

Greener building materials with advanced technology and function.

Product

Think new & innovative. Build responsibly & economically.

Wekla HPL (High Pressed Laminate) is a fireproof GreenEcoboard with a finished surface. A multi-board with a special composition of mainly environmental material magnesium which is completely recyclable. Fits perfectly indoor floor, wall and ceiling.



Signification

- ~ Lower installation & material costs
- ~ Faster & healthier handling
- ~ Better logistics, less waste
- ~ Economical total solution
- ~ Non-combustible board with fireproof surface

Simply put, you save time and money, while providing a proven quality product that replace 2-3 usual traditional boards, and a greener environment product.



- Fireproof A1, EI60
- Sound absorbing
- Rigid
- Water and moisture resistant
- Mildew Resistant
- Resistant to temperature changes
- Easy to clean
- Work environment-friendly
- Impact and shock resistant
- Withstands 80 kg in pull-out force
- Retains its functionality even in the amount of moisture
- Lightweight - weighs and processed as a normal plasterboard
- 1 board replace 2-3 conventional building boards
- Lots of colors and patterns



✓ Moisture proof



✓ Fireproof



✓ Rigid



✓ Sound absorbing

Characteristics

Wekla HPL is a special composition of mainly environmental material magnesium and is completely recyclable. The production process is quality assured with the CE marking for the product. The board has a finished surface, which is available in lots of different designs and colors. Basic board is reinforced with work environment friendly fiberglass on both sides for maximum strength, impact resistance and durability. Good form stability even at varied temperatures and moisture stress. Mold resistant and no risk of cardboard mold. Fireproof.

Eco

Recyclable. It has received the highest rating in SundaHus environmental data and releases the production out 50 % less greenhouse gases compared to conventional cement based products. Contains no formaldehyde, heavy metals or other harmful substances. No harmful gases or fumes at

Quality control

- ✎ *Qualified staff that monitors the production and delivery of each unit.*
- ✎ *Well-documented quality control*
- ✎ *Selected factories with quality control*
- ✎ *Each board/pallet marked for tracking*
- ✎ *Well packaged and packaged supplies*



Utilities

● Fire protection

Fire Rated and approved to EI60 fire class A1, making it virtually fireproof. 1 layer replaces three layers of plasterboard. Ideal for all areas with high requirements for fire safety with fire separation, where it is simultaneously desirable to have a finished surface finish.

● Wall

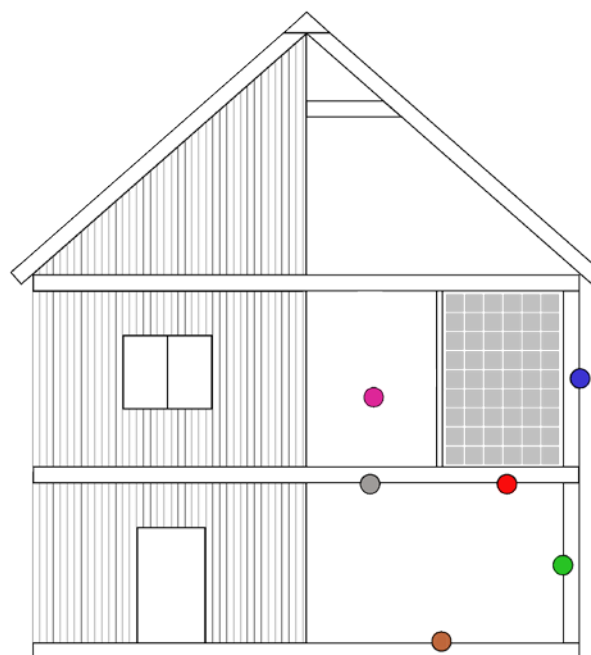
Wekla HPL are ideal for all types of walls. Thanks to its form stable characteristics it can replace the commonly used two-layer construction (plaster + OSBboard) with only one layer. Moreover, it is ideal for easy and sturdy attachment. Instead of specific plugs, molly, etc. it is sufficient a single wood screw. 50-80 kg in pull-out force.

● Floor

Wekla HPL is also in the specific floor models. Its dimensional stability and impact resistance in combination with sound and moisture properties make it suitable as a floor covering in areas with hard sub floors instead of plasterboard, chipboard, etc. Mold Safely blind bottom board.

● Ceilings

Available as both laminated and perforated ceiling board and also complete ceiling system with soundproofing up to 47 dB. Laminated & flame retardant makes it ideal as an installation ceilings in eg offices, shopping centers, hospitals, factories, schools and other public environments with high demands on design, fire safety, sound insulation and function.



● Decor board

Is ideal for carpentry work. With its superior properties in terms of fire protection, moisture resistance, design, shape stability, etc., there are several very innovative and economic solutions sandwich to further develop the insulation, framing system mm.

