

# METAL PANELS

## STAINLESS STEEL panels



Where do I use this kind of panel?

WITH HE-PROFILES	WITH LATTICE STEEL STRUCTURE	WITH SHAPED PROFILES
✓	✓	X

The metal panel has a liner tray made of:

Rear full half-shell sheet in stainless steel AISI 304-, thickness 1,2 mm (1), the metal sheet it can be painted in all RAL chart colours.

Rock-wool sound-absorbent slab, protected, on the side facing to the noise source, by a fiberglass or as alternative recyclable polyester fibres



The ends will be closed off with patented and UV resistant plastic heads in polypropylene ensuring perfect sealing and having the function of acoustic gaskets and suitable for the installation of post groove spacers

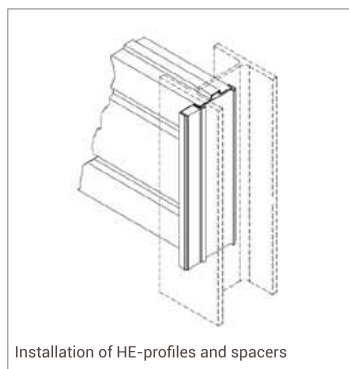
Front perforated half-shell sheet in stainless steel AISI 304 with minimum perforation of 35%, 1,2 mm thick (1), after profiling the metal sheet can be painted in all RAL chart colours

UV resistant polypropylene spacers, if required, can be instantly installed on side panel heads and allow the same panel to be used on different HE profiles with different grooves, from HE160 (3) or equivalent grooves.

<sup>(1)</sup> depending on requirement it is possible to use different metal sheets with different thicknesses

The panel can be mono-absorbing (perforated on one face) or double-absorbing (perforated on both its faces) with internal soundinsulating metal sheet to increase the acoustic performance.

**DIMENSIONS OF PANEL**  
length up to 5.000 mm  
height 500 mm  
thickness 120 mm



Installation of HE-profiles and spacers

## SOUND-ABSORBING PANEL IN STAINLESS STEEL

FEATURES	HARMONIZED NORMS	Mono-absorbing panel thck.120mm metal sheet thck. 1,2 mm rock wool thck. 85 mm density 100 kg/m3	CLASS	Double-absorbing panel thck.120 mm metal sheet thck. 1,2 mm rock wool thck. 80 mm (40+40) density 100 kg/m3 internal full metal sheet, thck.1,2 mm	CLASS
Sound-absorption DLalfa	UNI EN 1793 - 1 and 3 UNI EN ISO 354	DL alfa =14 dB	cat. A4	DL alfa =18 dB	cat. A4
Sound-insulation DLR	UNI EN 1793- 2 and 3 - UNI EN ISO 717-1	DLr =31 dB - RW=36 dB	cat. B3	DLr =25 dB - RW=28 dB	cat. B3
Self weight resistance: dry weight and reduced wet weight	UNI EN 1794	dry weight: 30,7 kN/m2 reduced wet weight: NPD	-	dry weight: 30,7 kN/m2 reduced wet weight: 0,21 NPD	-
Flexural and torsional fatigue test	Specification RFI-DIN\ A0011\PL\2008\0000721 from the 8th April 2008	250 kg/m2 (flexural test) - 1/150 H (torsional test)	-	250 kg/mq2 (flexural test) - 1/150 H (torsional test)	-
dynamic load resistance due to snow clearance	UNI EN 1794 App. E	10 kN / 2mx2m	-	10 kN / 2mx2m	-
risk of falling debris	UNI EN 1794 - 2 App. B	no fragment pieces	3	no fragment pieces	3
Light reflection	UNI EN 1794 - 2				
Stone impact resistance	UNI EN 1794 App. C	satisfying performance	-	satisfying performance	-
Anchoring of mineral wool	Technical drawing FS ED. 1998	positive result - no evidence of anchor alterations or displacements of mineral wool		positive result - no evidence of anchor alterations or displacements of mineral wool	
Compressive strength of elements in polypropylene after bright ageing	RFI performance	positive result - till 4,5 GJ/m2		positive result - till 4,5 GJ/m2	
Accelerated ageing resistance of applied painting cycles	UNI EN ISO 9227 - UNI EN ISO 6270-1 - UNI EN ISO 2409 - UNI EN ISO 2808 - UNI EN ISO 6272-2	humidity resistance: 1.500 h, corrosion resistance during exposure in spray cabinet 1500 h - impact test: resistance after falling 1 kg mallet from 1 m - cohesion: grade 0 (maximum)		humidity resistance: 1.500 h, corrosion resistance during exposure in spray cabinet 1500 h - impact test: resistance after falling 1 kg mallet from 1 m - cohesion: grade 0 (maximum)	

## FINISHING

Possibility of completing the product with additional patented accessories to personalize the panels of the barrier, like:

- terracotta cladding
- wood-like effect or anti-graffiti painting treatments (various colours/essences)
- possibility to reproduce drawings (architectural motifs) on metal sheet, and to make customised hole patterns and hole dimensions

