

DEFINITION-APPLICATIONS



Plystone subfloors is a construction system that creates a solid and stable horizontal surface with the capacity to safely support the stress generated by the action of specific and service loads. It transfers loads to the primary structures of the construction, and defines a vertical limit between two spaces.

Consult the technical data sheets of the Plystone boards at www.plycem.com

Tongue and groove joint edge



(25mm)



(20 y 22 mm)

Straight edge



Measurements	
Thickness	20,22,25 mm
Width	1219 mm
Length	2438 mm

Consult availability of other thicknesses (30mm), edge types and other sizes.

STORAGE AND HANDLING



- Always store the panels indoors in ventilated and dry areas; both in the commercial warehouse and on the construction site. Do not expose the panels to the outside (rain, sun or snow). In flat surfaces, stack them on pieces of wood (do not leave them directly on the ground). If you leave them temporarily outside, you must cover the pallet with a waterproof mantle.
- Plystone subfloor panels must be loaded by at least 2 people. Transport the covered panels with a waterproof mantle, preventing them from getting wet on the trip to the commercial warehouse or the construction site.
- Always handle the boards on their edges, avoiding deflections in a horizontal position.
- Always stack the boards in the correct position on aligned supports. Avoid deformation during stacking. Do not stack more than 3 pallets one on top of the other.

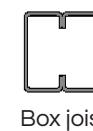
STRUCTURE



Track



Stud



Box joist



W Beam



Structural Tube

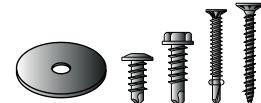


Wood joist

FASTENINGS



- LH 8-050 SCREW (structure)
- MM 10-075 SCREW (structure)
- PH 8-125 (Plycem in steel)
- PL 8-175 (Plycem in wood)
- PH 10-150 (Plycem in steel)
- PH 8-162 (Plycem in steel)
- PH 10-175 (Plycem in steel)
- PH 8-225 (Plycem in steel)



ACOUSTIC INSULATORS



Anti-vibration tape



Rubber band



Cure wood piece of 50x100 mm min



Sikaflex 15 LM, 1A Plus o similar



Finish membrane Acrylic adhesive (geotextil NT 1600)



TOOLS

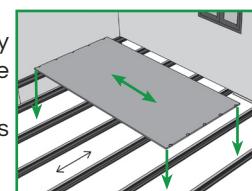


INSTRUCTIONS



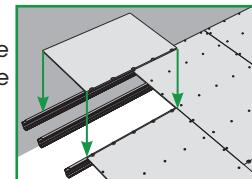
The following types of vibration damping systems can be used for the noise:

- Polyurethane Sealant: Use a bead of polyurethane sealant Sikaflex 15 LM or the like preferably applied in a zig-zag way along the entire support structure. Applying the polyurethane some hours before placing the panel is required because it must to be dry to the touch.
- Wood Pieces: Alternatively, a dry cured wood piece can be placed on the structure (it has great damping features).
- Rubber Seal.
- Anti-vibration Tape.



Plystone boards are always placed with their long dimension in direction perpendicular to the position of the floor joists. **Never place the panel on the same direction of the joists.** Panels should be fastened by using the Plycem screw indicated for wooden or metal structures.

Make sure that the entire section of the panel is fastened at least on 3 supports; therefore, its maximum length larger than 610mm



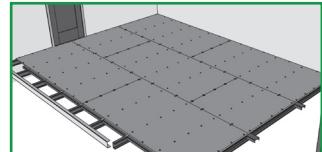
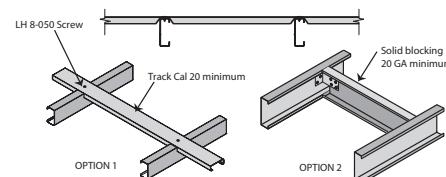
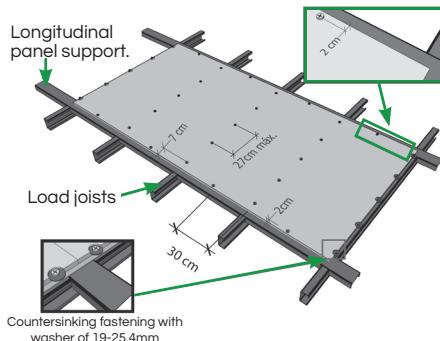
PRODUCT WITH


