

## Technical Data Sheet

### **PackWall**

Construction boards made from recycled raw materials, beverage cartons and plastic.

### **Product description:**

Construction and furniture board produced using a patented technology that utilizes recycled beverage cartons. The board is made using high temperatures and pressure. The production technology uses the physical properties of above-mentioned raw materials without the addition of glues, thinners, water, or any other additives.

### **Scope of use:**

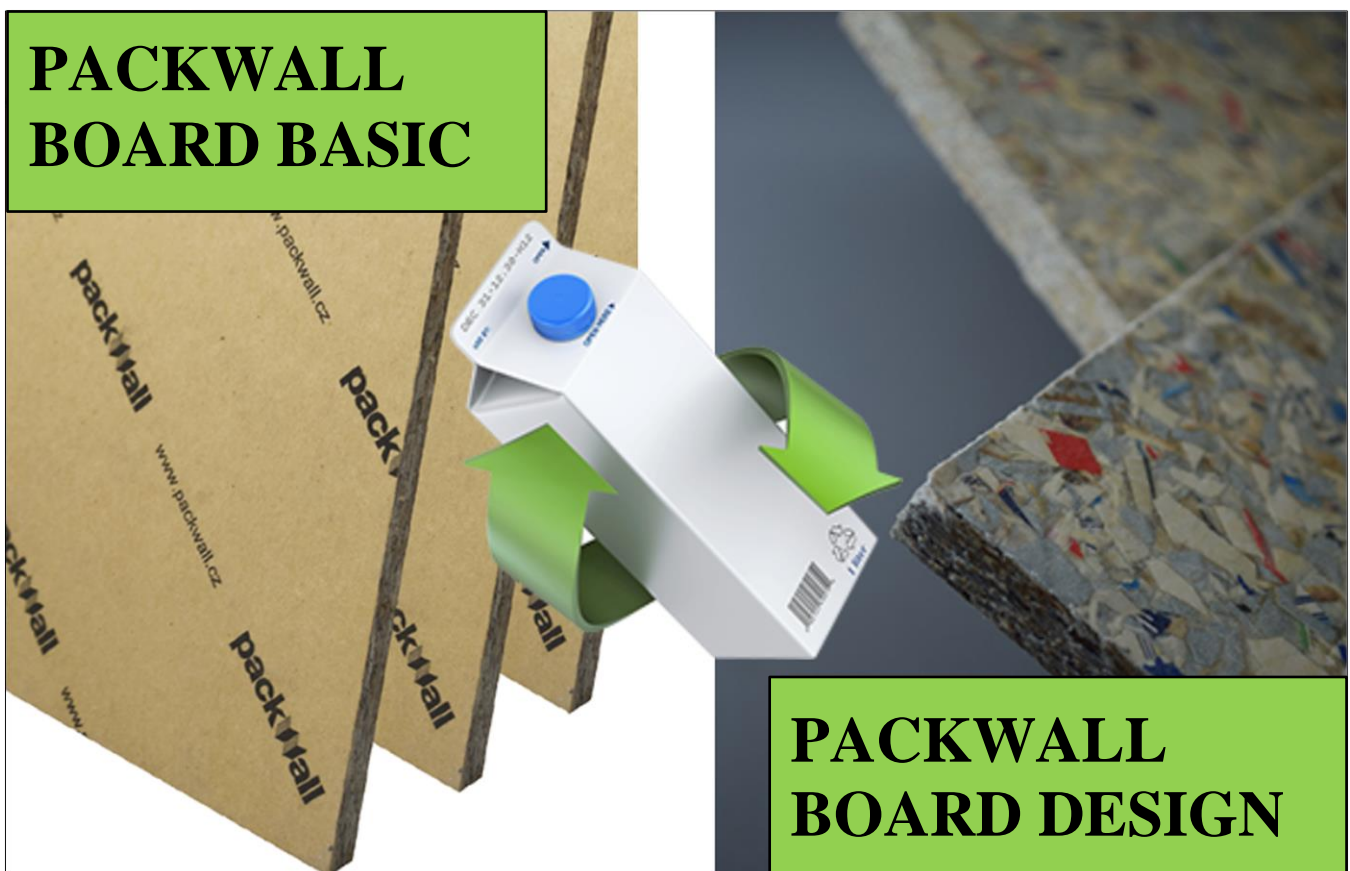
PackWall boards are designed to be used as a substitute in places where plasterboard, cement chip board, OSB, MDF and HDF board materials are used. The boards can be plastered, grinded, painted, wallpapered, tiled, or puttied. The boards can be used for internal partitions and soffits, sandwich panels, perimeter walls, floors and leveling plates, temporary fillings of construction openings, construction fences, or as a roofing base board. The boards can also be used for final exterior cladding in a protected environment, especially against direct water and excessive sunlight. In other cases, it is necessary to use top surface treatments (exterior paints with a protective UV component). For the interior, in the case of a production modification, the PackWall design board can be left visible. The transparent covering layer thus 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 make furniture and other design elements (exhibits).

