

Isodeck



Roof of a winery in Treviso



View of the inner side



→ Legend pag. 18

Panel designed for waterproofed roofs on flat or pitched structures. It is a simple skin panel with the second face made of asphalted paper. The waterproofed roof will have to be completed with an asphalt felt.



APPLICATION

Isodeck is a panel that is particularly appropriate for flat roofs, garden roofs.

CHARACTERISTICS

Isodeck is a self-supporting simple skin metal faced panel, insulated with polyurethane foam with internal face made of roofing felt. The panel can be installed upside down for the construction of flat roofs to be waterproofed on site. In fact, the ribbed face is the internal face of the building; it can also be used in the traditional way on hidden faces and continuous slab. The fixing system is a penetrating type with the possibility to use exposed caps; the number and the place of the fixing elements should guarantee the stresses resistance. On this panel, the LB1 system, which is specially designed for fixing photovoltaic mono and polycrystalline modules, can be used.

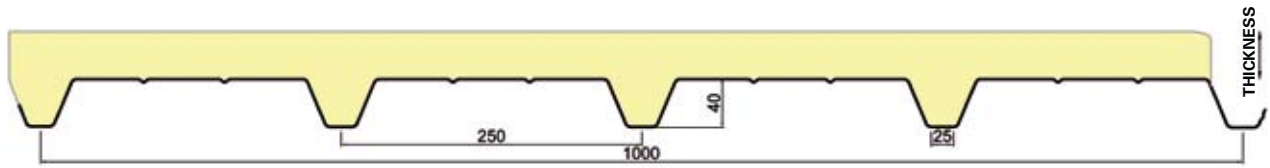
ADVANTAGES

- **Simple and economic solution**
- **lightness (since it is a simple skin panel)**
- **Appropriate for false ceilings**

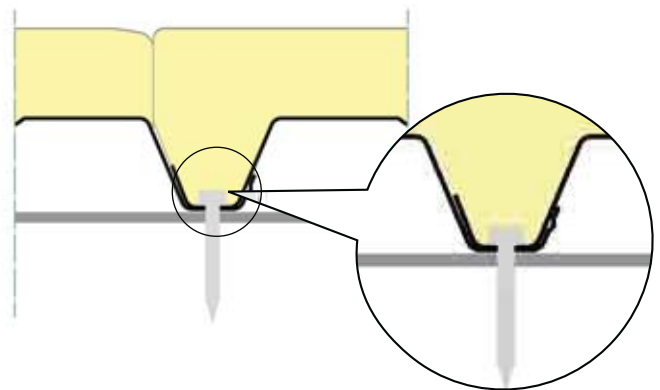
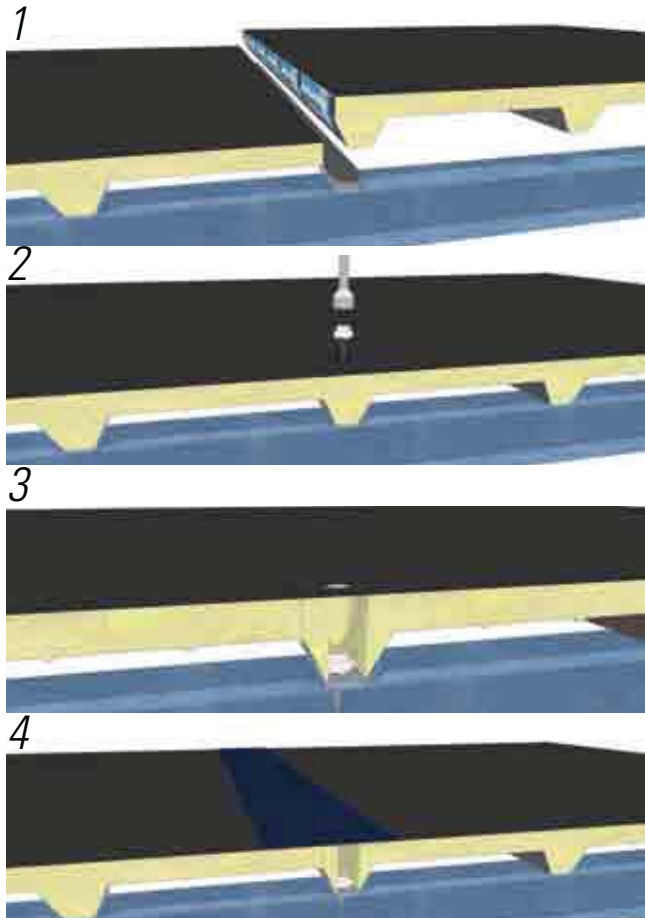


INSTRUCTIONS OF USE

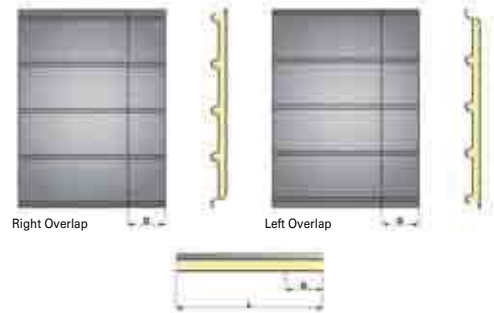
For the use of the panels and the related limits, please consult the technical data sheet available on www.isopan.it under the section "technical data sheet" and the "recommendations for the assembly of ribbed sheets and metal faced insulating panels" defined by AIPPEG Association of Italian Producers of Panels and Ribbed Elements.