THE INTERNATIONAL EPD® SYSTEM

INSTRUCTIONS

Straight edge board

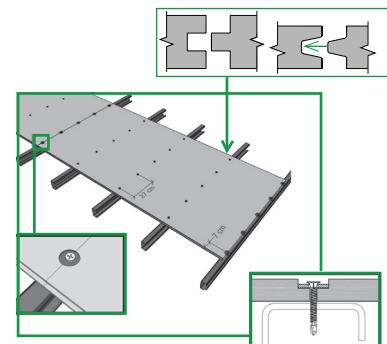
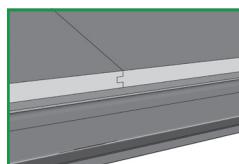
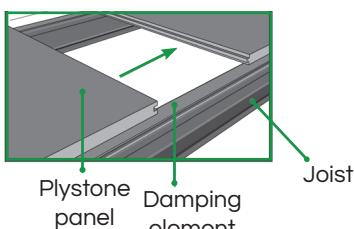
In order to reduce relative deformations in the longitudinal joints, a longitudinal support should always be provided for each board width.



Also placing the panels in a staggered position in order not to have continuous cross-sectional joints

Tongue and groove board

Plycem also offers boards with a **tongue and groove** joint in the long dimensions that ensure support between them, without requiring the support piece in the structure (blocking).



- A waterproof wrap is recommended for subfloors exposed to rain or high levels of moisture at least on nonworking hours or during installation. Finishing systems must be applied on the dry Plycem surface.
- The subfloors close to the ground (less than 50cm) must be waterproofed on the underside.

FINISHING

- Laminate Floor:** Laminate wood floor is placed directly according to the manufacturer's instructions. Usually this floor has a polyethylene insulation of the Underfloor type (Prodex or similar).
- Wood Floor:** The wood board floor is placed directly on the Plystone base or on cured wood strips of 25x50 mm every 500mm. The space between wood strips can be filled with a 25.4 mm expanded polystyrene board glued with white glue to the Plystone base and to the wood board. The tongue and groove wood floor is fastened with nails.
- Carpet Floor:** The carpet is directly placed on the Plycem base according to the manufacturer's instructions. An undercarpet can be placed as insulator, and then the carpet can be placed. In all cases, seal the Plystone surface with some acrylic waterproofing to protect it from moisture that can be accumulated on the carpet due to any water spill.
- Vinyl Floor:** The vinyl floor as resilient membrane requires the Plycem base surface to be duly levelled in order not to copy any deformation in the finishing and damage the vinyl. Place a leveling mortar over the geotextile membrane (see installation manual).
- Ceramic Floor:** The application of ceramic or porcelain tiles requires treating the joint and the surface of the Plystone baseboard. To do this, the thinnest NT-1600 (non-woven) geotextile membrane should be used. It will serve as interface between the fiber cement and the ceramic tile.
 - Clean the surface from dust, waste or dirt.
 - Apply the acrylic adhesive (Lanco Supreme or the like) on the surface of the Plycem panel by using a notched trowel and leaving a thin layer.
 - Immediately place the geotextile and extend it without leaving any overlapped section or folds on the surface. Press it down with the trowel.
 - Proceed to glue the ceramic tiles with cement-based mortar.
 - Treat the joints with common mortar for ceramic joints, but previously dampen the mortar joint with a paint brush.

In high traffic floors without ceramic finish or other, place as abrasion protection, a heavy duty vinyl band, paint with epoxy paint or other similar system.

PRODUCT WITH

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