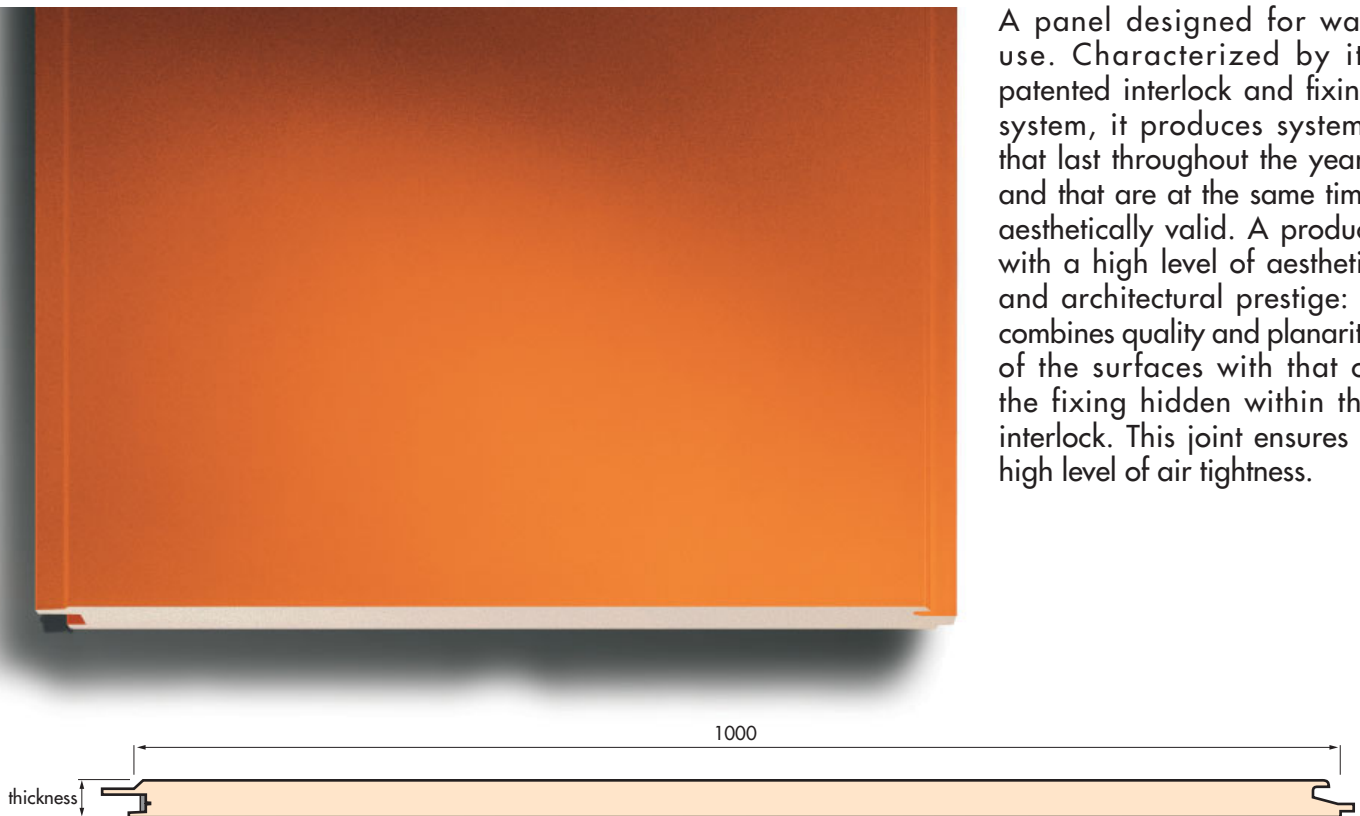




NUOVO ISOPARETE PIANO 1000

A panel designed for wall use. Characterized by its patented interlock and fixing system, it produces systems that last throughout the years and that are at the same time aesthetically valid. A product with a high level of aesthetic and architectural prestige: it combines quality and planarity of the surfaces with that of the fixing hidden within the interlock. This joint ensures a high level of air tightness.



NOTES FOR CONSULTATION OF THE DATA CARD (reference should be made to norm AIPPEG ¹ for anything not mentioned herein)

METAL SUPPORTS

- Laminates of galvanized steel Sendzimir (UNI-EN 10147)
- Laminates of galvanized steel, prevarnished with a Coil Coating procedure
- Laminates of aluminium alloy, with a natural finish, embossed and prevarnished (UNI 9003)
- Prevarnishing carried out by means of a continual-cycle process, with a thickness of the visible side of 5 microns of primer and 20 microns of paint, as follows: PS-PX-PVDF (special products with a high level of anticorrosion are available upon request).
- Laminates of copper (DIN 1787/17670/1791).

INSULATING MASS

Rigid plastic with a high level of insulating power, made from polyurethane resins (PUR) and poliisocianurates (PIR) both self-extinguishable *, with the following standards of quality:

- thermal conductivity at 10°C: $\lambda_m = 0,020 \text{ W/mK}$
- total density: $40 \text{ kg/m}^3 \pm 10\%$
- value of adhesion to supports: $0,10 \text{ N/mm}^2$
- value of compression at 10% of deformation: $0,11 \text{ N/mm}^2$.

