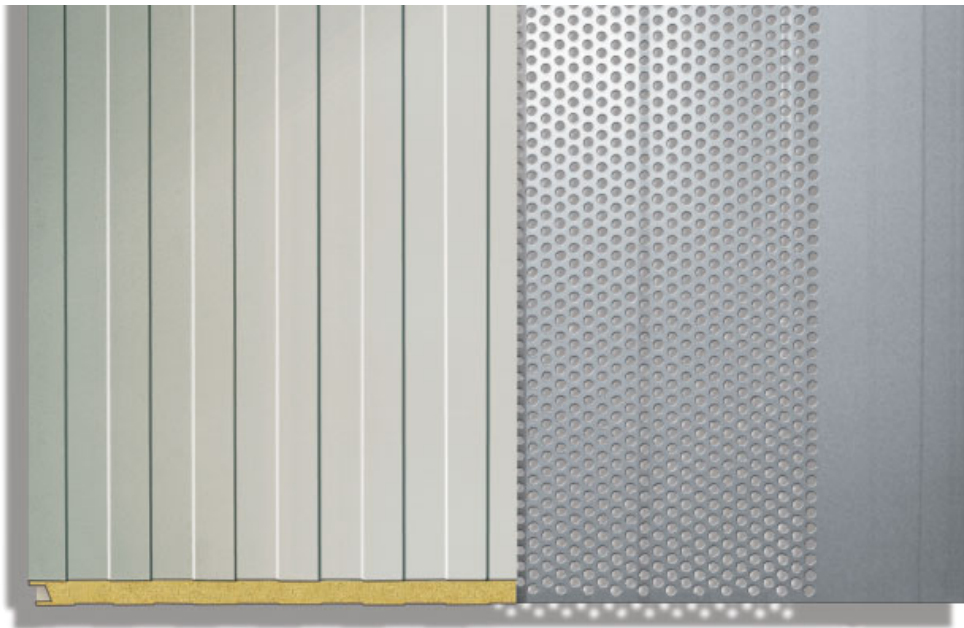
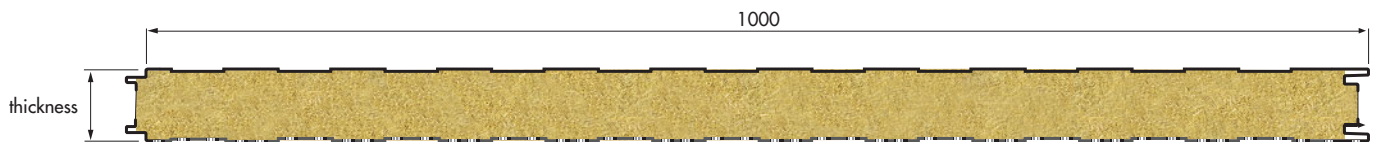




ISOFIRE WALL - FONO



The range of "FONO" panels was designed to satisfy the increasing demands for performance in sandwich panels in terms of soundproofing, guaranteeing the non-combustibility of the product at all times. The ISO FIRE WALL FONO is used for wall panelling.



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

METAL SUPPORTS

- Sendzimir galvanised steel sheet (UNI-EN 10147).
- Galvanised steel sheet, pre-painted by means of a Coil Coating process.
- Aluminium alloy sheet, mill finish, stucco embossed or pre-painted (UNI 9003).
- Continuous pre-painting process with a 5 µm thick primer and a 20 µm paint on the item's visible side. Available in the following lines: PS-PX-PVDF (On request, ISOPAN can also supply very anticorrosive special products).

INSULATING LAYER

Insulating layer made of high-density mineral fibre (100 kg/m³, λ_m = 0.040 W/mK at 10°C).

LOAD LIMITS

- Deflection: a deflection equal to or lower than 1/200 L of the free span is admitted.

- Deflection: it is assumed that the bending stress is completely absorbed by the steel support sheets.
- Cut: it has been assumed that the cutting stress is absorbed partly by the steel support sheets and partly by the insulation material.

The data specified in tables 1 and 2 are to be considered as indicative. The designer will have to verify and adjust such details with regard to every specific application.

FIXING INSTRUCTIONS

The designer will have to evaluate the conditions of using the product, according to the local climatic situation. It will be necessary to adopt some particular precautions when fixing panels with aluminium or copper surfaces.

For further information, please refer to the "RECOMMENDATIONS FOR ASSEMBLING RIBBED SHEETS AND INSULATED METAL PANELS", issued by the AIPPEG Association.

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

FIXING INSTRUCTIONS

	<i>USE OF ISO FIRE WALL - FONO</i>
Type of fixing:	<i>screw-PVC washer (*)</i>
Screw type and shank:	<i>self-tapping, Ø 6.0 mm for ≥ 3 mm thick supports; self-threading, Ø 6.3 mm for < 3 mm thick supports, with false incorporated washer; length: panel nominal thickness + 20 ÷ 30 mm</i>
Quantity:	<i>Two for each panel (terminal supports); one for each panel (intermediate supports)</i>

(*) in the case of strong depression the use of a Ø 50 mm washer is recommended. For panels with aluminium or copper supports, please ask for specific instructions.

SHEET STEEL 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	270	380	430	460	484	340	435	480	510	530
80	78	215	330	365	385	399	295	370	425	460	485
100	98	175	275	330	355	374	260	335	370	390	405
120	117	155	235	290	315	334	240	305	340	360	375
150	147	123	195	235	255	269	218	268	305	331	350

WEIGHTS OF PANELS

STEEL THICKNESS	WEIGHT	NOMINAL THICKNESS OF PANEL mm				
		50	80	100	120	150
0,6	kg/m ²	12,82	15,52	17,32	19,72	22,72



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

DIMENSIONAL TOLERANCES

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

On request ISOPAN can issue the following certifications concerning noise behaviour:

SOUND INSULATION

R_w = 29 dB; R_w = 32 dB - (Wall fono, 50 and 80 thick)

NOISE ABSORPTION

Δ LA,Str = 15.1 dB (as>1)

Δ LA,Str = 18.6 dB (as>1) - (Wall fono 50 and 80 thick)

