

Greener building materials with advanced technology and function.

Product

Think new & innovative. Build responsibly & economically.

Green Ecoboard is not just a new product - it's a whole new way of building with a proven international technology! A multi-board with a special composition of mainly environment magnesium material that is completely recyclable. Fits perfectly both outdoors and indoors in floor, wall and ceiling.



GreenEcoboard



Signification

- ↻ Lower installation & material costs
- ↻ Faster & healthier handling
- ↻ Better logistics, less waste
- ↻ Economical total solution

Simply put, you save time and money, while providing a stable quality board 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
- 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



Moisture proof



Fireproof



Rigid



Sound absorbing

Characteristics

GreenEcoboard is a special composition mainly of environmental material magnesium and is completely recyclable. The production process is quality assured by the CE marking for the product. The front side has a smooth ivory surface suitable for coating, the back a raggidsida for best adhesion. Green Ecoboard is enhanced with the working environment friendly glass on both sides for maximum strength, impact resistance and durability. Good form stability even at varied temperatures and moisture stress. Mildew-resistant and no risk of cardboard mold. Fireproof.

Eco

Recyclable. It has received the highest rating in SundaHus environmental data. Much less energy consumption during manufacture and emit 50 % less greenhouse gases compared to conventional cement based products.

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

1 - Stom cladding outside

Wind deflector plate

Good stability and high strength values.

High moisture resistance, an air/windproof construction where air currents are avoided.

Fireproof A1.

Very low weight and easier processing than other commercially available boards.

Characteristics that make it ideal as a safe and user part of the active building envelope where the underlying structure is protected in a secure and cost effective manner.

Plastering carriers

Works as plaster base in ventilated constructions. Use flexible grout according to the respective plaster provider's instructions. Shaggy side for adhesion, priming is recommended.

Garbage rooms

Moisture resistant, impact resistant and fire-rated.

Socket cladding

Resistant to frost, mildew safe, paintable with silicate.

2 - Utility room

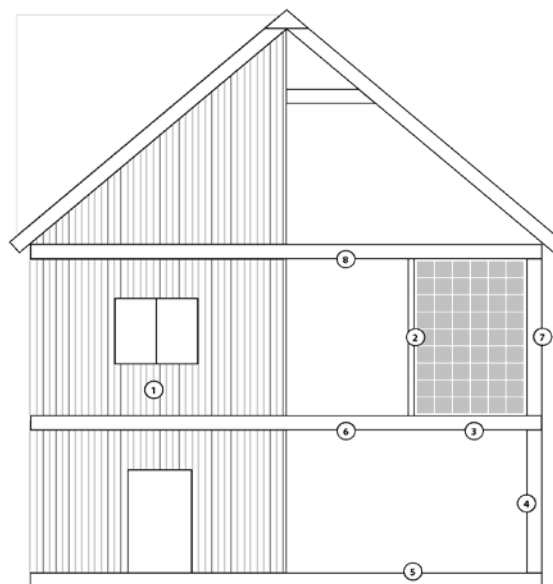
Approved in 1 layer of 12 mm board of both BKR and GVK to the latest industry requirements. Also suitable as wall and ceiling panel in areas with intense moisture load: sauna, shower rooms, swimming pools and industrial buildings. Green ecoboard has a absorbing effect and has a stapling time of 15-20 minutes. Adhesion and tensile strength are tested to 1.17 MPa, which is almost 6 times more than the requirement of 0.2 MPa.

3 - Fire protection

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 and fire pits, parking garages, etc.

4 - Wall

Green Ecoboard is ideal for all types of walls. Thanks to its form stable characteristics, it can replace the commonly used two-layer construction (plaster + OSB board) 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.



5 - Floor

Green Ecoboards dimensional stability and impact resistance in combination with insulating and moisture characteristics make it ideally suited for the floor instead of plasterboard, chipboard, etc. as well as mold assured blind bottom board.

6 - Ceiling

Available as both laminated and perforated innetaksskiva and also complete ceiling system with soundproofing up to 47 dB. PVC laminated and flame-retardant makes it perfect as installation ceiling in eg offices, shopping centers, hospitals, factories, schools and other public environments with high demands on design, fire resistance, sound insulation and function.

7 - Sandwich elements

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, etc.

Product Facts Green Ecoboard				
Criterion	Norm	Value	Unit	Explanation
Density:	EN 12467, 5.4.2	1002	kg/m ³	The material's bulk density, that is, its weight in relation to its volume.
Classification of fire resistance:	EN 13501 EN 12467, 5.6.1 EN 13501-1	EI 60 A1 A1 _{fl}		A wall construction consisting of boards, joists and insulation managed to prevent the fire spreading over more than 60 minutes in the SP test. Fire Class A1 means acc. ISO 1716 that the product is not appreciably will contribute to the fire development, regardless of its use.
Noise reduction:	EN ISO 140-3	R _w = 29	dB	Weighted reduction index, R _w = 29 dB when testing with 12 mm board in the frequency band 100-3150 Hz. Spectrum adaptation term, CSO 3150 when the current test, is at -6 dB.
Bending strength: Flex Modulus	EN 12467, 5.4.4	16,5 4392	N/mm ²	The maximum stress a material can take. The elastic modulus measured at a bending strength test
Impact Resistance:	EN 14517- 9:2005	7,5	kJ/m ²	Impact resistance is a material or a structure's ability to withstand shock.
Adhesion Strength	EATG 016 Part1, C3	Tensile strength 1,7 Tensile Modulus 20,4	MPa	Ability to adhere to other substances such as plaster and primer.
Freeze-Thaw resistance 100 cycles	EN 12467, 5.5.2	0,26	R _L	Freeze / thaw repeatedly without losing properties.
Moisture (Heat & rain test) 50 cycles	EN 12467, 5.5.3	No cracking and delamination, bending observed.		
Water vapor	EN 12467, 5.4.6 EN 12572	0,240 / 0,33	m	Spreading water vapor
		19,180 / 18,437	μ [.]	Resistance factor of water vapor