### **Product features:**











- **Low absorbency** – about half as much as wood-based boards
- **Mechanically durable and strong**
- **Flexible** – up to 1400 mm in diameter when heat is applied
- **Plasterable** – plaster or trowel can be applied
- **Tileable** – any tile or cladding can be applied
- **Paintable** – the surface is adhesive for all common coatings, paints, varnishes, etc.
- **Noise insulating**
- **Heat insulating** – in addition, the aluminum parts in beverage cartons return part of the radiant heat back to the room
- **Hygienically safe** – certificate from the State Health Institute in Prague
- **Ecological** – environmentally friendly, re-processable

**Technical data:**

Basic characteristics	Properties	Harmonized technical specification
Modules of Elasticity $E_m$	$\geq 393 \text{ N/mm}^2$	EAD 210138-00-0504:2020
Flexural strength $f_m$	$\geq 3,58 \text{ N/mm}^2$	
Reaction to fire	D - s1, d1	
Diffusion resistance $\mu$	705	
Tensile strength perpendicular to the plane (flaking) $f_l$	$\geq 0,06 \text{ N/mm}^2$	
Head elongation resistance $f_{head}$	$\geq 3,43 \text{ N/mm}^2$	
Determination of hardness by pressing the tip of the Shore D hardness tester (SHORE Hardness)	43,5	
Durability - swelling after soaking in water $G_t$	$\leq 13,4 \%$ (thickness 18mm)	
	$\leq 25,2 \%$ (Others)	
Durability - moisture resistance	$\geq 0,061 \text{ N/mm}^2$	
		- residual tensile strength perpendicular to the plane of the board (flaking) $f_{l, Res}$
- residual swelling after immersion in water $G_{t, res}$	$\leq 6,9 \%$	
Air soundproofing $R_w$ (C; Ctr)	$\geq 32(0;-3) \text{ dB}$	
Thermal conductivity $\lambda$	$\leq 0,19 \text{ W(m}\cdot\text{K)}$	



**Product modifications and dimensions:**

	dimension [mm] thickness [mm]	1250 x 2500				625 x 2500			
		8	12	15	18	8	12	15	18
<b>ACKWALL basic</b> - standard board - straight edge 	obverse - ologated cardboard paper reverse - cardboard paper	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>PACKWALL basic</b> - standard board - edge with grooves for insertion of connecting lamellas 	obverse - ologated cardboard paper reverse - cardboard paper		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>PACKWALL basic</b> - standard board - rounded edge for sealing* 	obverse - ologated cardboard paper reverse - cardboard paper	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<b>PACKWALL basic</b> - standard board - overlay "Z" edge 	obverse - ologated cardboard paper reverse - cardboard paper		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>PACKWALL design #</b> - board with transparent surface on one side - straight edge 	obverse - parchment paper reverse - cardboard paper	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>PACKWALL design #</b> - board with transparent surface on one side - edge with grooves for insertion of connecting lamellas 	obverse - parchment paper reverse - cardboard paper		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>PACKWALL design #</b> - board with transparent surface on one side - overlay "Z" edge 	obverse - parchment paper reverse - cardboard paper		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>PACKWALL design panel #</b> - board with transparent surface on both sides - straight edge 	obverse - parchment paper reverse - cardboard paper	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>PACKWALL design panel #</b> - board with transparent surface on both sides - edge with grooves for insertion of connecting lamellas 	obverse - parchment paper reverse - cardboard paper		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>PACKWALL design panel #</b> - board with transparent surface on both sides - overlay "Z" edge 	obverse - parchment paper reverse - cardboard paper		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\* - these are boards with a length of an edge 2,500 mm

# - Board can be produced in different colors, minimum order of 50 pcs

In stock  
 To order



### **Processing:**

PackWall boards are treated in exactly the same way as commonly available boards on the market. It is easy to cut with a hand saw or a circular electric saw. Drilling can be done with standard drill bits. During the attachment to different surfaces, it is possible to use standard tools, electric drills, screwdrivers or nails or a nail gun. The surface of the board can be preserved in raw form (especially in the case of the PackWall design / board) or plastered, painted, varnished, ceramic tiled, laminated, etc.

### **Important notice:**

Before installing ceramic tiles, mineral plasters, screeds or coatings, it is necessary to penetrate the substrate with suitable impregnations, e.g. Duvilax VV or similar materials. Cut edges, as is the case with wooden materials, are recommended to be treated with paint, especially in the case of exterior use. It is ideal to choose the layout so that the boards are kept dry in the external environment. In the event of dampness of the boards, it must be possible for them to dry out subsequently.

### **Storage and transport:**

On base pallets, dry and protected from the effects of the external environment, 12 months from the date of manufacture. The production date is displayed on the product's nameplate.

Pallets of boards always stack horizontally on a flat surface. During transport and storage protect the boards from direct exposure to water. Especially, protect the edges from rain or accidental soaking. Store the boards so that they fit exactly on top of each other. During any manipulation, it is necessary to avoid damaging the surface and especially the edges.

- Improper storage and poor handling can lead to damaging of the boards.

### **Safety instructions:**

While handling the boards, follow all safety and technological rules. The product is in no way irritating or dangerous, to humans. Use common protective equipment such as gloves and goggles.

### **Instructions for disposal of waste material:**

We are happy to take the unprocessed material back, as all the waste from our boards is recyclable again and we put it back into our production process. Do not hesitate to contact us for more information.

*Working conditions and the scope of use of products may vary. The technical data sheet provides general instructions for the processing of the material. The processor is obliged to test the suitability and possibility of using the product for its intended purpose. In the case of requirements beyond the general instructions, it is necessary to request the advice of the manufacturer, which is provided at the request of the buyer as part of the customer service and is governed by the applicable general terms and conditions of the seller. The seller is not liable for damage if the buyer deviates from the technical conditions, storage conditions, manufacturer's instructions and periods of their usefulness during the application and incorporation of the products. Up-to-date information about the company's products, as well as general terms and conditions, are available at [www.packwall.cz](http://www.packwall.cz).*