

Unique identification code of the product-type:

Recoma PackWall (SE2022/01)

Intended use/es:

Boards made from recycled beverage cartons for use in construction

Manufacturer:

RECOMA AB, Norra Kringelvägen 13, 281 41 Hässleholm, Sweden

Authorized representative:

Max Rosenberg

System/s of AVCP:

System 3

European Assessment Document:

EAD 210138-00-0504:2022

European Technical Assessment:

ETA 21/0912 of 10/10/2022

Technical Assessment Body:

Technical and Test Institute for Constructions Prague

Declared performance/s:

Essential characteristics: all types boards Recoma PackWall (if not stated otherwise):

Essential characteristic and method of verification and assessment	Expression of product performance	
Basic Works Requirement 1: Mechanical resistance and stability		
Modulus of elasticity in bending E_m (Cl.2.2.1 of EAD 210138-00-0504)	$\geq 488 \text{ N/mm}^2$	
Bending strength f_m (Cl.2.2.2 of EAD 210138-00-0504)	$\geq 4,43 \text{ N/mm}^2$	
Basic Works Requirement 2: Safety in case of fire		
Reaction to fire (Cl.2.2.9 of EAD 210138-00-0504)	Thickness $\geq 18 \text{ mm}$, density $\geq 900\text{kg/m}^3$ type Basic both sides ; type Design only from the side of paper skin 205 g/m^3 Other thicknesses, all types, density ≥ 860 kg/m^3	Class D – s1, d1 Class E
Propensity to undergo continuous smouldering (Cl.2.2.10 of EAD 210138-00-0504)	All thicknesses and types, density ≥ 900 kg/m^3	The product does not show propensity to undergo continuous smouldering
Basic Works Requirement 3: Hygiene, health and the environment		
Vapour permeability μ (Cl.2.2.11 of EAD 210138-00-0504)	RECOMA PackWall Basic	482
	RECOMA PackWall Design	1977

Basic Works Requirement 4: Safety and accessibility in use

Tensile strength perpendicular to faces $f_{t,\perp}$ (Cl.2.2.13 of EAD 210138-00-0504)	$\geq 0,033 \text{ N/mm}^2$
Pull through resistance of fasteners f_{head} (countersunk-head screws of effective diameter d_h of the head of 8 mm) (Cl.2.2.14 of EAD 210138-00-0504)	$\geq 12,71 \text{ N/mm}^2$
Indentation hardness by means of a durometer Shore D (Shore hardness) (Cl.2.2.15 of EAD 210138-00-0504)	56,2
Durability – swelling in thickness after immersion in water G_t (Cl.2.2.16 of EAD 210138-00-0504)	Thickness 18 mm $\leq 38,3 \%$
	Other thicknesses $\leq 33,9 \%$
Durability – moisture resistance - residual tensile strength perpendicular to faces $f_{t,\perp, \text{res}}$ - residual swelling in thickness after immersion in water $G_{t, \text{res}}$ (Cl.2.2.17 of EAD 210138-00-0504)	$\geq 0,024 \text{ N/mm}^2$
	$\leq 6,7 \%$


Basic Works Requirement 5: Protection against noise

Airborne sound insulation $R_w(C;C_{tr})$ (Cl.2.2.19 of EAD 210138-00-0504)	Thickness $\geq 12 \text{ mm}$, density $\geq 900 \text{ kg/m}^3$, paper skin $\geq 205 \text{ g/m}^3$	$\geq 34 (-1,6; -4,5) \text{ dB}$
Thermal conductivity λ (Cl.2.2.21 of EAD 210138-00-0504)	$\leq 0,157 \text{ W/(m}\cdot\text{K)}$	

The performance of the product identified above is in conformity with the set of declared performance/s.

This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Max Rosenberg
CEO, Recoma AB