THERMAL INSULATION

The coefficients of thermal transmission "K" mentioned in the data card should be considered useful for projects, at 10°C; calculations have taken into consideration the two external and internal laminate resistances and the

thermal conductivity at 10°C (obtained by applying the oversize $m = 10\%$ to λ_m): $\lambda = 0.022 \text{ W/mK}$.

WEIGHT CAPACITY

- Deformation: an indicator, similar to or below 1/200 L is established
- Flexion: it is believed that the pressure of flexion is entirely absorbed by the supporting steel
- Kerf: it is believed that the pressure of the cut is partly absorbed by the supporting steel and in part by the resin.

Information indicated in tables 1 and 2 is to be considered indicative. The project manager should check this data according to the specific applications.

FIXING INSTRUCTIONS

The project manager should evaluate the conditions of use according to the local climatic situation. Particular attention should be paid to the fixing of panels with aluminium or copper supports.

For further information, please consult "RECOMMENDATIONS FOR THE FIXING OF STEEL PANELS AND OF INSULATED METAL PANELS" issued by AIPPEG.

* Upon request, Isopan can supply polyurethane resins suitable to pass the most severe fire reaction tests, to obtain panels of class 0-1 according to D.M. 26/06/1984, class M1 according to the French norm P 92-501, B1 or B2 according to the German norm DIN 4102.

¹ - AIPPEG (Associazione Italiana Produttori Pannelli ed Elementi Grecati): Italian Association of Panels and Ribbed Items Manufacturers.

FIXING INSTRUCTIONS

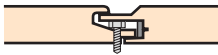
	WALL USE IN NORMAL CONDITIONS	WALL USE IN STRONG DEPRESSION
Type of fixing:	screw	screw-plate 20x60 mm
Screw type and shank:	- self-tapping diam. 6,0 mm for surface support $\geq 3 \text{ mm}$ - self-threading diam. 6,3 mm for surface support $< 3 \text{ mm}$ with false washer incorporated length: nominal thickness of panel - $5 \div 10 \text{ mm}$	- self-tapping diam. 6,0 mm for surface support $\geq 3 \text{ mm}$ - self-threading diam. 6,3 mm for surface support $< 3 \text{ mm}$ with false washer incorporated length: nominal thickness of panel - $5 \div 10 \text{ mm}$
Quantity:	One per panel for all supports	One per panel for all supports

For panels with aluminium supports request special instructions.

OVERLOADS - SPANS

SHEET STEEL THICKNESS 0.5 mm													
EVENLY DISTRIBUTED LOAD		▲————▲						▲——▲——▲					
		PANEL THICKNESS mm						PANEL THICKNESS mm					
		35	40	50	60	80	100	35	40	50	60	80	100
kg/m ²	daN/m ²	MAX. SPAN cm						MAX. SPAN cm					
60	58	310	345	405	455	545	635	360	395	460	525	620	725
80	78	280	310	360	410	490	570	325	355	420	475	565	655
100	98	255	285	335	380	450	525	300	330	385	435	520	605
120	117	240	265	310	355	420	490	280	310	360	410	485	565
140	137	225	250	295	335	395	460	265	290	340	385	460	535
160	156	215	235	280	315	375	435	250	275	325	370	435	510

ALUMINIUM STEEL THICKNESS 0.6 mm													
EVENLY DISTRIBUTED LOAD		▲————▲						▲——▲——▲					
		PANEL THICKNESS mm						PANEL THICKNESS mm					
		35	40	50	60	80	100	35	40	50	60	80	100
kg/m ²	daN/m ²	MAX. SPAN cm						MAX. SPAN cm					
60	58	230	260	300	340	405	470	265	295	345	390	460	535
80	78	210	235	270	310	365	430	240	265	310	355	415	485
100	98	190	215	250	285	335	390	220	245	290	325	385	445
120	117	180	200	235	265	310	365	210	230	270	305	360	420
140	137	170	190	220	250	295	345	195	220	255	290	340	395
160	156	160	180	210	240	280	325	190	210	245	275	325	375



WEIGHTS OF PANELS

WEIGHT	NOMINAL THICKNESS OF PANEL mm					
	35	40	50	60	80	100
kg/m ²	10.10	10.30	10.70	11.10	11.90	12.70

THERMAL INSULATION

K	NOMINAL THICKNESS OF PANEL mm					
	35	40	50	60	80	100
W/m ² K	0.56	0.50	0.40	0.34	0.26	0.21
kcal/m ² h °C	0.49	0.44	0.35	0.30	0.23	0.18

DIMENSIONAL TOLERANCES

DEVIATIONS mm	
Length	± 5
Effective width	± 1
Thickness	± 2
Orthometry and rectangularity	± 3

DRAFT OF SPECIFICATIONS

Nominal thickness: mm _____

Effective width: mm 1000

External support: flat in galvanized steel/aluminium thickness mm _____ prevarnished on the visible side series _____
with 5 microns of primer and 20 microns of paint _____ colour _____

Internal support: flat in galvanized steel/aluminium thickness mm _____ prevarnished on the visible side series _____
with 5 microns of primer and 20 microns of paint _____ colour _____

Insulation: made of rigid plastic with a high level of insulating power made from polyurethane resins, total density kg/m³ 40 ±10%,

Coeff. of thermal transmission: K = _____ W/m² K = _____ kcal/m² h °C

Fixing: type of fixing _____ ; screw type and shank _____ ; qty _____