

## EXAMPLES FROM PRACTICE



Flexibau, s.r.o., Na Poříčí 1079/3a  
110 00 Praha 1 - Nové Město  
Tel.: +420 225 391 300, Mob.: +420 724 929 498  
Email: info@flexibau.cz, www.packwall.cz



IT IS EASY TO CUT WITH  
A HAND SAW OR  
CIRCULAR SAW



DRILLING IS  
EQUALLY EASY



YET THE BOARD  
IS SUFFICIENTLY SOFT  
AND STRONG  
FOR SCREWING



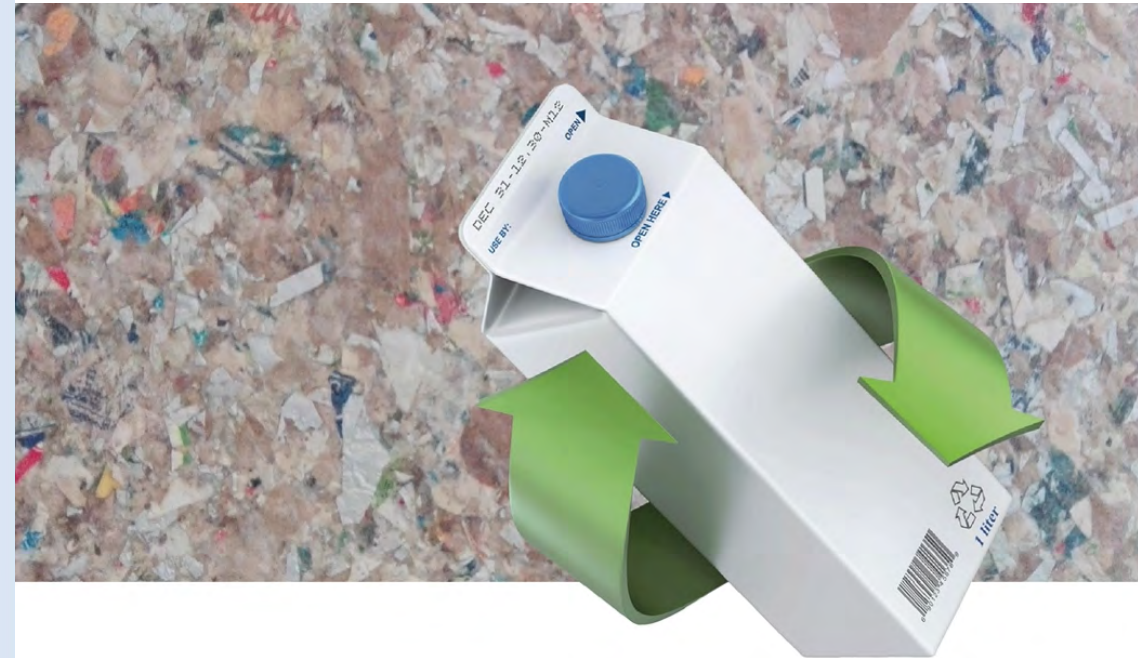
PLASTER OR  
ALUMINIUM COAT,  
THE PACKWALL BOARD  
IS READY FOR ANY  
TREATMENT



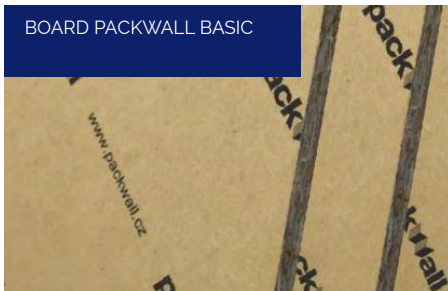
YOU WILL ENJOY USING  
A NAILGUN

# FIRST-CLASS BOARD FROM THE BEVERAGE CARTONS

STRUCTURAL AND FURNITURE BOARDS  
MADE OF RECYCLED RAW MATERIAL



**pack**  **Wall**



The beginning of the whole process lies in the collection of beverage cartons with the lowest content of things that have been mistakenly put in the orange containers for sorted waste – glass, wood, metal, etc. beverage cartons are subsequently crushed, dried, moulded under high temperature into the boards and cut into appropriate formats. The boards are basically a composite composed of cellulose, polyethylene and aluminium (all components of food cartons) enclosed between two paper surfaces.

