

WOODEN PANEL

The panel consists of autoclave-treated wooden elements, assembled to form a single unit. The load-bearing structure consists of pine wood beams having a thickness of 50 mm and a width of 100 mm (nominal values), fixed to one another to form a framework. On the rear is a matchboarding surface with minimum thickness 20 mm, consisting of tongued and grooved boards. On the inside is a sound-absorbent blanket with adequate spacing to create a sound-proofed chamber, protected externally by a black or green plastic mesh. The aesthetic finish was obtained by arranging suitable pine wood strips vertically (standard arrangement), horizontally and diagonally, or according to customisable patterns to match project drawings.

The sound-deadening material can consist of a mineral wool blanket at least 50 mm thick with a density of at least 90 kg/m³ or CIRFIBER, a panel made from 100% polyester fibres with density and thickness values which may also be to order. This item is 100% recyclable.

All wooden parts are pine wood, in compliance with the UNI EN 350-1 and UNI EN 350-2 standards, and after machining completion they will undergo autoclave treatment in accordance with the DIN 68800 standard part III with copper- and boron-based, chrome- and arsenic-free mineral salt primers.

Pigmentation is light green.

Rated panel dimensions are as follows:

- max height 3000 mm
- max length 500 mm
- thickness 100 mm

Height can reach 8000 mm with overlapped elements, while length can attain 4000 mm.

Acoustic tightness is guaranteed between uprights and panels and between panels. The panels will be produced with wooden heads having suitable dimensions according to the containment uprights.

The panel is built so as to prevent any stagnation of water, is self-supporting and will resist the weight of overlying panels.

To reduce vibration and improve soundproofing performance gaskets are to be inserted between the panels and the uprights. Gaskets shall be made of materials that are compatible with the various working temperatures.

Shore hardness complies with the UNI EN ISO 868:2005 standard.

The panel will be inserted inside HE beams or galvanised and/or painted tubular pipes. The beams will be sized according to the overall height of the barrier and feature suitable systems for anchoring to the foundation plus all the nuts/bolts/screws etc. needed to complete installation. Foundation work is not included.

The locking system can be implemented by using either treated wood groove compensators or metal thrust screws over the whole panel height.