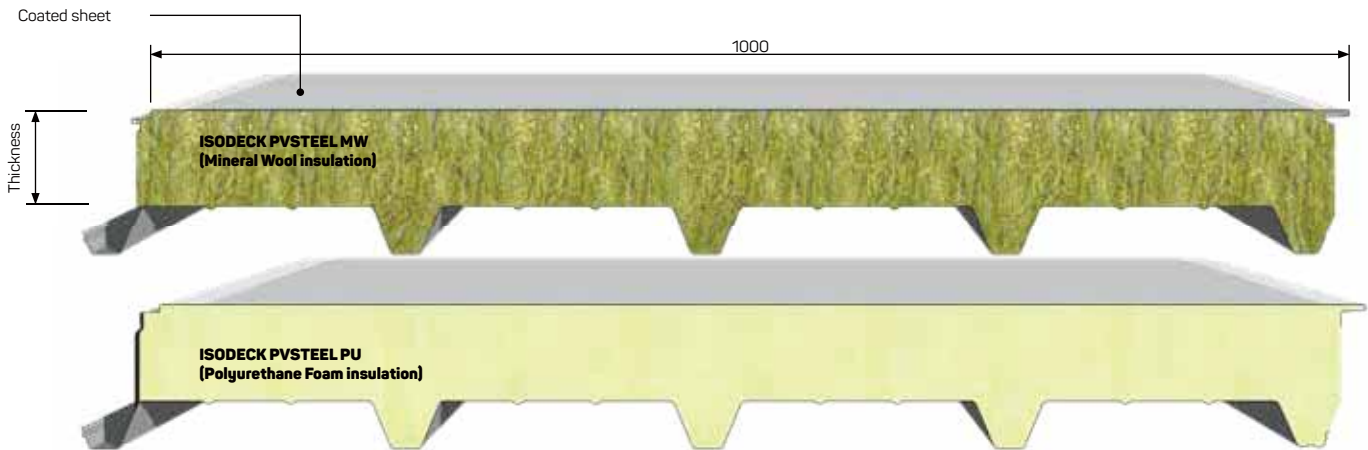


Isodeck PVSteel MW

Isodeck PVSteel PU



Double skin panel with metal facing coated with a very resistant thin PVC/TPO seal.



APPLICATION

Isodeck PVSteel is a roof panel designed for flat or slightly pitched roofs, thanks to its metal PVC/TPO coated facing. Thanks to both metal facings, the panel is characterised by a high mechanical resistance.

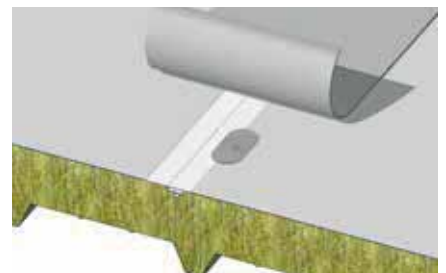
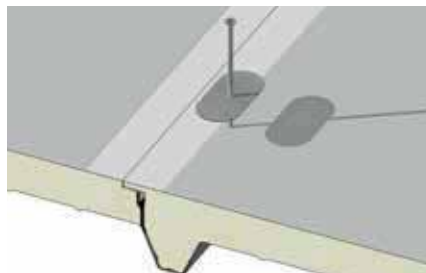
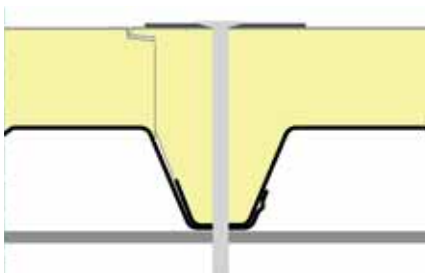
CHARACTERISTICS

- Internal facing: prepainted galvanised steel (EN 10346)
- Insulating core: expanded polyurethane foam or mineral wool
- External face: Synthetic layer Coated sheet

The insulating core can be made of polyurethane foam or mineral wool. Thanks to its double skin, the panel is more resistant to static and dynamic loads on small or large spans compared to a simple skin product. The panel is installed upside down (the ribbed face is the internal face of the building) in order to realise a flat roof in coated sheet. If it is traditionally installed (extrados profiled face) instead, it is possible to create roofs with the coated face exposed.

