

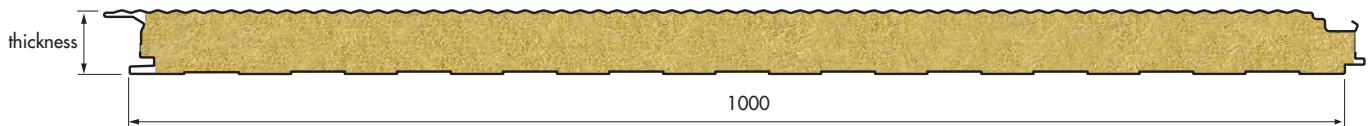


ISOFIRE WALL 1000

Plissé



A panel designed for wall use. It features a core of mineral fibre which ensures that the product is incombustible, besides delivering excellent thermal insulation. It was created to satisfy the growing demand for improved performance in fire behaviour, and is suitable for constructing external walls and internal dividing walls. The particular design of joint means that the screw is concealed inside the panel, thus giving the panel an excellent aesthetic effect.



NOTES FOR CONSULTATION OF THE DATA CARD (reference should be made to norm AIPPEG¹ for anything not mentioned herein)

METAL SUPPORTS

- Rolled steel sheets galvanised by the Sendzimir process (UNI-EN 10147)
- Rolled steel sheets galvanised and prepainted by the Coil Coating process
- Rolled sheets in aluminium alloy, with natural finish, embossed and prepainted (UNI 9003)
- Prepainting carried out by continuous process, with thickness on the visible side of 5 microns of primer and 20 microns of paint, in the following series: PS-PX-PVDF (special products can be supplied on request, with extremely high anti-corrosion properties).

INSULATING CORE

Insulating layer manufactured from high-density mineral fibres (100 kg/m³, $\lambda_m = 0.040$ W/mK at 10 °C).

LOADING

- Deformation: a maximum curvature of 1/200 L is permissible

- Deflection: it is assumed that the deflecting force is completely absorbed by the supporting sheets
 - Shear: it is assumed that the shear force is partly absorbed by the supporting sheets and partly by the insulation.
- The data given in the tables are to be considered indicative. It is left up to the designer to check them in relation to specific applications.

INSTRUCTIONS FOR FIXING

The designer should evaluate the conditions of use in relation to the local climatic situation. Special precautions must be taken over fixing panels with supports in aluminium.

For further information, please consult the "RECOMMENDATIONS FOR FITTING RIBBED SHEETS AND INSULATED METAL PANELS" issued by AIPPEG.

The greatest recommended length for safe movement of the mineral fibre panels is 6000 mm.

