

Technical Data Sheet

PackWall

- board product from recycled raw material, from beverage cartons.

Product description:

A structural and furniture board made by special technology which recycles waste from more layers beverage and food cartons under high temperature and pressure. The production technology uses physical properties of the secondary raw material without the addition of adhesives, diluents and other additives.

Scope of use:

PackWall boards are designed for places where gypsum, cement-bonded, cement-fibre, OSB, MDF, and HDF board materials are used. This is, for example, for building perimeter walls, ceilings, partitions, floors, vaults, false ceilings, as part of the sandwich masonry, or as construction closures or a building or formwork. The boards can also be used for final outer sheathing in a protected exterior, especially against direct water and excessive sunlight. In other cases it is necessary to use top surface treatments (exterior coating materials with protective UV component). For the interior, the boards can be veneered, laminated, glued, varnished, etc. or – in case of modifications of the **PackWall design / panel** – be left exposed. The transparent cover layer offers a unique opportunity to show the structure of the original material (raw material). Last but not least, thanks to its properties, **PackWall** boards can be used to produce of the furniture and design elements (expositions).

Technical data:

- **Low absorption** – about half of the wood-based boards
- **Mechanically durable and strength**
- **Flexible** – up to 1,400 mm in diameter and with the heat
- **Trowellable** – render or skim coat can be applied
- **Can be tiled** – any floor or wall tiles
- **Re-coatable** – the surface is adherent to all common coatings, paints, varnishes etc.
- **Noise damping**
- **Thermally insulating** – aluminium parts which are containing in raw material, return part of the radiant heat back into the room
- **Hygienically safe** – certified by the National Institute of Public Health in Prague
- **Ecological** – environmentally friendly, reusable

Technical data:

Swelling after immersing in water	< 10 %, conc. 7,2 % after 24h of immersion
Geometric accuracy of thickness	nominal dimension ± 10 %
Tensile strength in bending	≥ 5 MPa
Tensile strength perpendicular to the plane of the board	$\geq 0,10$ N/mm ²
Shear Strength	≥ 980 N
Head stretching parameter	≥ 10 MPa
Modulus of elasticity	$\geq 1 500$ MPa
Shore D hardness	D = 43,5
Bolt resistance	~ 55 N/mm
Water vapour diffusion resistance factor	$\mu = 111$
Coefficient of thermal conductivity	$\lambda = 0,127$ W/m·K
Health and hygiene safety	no release of volatile substances
Sound-transmission loss	R _w = 31 dB (at plate thickness 13 mm)
Reaction to fire	class D – s1, d1
Density	~ 753 kg/m ³
Extracting force of smooth nail embedded in the surface	F _{max} = 72 N (20°C, 65%RH)
Extraction force of a conventional (twisted) nail embedded in the surface	F _{max} = 103 N (20°C, 65%RH)



Production modifications and dimensions:

	dimension [mm] thickness [mm]	1250 x 2500				1080 x 2500				625 x 2500				
		8	12	15	18	8	12	15	18	8	12	15	18	
PACKWALL basic - standard board - straight edge		obverse - carton paper with logo reverse - carton paper	In Stock	In Stock	In Stock	In Stock					In Stock	In Stock	In Stock	In Stock
PACKWALL basic - standard board - grooved edge for insertion of fasteners		obverse - carton paper with logo reverse - carton paper		In Stock	In Stock	In Stock						In Stock	In Stock	In Stock
PACKWALL basic - standard board - rounded edge for puttying*		obverse - carton paper with logo reverse - carton paper	In Stock	In Stock	In Stock	On order								
PACKWALL basic - standard board - overlapping "Z" edge		obverse - carton paper with logo reverse - carton paper		On order	On order	On order						On order	On order	On order
PACKWALL surface - board with smooth surface - straight edge		obverse - carton paper with higher grammage and logo reverse - carton paper	In Stock	In Stock	In Stock	In Stock					In Stock	In Stock	In Stock	In Stock
PACKWALL surface - board with smooth surface - grooved edge for insertion of fasteners		obverse - carton paper with higher grammage and logo reverse - carton paper		In Stock	In Stock	In Stock						In Stock	In Stock	In Stock
PACKWALL surface - board with smooth surface - rounded edge for puttying*		obverse - carton paper with higher grammage and logo reverse - carton paper	In Stock	In Stock	In Stock	On order								
PACKWALL surface - board with smooth surface - overlapping "Z" edge		obverse - carton paper with higher grammage and logo reverse - carton paper		On order	On order	On order						On order	On order	On order
PACKWALL design# - board with transparent surface on one side - straight edge		obverse - parchment paper reverse - carton paper	On order	On order	On order	On order	In Stock	In Stock	In Stock	In Stock	On order	On order	On order	On order
PACKWALL design# - board with transparent surface on one side - grooved edge for insertion of fasteners		obverse - parchment paper reverse - carton paper		On order	On order	On order						On order	On order	On order
PACKWALL design# - board with transparent surface on one side - overlapping "Z" edge		obverse - parchment paper reverse - carton paper		On order	On order	On order		On order	On order	On order		On order	On order	On order
PACKWALL design panel# - board with transparent surface on both sides - straight edge		obverse - parchment paper reverse - parchment paper	On order	On order	On order	On order	In Stock	In Stock	In Stock	In Stock	On order	On order	On order	On order
PACKWALL design panel# - board with transparent surface on both sides - grooved edge for insertion of fasteners		obverse - parchment paper reverse - parchment paper		On order	On order	On order						On order	On order	On order
PACKWALL design panel# - board with transparent surface on both sides - overlapping "Z" edge		obverse - parchment paper reverse - parchment paper		On order	On order	On order		On order	On order	On order		On order	On order	On order

* - both edges with a length of 2,500 mm

- can be manufactured in various colours, minimum amount is 50 pcs of boards

Truck purchases always consult our customer service.

In Stock
 On order

Processing:

PackWall boards are handled in the same way as commonly available boards on the market. It is easily cut with a hand saw or a circular saw. Drilling can be done with standard drilling machines. By attaching the board to the structures, it is possible to use standard tools, aku drill machines, screwdriver bits or nailing devices. The surface of the boards may stay in its raw form (especially in the case of the **PackWall design / panel**) or plastered, trowelled, painted, covered with ceramics tiles, glued, laminated etc.

Important notice:

Before installing the ceramic floor and wall tiles, mineral renders, skim coats or other coatings, the substrate must be primed with suitable impregnations, e.g. Duvilax VV or similar materials. Cutting edges, as with the wooden materials, should be treated with paint, especially when intended for exterior use. Ideally, choose the design of the structures so that the boards in the external environment were ventilated. If the boards get moist they must be allowed to dry out.

Storage and transport:

On base pallets, dry and protected from external influences, **12 months** from date of production. The date of production is shown on the product nameplate. No special conditions are required for handling or shipping.

Safety instructions:

When working with the boards, follow all safety and technological rules. From the point of view of human health, the product is neither irritating nor dangerous. Use normal protective equipment.

Pallets of boards always stack horizontally on a fine leveled surface. The boards protect during the transport and storage from entering of direct water. In particular, edges before rain or accidental soaking. The boards fold so that they lie with whole surface one on second. Any handling should avoid damage to surfaces and especially edges. Unsuitable storage and poor handling can lead to degradation of the boards.

Disposal instructions for waste material:

Remove unprocessed material residues should be disposed of according to national and local regulations. The residues should be disposed of in the same way as the product.

The working conditions and range of use of the products may vary. General guidelines to material processing are included in the Technical Data Sheet. The processor is required to check the suitability and use of the product for the intended purpose. In the case of requirements beyond the general guidelines, the manufacturer's advice should be sought, which is provided at customer's request within the customer service and is governed by the applicable terms and conditions of the seller. The seller is not liable for damage if the buyer deviates during application and installation of the products from the technical conditions, storage conditions, manufacturer's instructions and useable lives. Up-to-date information about company products as well as the general terms and conditions are available at www.packwall.cz.

Issued on: October 2018

The new edition replaces all previous editions.