Panel transversal section



Details of the fixing system and the coupling tolerance

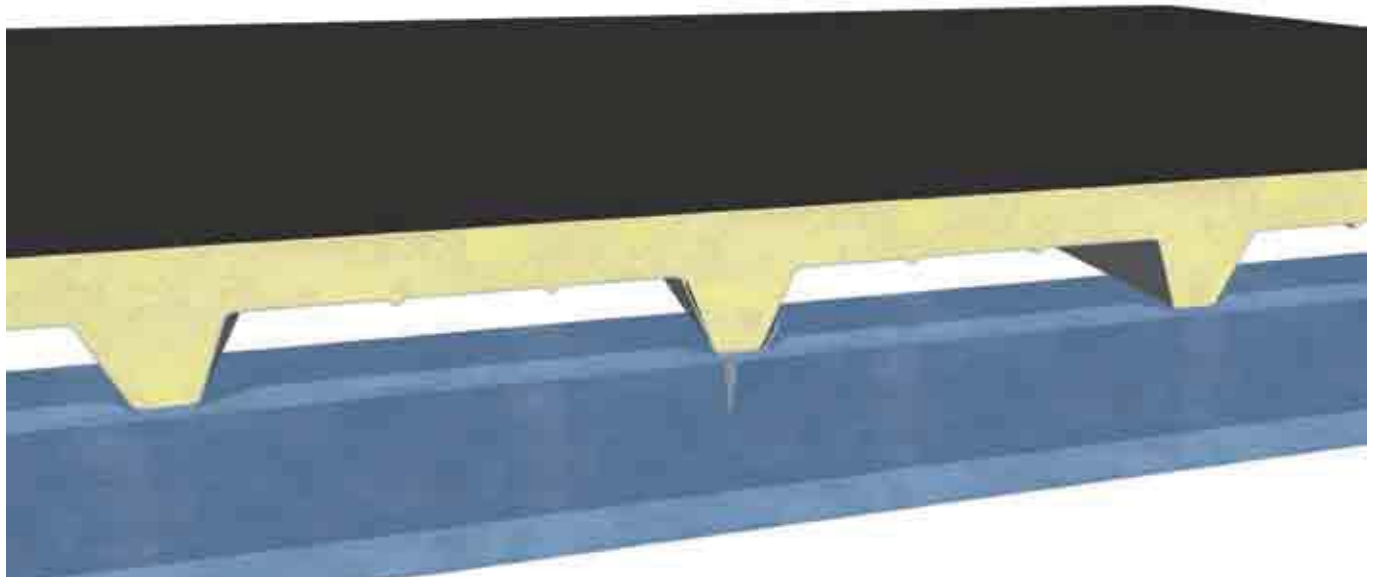


Assembly phase

- 1- Overlap the panels
- 2- Place the screw
- 3- Fix to the substructure
- 4- Overlap with finishing elements - pontage

D = mm 100-150-200-250
Other measurement after agreement

Details of the overlapping system



OVERLOAD SPANS

Steel Sheet										
UNIFORMLY DISTRIBUTED LOAD	SHEET THICKNESS mm					SHEET THICKNESS mm				
	MAX SPANS cm					MAX SPANS cm				
	0,5	0,6	0,7	0,8	1,0	0,5	0,6	0,7	0,8	1,0
kg/m ²										
60	245	260	275	290	315	275	295	310	325	350
80	220*	235	250	265	285	250*	270	285	295	320
100	200*	220*	235	245	265	220*	245*	260	275	295
120	180*	200*	215*	230	250	200*	225*	240*	260	280
140	165*	185*	200*	215*	235	185*	205*	225*	240*	265
160	155*	170*	185*	200*	225	175*	195*	210*	225*	255
180	145*	160*	175*	190*	215*	165*	180*	200*	210*	240*
200	140*	155*	165*	180*	200*	155*	170*	185*	200*	225*

Aluminum Sheet								
UNIFORMLY DISTRIBUTED LOAD	SHEET THICKNESS mm				SHEET THICKNESS mm			
	MAX SPANS cm				MAX SPANS cm			
	0,6	0,7	0,8	1,0	0,6	0,7	0,8	1,0
kg/m ²								
60	160*	170	180	190	180*	190	200	220
100*	130*	155*	165	180	160*	175*	190	205
120	130*	140*	155	170	145*	160*	185	190
140	120*	130*	140*	160	135*	150*	160*	180
160	110*	120*	130*	150	125*	140*	150*	170

* Valori con limitazione di sforzo.
Deflection limit 1/200 ℓ

PANELS WEIGHT

	PANEL NOMINAL THICKNESS mm					
	30	40	50	60	80	100
kg/m ²	7,1	7,5	7,9	8,3	9,1	9,9

FIRE CHARACTERISTICS

Regarding the specifications related to the fire characteristics of the panels, it is possible to consult the synthesis available in the catalogue or on the website www.isopan.it.

THERMAL INSULATION

In accordance with the new standard EN 14509 Annex 10

U	PANEL NOMINAL THICKNESS mm					
	30	40	50	60	80	100
W/m ² K	0,71	0,54	0,44	0,37	0,28	0,22
kcal/m ² h °C	0,61	0,47	0,38	0,32	0,24	0,20

DIMENSION TOLERANCE

	DEVIATION mm
Length	± 10
Working length	± 5
Thickness	± 2
Orthogonality and rectangularity	± 3

According to the calculation method EN ISO 69646

K	PANEL NOMINAL THICKNESS mm					
	30	40	50	60	80	100
W/m ² K	0,55	0,44	0,36	0,31	0,25	0,20
kcal/m ² h °C	0,48	0,38	0,32	0,27	0,22	0,17

AVAILABLE COLOURS (the colour should be chosen according to the final-use, the installation area and the standard thicknesses in stock)

bianco grigio 	bianco G9002 	bianco G9010 	grigio antracite G7016 	blu genziana G5010 	blu grigiastro G5008 
silver G9006 	verde muschio G6005 	testa di moro 	rosso ossido G3009 	rosso antico 	