,5+0,5 mm.
For sizing and checking refer to the enclosed E of the UNI EN 14509 Norm and to the values shown in the CE certification. The letter Ⓘ Ⓔ shows the required painted side.

ED. 07/21

PANELS elcom system ITALY