ADVANTAGES

- High resistance to static and dynamic loads
- Quick installation
- Excellent resistance to UV rays
- High waterproofing capacity



INSTRUCTIONS OF USE

For informations about panels utilization, technical instructions and and related limits, please consult the Technical Manual, General Sales Terms and Annexes.



→ see pag. 16

OVERLOAD SPANS

Int. sheet 0,6mm Thick		ISODECK PVSTEEL PU - Support 120 mm								ISODECK PVSTEEL MW - Support 120 mm							
UNIFORMLY DISTRIBUTED LOAD	kg/m ²	PANEL NOMINAL THICKNESS mm								PANEL NOMINAL THICKNESS mm							
		30	40	50	60	80	100	120	150	50	60	80	100	120	150	170	200
		MAX SPANS cm								MAX SPANS cm							
80		305	335	385	405	485	495	520	580	335	360	415	480	525	575	585	595
100		280	310	360	395	440	450	485	525	305	325	380	430	480	520	530	540
120		250	290	325	360	410	425	450	485	270	300	340	390	435	470	475	480
140		215	270	305	340	390	400	420	455	250	280	315	355	400	425	430	435
160		185	245	300	310	360	370	405	435	235	250	290	325	360	390	395	400
180		165	210	280	300	350	355	380	410	220	235	270	305	330	365	370	375
200		150	185	235	295	320	340	365	400	200	220	255	290	320	335	340	345
220		140	160	215	270	305	320	345	375	185	210	240	270	300	320	320	325
250		115	140	180	225	295	305	325	355	160	185	220	250	280	290	295	300

Calculation for static sizing according to the Annex E of the UNI EN 14509 standard. Deflection limit 1/200 ℓ. Thermal load is not considered. Value of 170mm and 200mm thickness panel (*in italic*) are considered with 150mm width support.

PANELS WEIGHT (Steel sheets)

INTERNAL SHEET THICKNESS mm		PU	PANEL NOMINAL THICKNESS mm								MW	PANEL NOMINAL THICKNESS mm							
			30	40	50	60	80	100	120	150		50	60	80	100	120	150	170	200
0,6	kg/m ²		14,4	14,8	15,2	15,6	16,4	17,2	18,0	19,2		18,4	19,4	21,4	23,4	25,4	28,4	30,4	33,4
0,8	kg/m ²		16,3	16,7	17,1	17,5	18,3	19,1	19,9	21,1		20,4	21,4	23,4	25,4	27,4	30,4	32,4	35,4

THERMAL INSULATION

U		PU	PANEL NOMINAL THICKNESS mm								MW	PANEL NOMINAL THICKNESS mm							
			30	40	50	60	80	100	120	50		60	80	100	120	150	170	200	
W/m ² K			0,71	0,54	0,44	0,37	0,28	0,22	0,19		0,78	0,66	0,50	0,41	0,34	0,28	0,24	0,20	
kcal/m ² h °C			0,61	0,47	0,38	0,32	0,24	0,19	0,16		0,67	0,57	0,43	0,35	0,29	0,24	0,21	0,17	

DIMENSION TOLERANCE

DEVIATION mm			DEVIATION mm		
Length	L ≤ 3 m	± 5 mm	Working length	± 2 mm	
	L > 3 m	± 10 mm		Deviation from perpendicularity	6 mm
Thickness	D ≤ 100 mm	± 2 mm	Misalignment of the internal metal faces	± 3 mm	
	D > 100 mm	± 2 %	Bottom sheet coupling	F = 0 + 3 mm	