

Greener building materials with advanced technology and function.

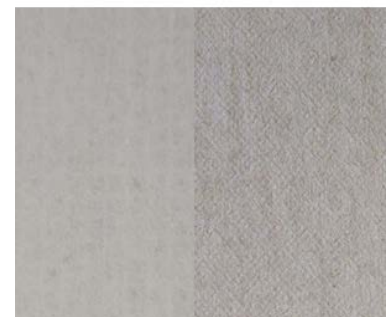
Aquastone

A light board with stable characteristics.

Aquastone is a further development of the proven Green Ecoboard. A new multi-board with lower weight, easier handling, stable shape characteristics and more moisture resistant. A special composition of eco materials magnesium, sulfate, silicate and EPS. Fully recyclable. Fits perfectly both outdoors and indoors in floor, wall and ceiling.



Wekla Aquastone



Signification

- Lighter and more stable
- Lower installation & material costs
- Faster & healthier handling
- Now, with bevelled edges

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.

- Work environment-friendly
- Impact and shock resistant
- Capable of 70 kg in pull-out force
- Retains its functionality even in the amount of moisture
- Very low weight - weighs less and processed as an ordinary plasterboard
- 1 board replace 2-3 conventional building boards
- Fireproof A1
- Rigid
- Water - and moisture proof
- Mildew resistant
- Resistant to temperature changes



Moisture proof



Fireproof



Rigid



Low weight

Characteristics

The production process is quality assured with the CE marking for the product. The front side has a smooth industrial gray-blue surface suitable for coating, the back a ragged page for the best adhesion. Aqua Stone is enhanced with the working environment friendly glass on both sides for maximum strength, impact resistance and durability. Dimensional stability even at varied temperatures and moisture stress. Mold resistant and no risk of cardboard mold. Fireproof.

Eco

Aqua Stone is a reusable, environmentally board. Consists mainly of environmental materials magnesium, sulfate, silicate and EPS. Much less energy consumption during manufacture and emit 50 % less greenhouse gases compared to conventional cement based products. The board is environmentally assessed with the best results of SundaHus.

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

Moisture insensitive - protection against rain and wind.
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

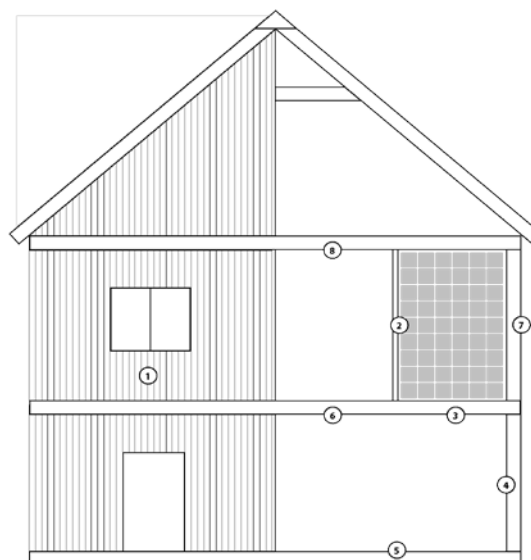
Approved in 1 layer of 12 mm board of both BKR and GVK to the latest industry requirements. Also suitable as wall and ceiling panel in areas with intense moisture load: sauna, shower rooms, swimming pools and industrial buildings. Aquastone is partially priming and has a stapling time of 15-20 minutes.

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

Aqua Stone 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. 40 -70 kg in pull-out force. Also available with a trowel edge



5 - Floor

Aqua Stones 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 - 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.