Product Facts Green Eco board

Criterion	Norm	Value	Unit	Explanation
Heavy metals	CEN/TS 16637-1	Sb <5, As <1, Ba <5, Cd <0,2, Cr <5, Pb <1, Hg <0,01, Se <5		
Water resistance	EN 12467, 5.5.4	0,28	R _L	The board's ability to resist water at certain pressure
Water absorption / drying - 50 cycles	EN 12467, 5.5.5	0,36	R _L	
Air Permeability:	EN 12114	0,02	m ³ /m ² /h	The air volume (m3) released through a unit area (m2) 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 the insulating property of the material.
Screw Gripping force:		80 kg (approximately 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 Combination screw 10009; 3.9 × 30 mm.

Dimension:	Thickness:	Width:	Length:
Standard	8 mm	1200 mm	2500/2700 mm
Standard	10 mm	900 mm	2500/2700 mm
Standard	12 mm	900 mm	2500/2700 mm
Max dimension	2-20 mm	1250 mm	3050 mm
The measuring tolerance is L = ± 1,5 mm, W = ± 1,5 mm and T = ± 0,3 mm			
The boards max dimension: W=1220 L = 3050 mm, special sizes as required.			
Thickness/Boards	No of boards / pallet	Weight	
8 mm	75 st	1200x2500mm: ca.1850 kg	
10 mm	60 st	900x2500 mm: ca.1450 kg	
12 mm	50 st	900x2500 mm: ca.1450 kg	



Application

Fixing

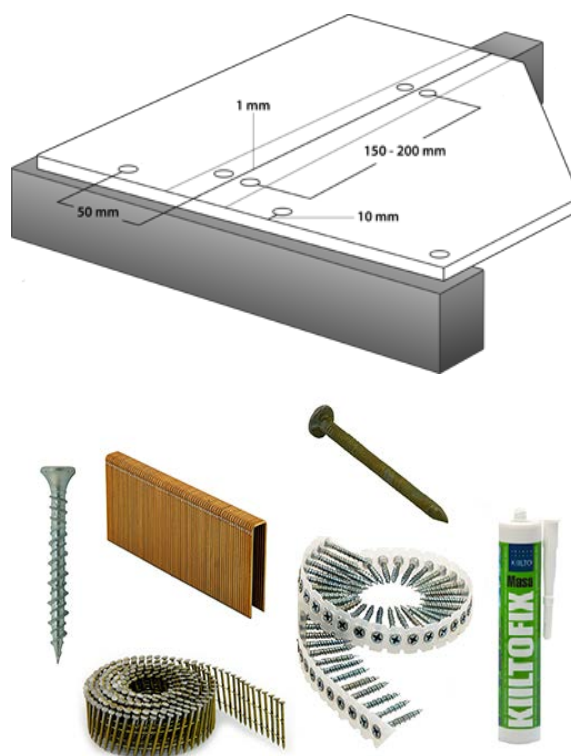
Fixing is best done with hard plaster screws, nails or staples. The board should be completely dry when installing, and the boards fitted with at least 1 mm distance between each other. C/C distance between the board edge-screw should be at least 8-10 mm.

Screw – Hard Drywall screws, collated or loose. Aerfast Duraspin 39T30MC - 30.9x 30 mm which can be used for wood and steel stud or equivalent screws. Alternatively Grabber List/Floor Screw PTX28ZK - 4,0x28 mm. Use another screw must be countersunk head and grooves underneath, regular drywall screw can cause the disc phrase itself.

Nails – AerfastRB3221VR - 32x2.1 mm VFZ Call Lim, galvanized Wire Collated 2.1 or equivalent nail.

Staple – Aerfast AS30012 - 45 mm Staple Efz, SH tree dimensions 1.4x1.55 or equivalent staples.

Adhesive – For adhesive attachment recommended Kiiltofix Masa or equivalent adhesive.



Processing

Green Eco Board can easily be cut and cracked with drywall knife, or cut using common hand tools as such handsaw or jigsaw. Its very low weight is less than regular plaster board. Board exposure values for dust and fibers and that it is non-toxic also promotes a good working environment.

Utility Room

For tiles bearing boards, use the board thickness of 12 mm on the rule distance c / c 450 mm. At higher rule distance, used preferably 2 layers. The board has good adhesive properties and should be completely dry when installing. It is mildew resistant and not based on organic materials. Priming is recommended.

Finishing

Green Eco Board is also suitable for painting and plaster finishes. Plaster applied to the shaggy side for best adhesion. Priming is recommended. When used in humid environments and for outdoor use should the board be provided with impregnation to reduce moisture absorption. Note that the board is absorbing.

Storage

Green Eco Board must be stored dry, hot and flat in their original packaging.

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.

