

Self-supporting sandwich panel for sound absorption in industrial environments, with internally perforated steel sheet for sound absorption and solid external steel sheet for noise reduction. Possibility of inserting a central septum partition or supported steel sheets to increase panel acoustic performance.

Certifications

α_c 1.0

Sound absorption

up to α_S 1.0 in
compliance with ISO 354

R_w 47

Sound insulation

up to R_w 47 dB in
compliance with ISO 140-3

A1

Reaction to fire (materials)

A1 Euroclass in
compliance with EN 13501-1

Use and specifications



Acoustic comfort

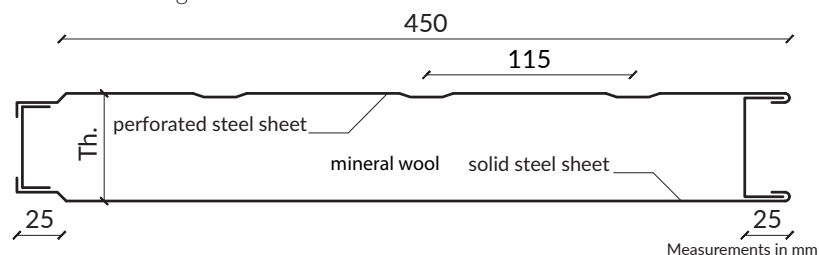


Fast assembly

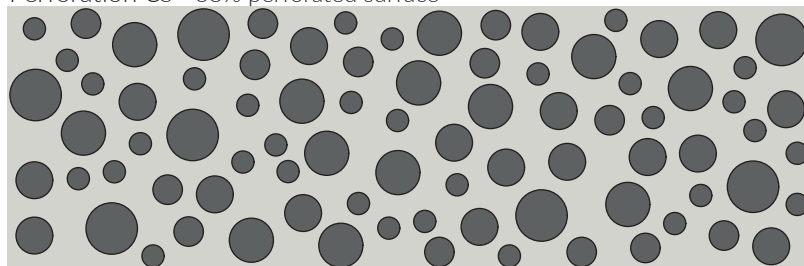


Industrial wall

Technical drawing



Perforation CS - 38% perforated surface

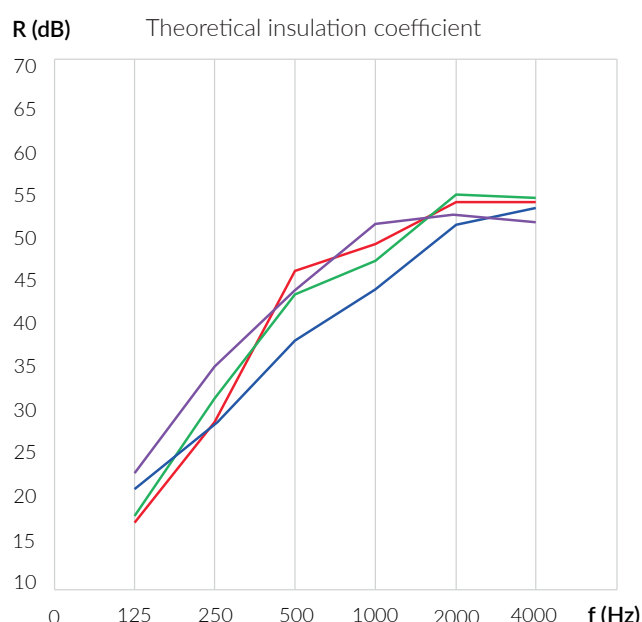
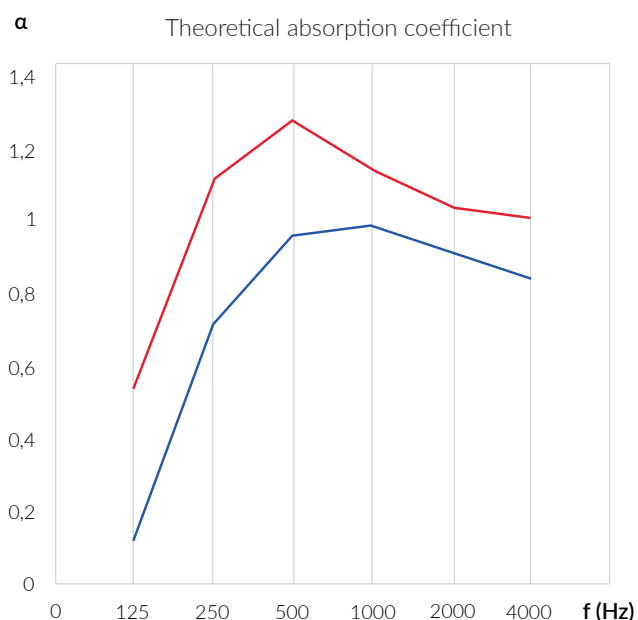


Reference measurements*:

Width.	Length.	Thickness.
450 mm	from 2400 mm to 6000 mm	from 80 mm to 100mm

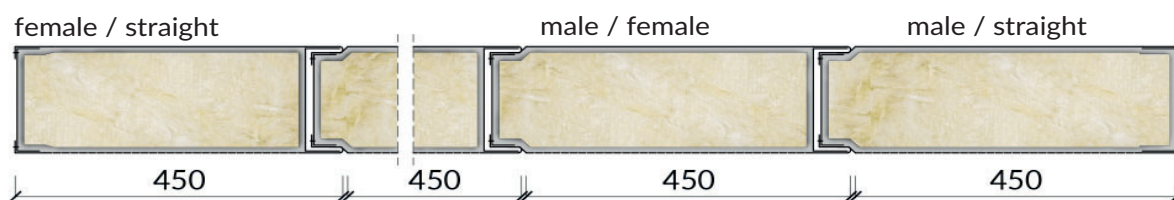
* Size can be customised to prevent cuts and adjustments.

name	α	R_w (dB)	internal steel sheet (mm)	external steel sheet (mm)	internal materials	insulated core	thick. (mm)	weight (kg/m ²)	transmitt. (W/m ² K)	
IW40	1.0	40	0.5	1.0	supported steel sheet	1 mm	mineral wool	80	29.3	0.44
IW41	1.0	41	0.5	1.0	central steel sheet	1 mm	mineral wool	80	29.3	0.44
IW42	1.0	42	0.5	1.0	central steel sheet	1.5 mm	mineral wool	80	33.2	0.44
IW47	1.0	47	0.5	1.0	supported steel sheet drywall	1.5 mm 10 mm	mineral wool	100	46.0	0.38



— IW40 — IW41 — IW42 — IW47

— IW40 — IW41 — IW42 — IW47



Medidas in mm

The Insulation Wall Plus panel has different types of joints: the traditional male/female and the two female/straight and male/straight joints. For specific projects, Panurania can produce panels with customised dimensions so as to prevent subsequent cuts and adjustments.