● Sandwich elements

With these superior properties in terms of fire protection, moisture resistance, design, shape stability, etc., there are several very innovative and economic solutions sandwich to further develop the insulation, framing system mm.

Technical data for Wekla HPL				
Criterion	Norm	Value	Unit	Explanation
Density:		Ca 950	kg/m ³	The material's bulk density, that is, its weight in relation to its volume.
Classification of fire resistance:	EN 13501-1:2007	EI 60		A wall structure consisting of boards, studs and insulation managed to prevent the fire spreading over more than 60 minutes in the SP test.
	GB8624	A1		Fire Class A1 means acc. ISO 1716 that the product is not significantly will contribute to fire development, regardless of its use.
Noise reduction:	EN ISO 140-3	R _w = 29	dB	Weighted reduction index, R _w = 29 dB when tested with a 12 mm board in the frequency band 100-3150 Hz. Spectrum adaptation term, CSO 3150 when the current test, is at -6 dB.
Flexural strength:	EN 12467:2012	8 mm board: 7,3	MPa	Strength values at ultimate load for different panel thicknesses.
		10 mm board: 7,7	MPa	
		12 mm board: 7,8	MPa	
Elasticity module:	SS EN326-1	Longitudinal direction: 3,13	GPa	The elastic modulus is a material constant whose value is determined by lab tests. The modulus is the relationship between pressure and deformation.
		Cross Direction: 3,52	GPa	
Impact resistance:	EN 14517-9:2005	8 mm board: 6,2	kJ/m ²	Impact resistance is a material or a structure's ability to withstand impact and shock.
		10 mm board: 5,7	kJ/m ²	
		12 mm board: 7,5	kJ/m ²	
Adhesion:		1,17	MPa	Ability to adhere to other substances, such as plaster and primer. The value 1.17 MPa measured in compatibility testing.
Cross Direction: 3,520	EN318	(RF = 65-85%)		Height Changes of a disc (10 × 2500 × 900 mm) at different relative humidity.
		Longitudinal direction: +0,02	%	
		Cross Direction: +0,02	%	

Technical data for Wekla HPL

Criterion	Norm	Value	Unit	Explanation
Weight change:	EN 318	RF: 5,3 at 65-85 %	%	Weight changes of a standard board at different relative humidity.
Moisture content:	EN 318	RF: ca 20,5 at 85 % RF: ca 14,5 at 65 % RF: ca 12,3 at 30 %	% %	Moisture content of a standard board at different relative humidity.
Water vapor permeability, δ :	EN ISO 12572:2001	Ca $1,8 \cdot 10^{-6}$	m ² /s	Water vapor permeability of the material is measured in m ² steam entering through per second.
Vapor-time resistance, Z:	EN ISO 12572:2001	Ca $7,2 \cdot 10^3$	s/m	Water vapor Z is the specific board resistance to water vapor passage. The value depends on the specific board thickness ($Z = d / \delta$).
Vapor-time resistance, Sd:	EN ISO 12572:2001	Ca 0,19	m	Water vapor Sd can be described as "the thickness of the layer of stagnant air having the same water vapor resistance as the material."
Air permeability:	EN12114	0,02	m ³ /m ² /h	The air volume (m ³) admitted through a unit area (m ²) of material per unit time (hr).
Thermal conductivity, λ :	EN 12667:2001	0,152	W/mK	Thermal conductivity describes the total heat transfer through the material. The lower the lambda value, the better insulating ability of the material.
Screw gripping force:		80 kg (about 784 N) at 12 mm thick board. 50 kg (490 N) at 8 mm thick board		The following excerpts were measured in the test with Aerfast Combi screw 10009; 3.9 × 30 mm.

Dimension:	Thickness:	Width:	Height:
Standard	6,5 mm	1200 mm	2500/2700 mm
Standard	8;5 mm	900 mm	2500/2700 mm
Standard	10,5 mm	900 mm	2500/2700 mm
Maximum dimensions	2-20 mm	1250 mm	3050 mm

Melamine thickness is 05 -1.0 mm depending on thickness.

The measuring tolerance is H = $\pm 1,5$ mm, W = $\pm 1,5$ mm and T = $\pm 0,3$ mm

Boards max dimension: W=1220 H = 3050 mm, special sizes as required.

Application

After separate instructions.

Terms and Conditions

Delivery and payment takes place according ABM 07. General provisions on the supply of construction materials.

See Wekla general terms of delivery for a full documentation.

All displayed colors and shades of product samples and marketing material are indicative only, and describes the material's average character. Wekla reserves for any color and color differences between samples, pictures and final products delivered.

A Responsible professional contractor is primarily responsible for the overall design, its input material composition, performance and other factors.

The product range of designs, technical data, guidelines and the like may be changed without notice.

All values are to be considered approximate.