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

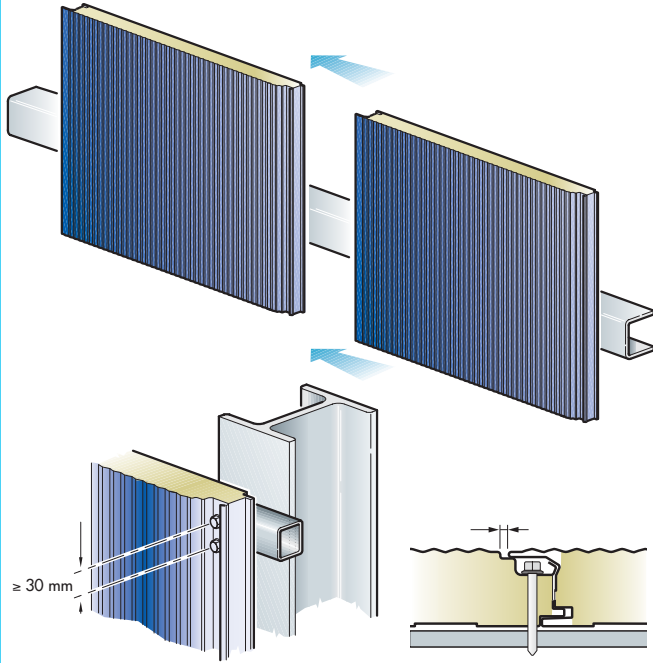
FIXING INSTRUCTIONS

USE IN WALLS

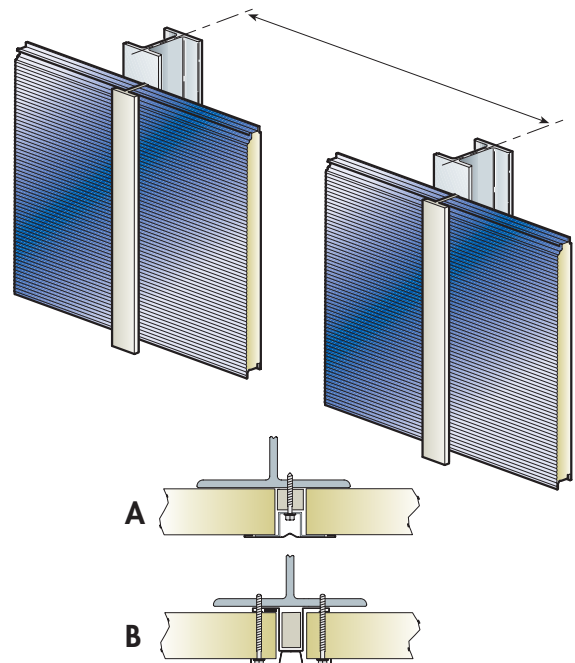
- Type of fixing: screw-washer in PVC (*)
- Screw type and shank: self-piloting $\varnothing 6.0$ mm for bearing thickness ≥ 3 mm
self-tapping $\varnothing 6.3$ mm for bearing thickness < 3 mm
length: panel nominal thickness + 0 \pm 10 mm
- Quantity: Two per panel for end fixings
One per panel for intermediate fixings

(*) In cases of strong depression we recommend fitting a plate under the screw. For panels with supports in aluminium, please ask for special instructions.

VERTICAL USE



HORIZONTAL USE



OVERLOADS - SPANS

GALVANIZED STEEL SHEETS – THICKNESS 0.6 mm											
EVENLY DISTRIBUTED LOAD		PANEL THICKNESS mm					PANEL THICKNESS mm				
		50	80	100	120	150	50	80	100	120	150
kg/m ²	daN/m ²	MAX. SPAN cm					MAX. SPAN cm				
60	58	390	495	555	605	655	420	530	600	660	700
80	78	325	430	480	525	565	360	480	540	580	600
100	98	260	385	430	470	510	290	410	455	490	520
120	117	215	345	390	430	470	240	340	395	420	445
150	147	170	280	345	385	425	190	270	310	340	375

In the planning stage, together with the analysis of static load, the holding of the joint has to be taken into consideration.

THERMAL INSULATION

K	NOMINAL THICKNESS OF PANEL mm				
	50	80	100	120	150
W/m ² K	0,75	0,5	0,4	0,33	0,27
kcal/m ² h °C	0,67	0,44	0,35	0,30	0,24

WEIGHTS OF PANELS

STEEL THICKNESS	WEIGHT	NOMINAL THICKNESS OF PANEL mm				
		50	80	100	120	150
0,5	kg/m ²	12,8	15,5	17,3	19,5	22,7
0,6	kg/m ²	14,50	17,20	19,00	21,40	24,40

DIMENSIONAL TOLERANCES

DEVIATIONS mm	
Length	± 5
Net width	± 3
Thickness	± 2
Squareness and rectangularity	± 3

DRAFT OF SPECIFICATIONS

Nominal thickness: mm _____

Effective width: mm 1000

External support: microribbed, in galvanised steel/aluminium, thickness mm _____, pre-painted visible side: line _____, with 5 microns of primer and 20 microns of painting _____, colour _____

Internal support: microribbed, in galvanised steel/aluminium, thickness mm _____, pre-painted visible side: line _____, with 5 microns of primer and 20 microns of painting _____, colour _____

Insulation: carried out by high-density mineral fibres (100 kg/m³)

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

Fixing: type of fixing device _____; type of screw _____; quantity _____