The basic product is the **PackWall Basic board** that can be customized and used in various ways. For instance, in civil engineering for building perimeter walls, ceilings, partitions, floors, vaults, false ceilings, construction enclosures or formworks. For the interior, the boards can be veneered laminated, painted, etc.

The original look offers modification, and the **PackWall Design** board has a transparent top layer (see photo) that exposes the composition of the board made of the original raw material. PackWall boards in sustainable civil engineering serve as full alternatives of wood-fiber and gypsum board elements of the dry construction method. Or in the furniture industry as a replacement of classic OSB, MDF or HDF boards.



**1. USED BEVERAGE CARTONS WHICH WOULD BE OTHERWISE BURNT**



**2. BEVERAGE CARTONS ARE CRUSHED AND MOULDED UNDER HIGH TEMPERATURES INTO THE BOARDS OF VARIOUS DIMENSIONS**



**3. THE RESULT IS EITHER A BOARD ITSELF OR ITS REFINED SURFACE (WITH A PAINT COAT, TILES, PLASTER...)**



**4. WITH PACKWALL YOU CAN BUILD A HOUSE OR CREATE A FINE INTERIORS**

## VLASTNOSTI

<b>Water absorption</b>	Half less absorption than wood based boards
<b>Mechanical resistance</b>	No corners and edges are damaged during handling. Pictures, shelves or even whole kitchen units can be easily attached to the boards – resistance to screws yanking out is tested to 55 kg per screw at a 10 mm thick board, and 82 kg at a 15 mm thick board.
<b>Noise reduction</b>	Thanks to its strong build the board ensures considerable noise attenuation.
<b>Thermal insulation</b>	Aluminium particles contained within the raw material return part of the radiant heat back into the room, and the high cellulose content gives the board thermal insulating parameters of the wood.
<b>Pace of construction</b>	Thanks to the board are of 3 m <sup>2</sup> (1,250 mm x 2,500 mm), the perimeter structure of a family house can be built within a few days and the whole house up to 2 months.
<b>Hygienic harmlessness</b>	The boards do not release any volatile substances (measured by the National Institute of Health of the Czech Republic), and the effect of high production temperature eliminates possible germs and microorganisms.
<b>Ecology</b>	The material is environmentally friendly, created by recycling laminated food packages, and can be reprocessed (re-fabricated)
<b>Flexibility</b>	Flexible by heat up to a diameter D = 1,400 mm.

## PRODUCT MODIFICATIONS AND DIMENSIONS

		Dimension [mm]		Thickness [mm]							
		1250 x 2500	625 x 2500								
								8	12	15	18
<b>PACKWALL BASIC</b> standard board	Straight edge	☐		●	●	●	●	●	●	●	
	Grooved edge for insertion of fasteners	☐		●	●	●	●	●	●	●	
	Rounded edge for puttying*	☐		○	○	○	○				
	Overlapping „Z” edge	☐		●	●	●	●	●	●	●	
<b>PACKWALL DESIGN*</b> Obverse - parchment paper	Straight edge	☐		●	●	●	●	●	●	●	
	Grooved edge for insertion of fasteners	☐		○	○	○	○	○	○	○	
	Overlapping „Z” edge	☐		○	○	○	○	○	○	○	
<b>PACKWALL DESIGN PANEL**</b> Obverse - parchment paper	Straight edge	☐		●	●	●	●	●	●	●	
	Grooved edge for insertion of fasteners	☐		○	○	○	○	○	○	○	
	Overlapping „Z” edge	☐		○	○	○	○	○	○	○	

○ On order ● In Stock

\*Both edges with a length of 2 500 mm

\*\*TRUCK PURCHASES ALWAYS CONSULT WITH OUR CUSTOMER SERVICE.