Technical data for Aquastone				
Criterion	Norm	Value	Unit	Explanation
Density:	EN12467:2012	Ca 600	Kg/m ³	The material's bulk density, that is, its weight in relation to its volume.
Thermal conductivity, λ :		Ca 0,2	W/mK	Thermal conductivity describes the total heat transfer through the material. The lower the lambda value, the better insulating ability of the material.
pH value:		Ca 7-8	pH	pH determines the acidic (low pH) or basic (high pH) a material is on a scale of 1 - 14.
Fire:	EN13501-1	A1		Fire Class A1 means acc. ISO 1716 that the product not significantly will contribute to fire development, regardless of its use.
Moisture movements:	EN12467:2012	$\leq 0,12$	%	
Moisture content:		≤ 12	%	
Flexural strength:	EN12467:2012	Transversal direction: Ca 10,3 Longitudinal direction: Ca 8,5	MPa MPa	Results of the three-point test. Simply supported board tested with the centrally positioned line load until failure occurs within 10-30 seconds.
Water permeability:		No water permeability or water flow through the material.		Results of the test: No drop formation on the back after 24 hours of exposure to water on the test front of the body.
Permanent linear shrinkage:		< 0,4	%	
Maximum service temperature:		Ca 1200	°C	
Thermal properties:	EN12467:2012	Deformation resistant to temperature changes after freezing-thawing. Function Static lapped in warm environments with high humidity in the air.		Handles 100 cycles of repeated freezing (about -20 °C) and thawing (about 20 °C) without material disruption. No malfunctions after 50 repeated cycles of spraying water and heat radiation.

Technical data for Aquastone				
Criterion	Norm	Value	Unit	Explanation
Moisture properties:	EN12467: 2012	Deformation resistance during soaking. Deformation resistance during dehydration.		Test specimens of Aqua Stone retains acceptable strength values after 50 repeated cycles of complete saturation and complete dehydration.
Chemicals:	EN12467: 2012	No dangerous chemicals.		The board contains no toxic ingredients and are free from asbestos, ammonia and formaldehyde.
Screw gripping force:		35 kg (343.23 N) at 10 mm thick board. 40 kg (392,26 N) at 12 mm thick board.		The following excerpts were measured in the test with Aerfast Combi Screw 10009, 3.9 × 30 mm.
Elasticity modulus:		Along the board: Ca 3,8 Across the board: Ca 5,6	GPa GPa	The elastic modulus is a material constant whose value is determined by lab tests. The modulus is the relationship between pressure and deformation.

Dimension:	Thickness:	Width:	Height:
Standard	8 mm	1200 mm	2500/2700 mm
Standard/bevelled edge	10 mm	900 mm	2500/2700 mm
Standard/bevelled edge	12 mm	900 mm	2500/2700 mm
Maximum dimensions	2-20 mm	1250 mm	3050 mm

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

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

Thickness/board	No of boards/pallet	Weight
8 mm	75 boards	1200x2500mm: ca.1250 kg
10 mm	60 boards	900x2500 mm: ca.1050 kg
12 mm	50 boards	900x2500 mm: ca.1050 kg



Application

Fixing

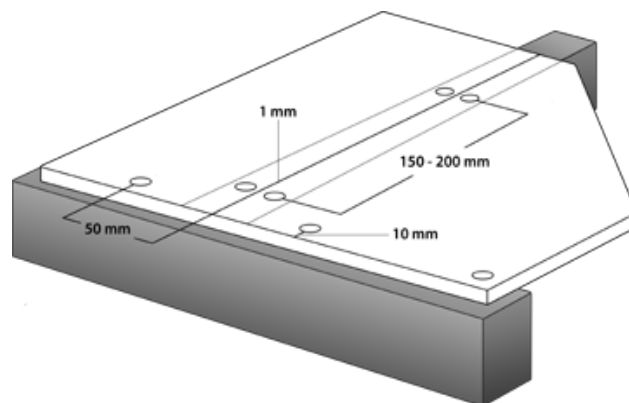
Fixing is best done with hard plaster screws, nails or staples. The board should be completely dry when installing, and the boards fitted with at least 1 mm distance between each other. C/C distance between the board edge-screw should be at least 8-10 mm.

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

Aquastone 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 12 mm Joist spacing c/c 600 mm. At higher joist spacing, are 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

Aquastone is also suitable for painting and plaster finishes. Stucco applied to the shaggy side for optimal adhesion. Use flexible grout for best results. When painting can be both water and oil-based paint used in each paint supplier's instructions. The design shall be ventilated.

Storage

Aquastone 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.

