

MAGOXX® Board

safe, smart and sustainable

Processing instructions floor



General information

MAGOXX® board is the ideal product for constructing a floor. The boards are fire-resistant, impact resistant, light weight, highly insulating and suitable for every finishing. Even moist and water won't damage magoxx boards, and fungus and insects don't stand a chance. MAGOXX® is easy to handle and to apply on wood and steel constructions. When processing MAGOXX® boards, always use by-products from a high-quality supplier. As a processor you can choose between different applications, like a system floor, a floor structure with infra-red foil and a structure with floor heating. MAGOXX® board is incombustible (class A1). When correctly applied, a 9mm board can easily offer a fire resistance of more than 60 minutes (conform EN 1364-1:2015). With this builders meet the most strict fire safety requirements.

Safety



Eyes: Use safety goggles/glasses that offer dust protection during cutting/drilling activities.



Inhalation: If machines and work practices are ineffective in controlling dust emissions, wear suitable, approved personal protective equipment, i.e. a mask with dust filter type P2 (for fine dust). Filters have an expiry date and may need to be replaced. Read the information provided by the supplier.



Skin: Wear a long sleeved shirt, long trousers, a cap and gloves to make sure dust and debris do not come in contact with the skin.

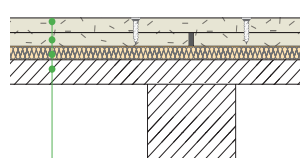
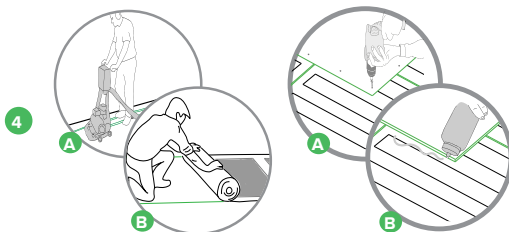
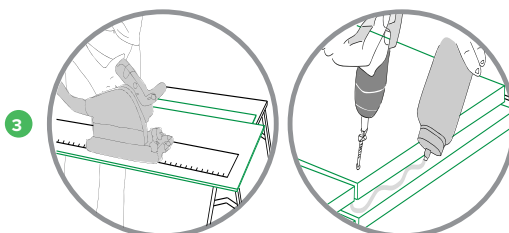
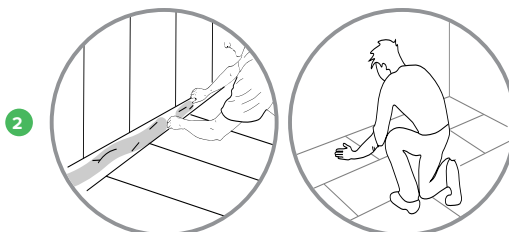
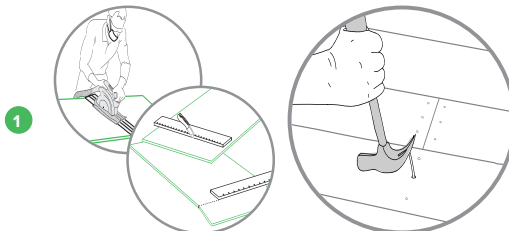


Workplace: Dust will be released when cutting/sawing the MAGOXX® board. Inhaling excessive dust for longer periods could cause irritation or health issues.



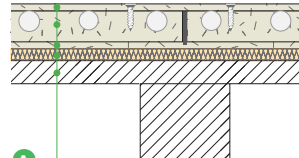
Waste: Dispose of waste in accordance with local regulations and conditions for normal waste. MAGOXX® boards do not contain asbestos. Please see our mMaterial Safety & Data Sheet for extensive waste disposal advice.

Method



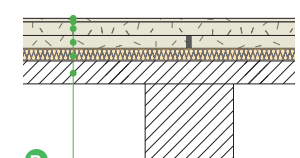
12 mm MAGOXX® Board
12 mm MAGOXX® Board
10 mm cork or felt
18 mm floor wood

Ceiling layer: See manual ceiling



6 mm MAGOXX® Board
18 mm MAGOXX® Board with heating pipes
6 mm MAGOXX® Board
10 mm cork or felt
18 mm floor wood

Ceiling layer: See manual ceiling



4 mm MAGOXX® Board IR-foil
2 x 12 mm MAGOXX® Board
10 mm cork or felt
18 mm floor wood

Ceiling layer: See manual ceiling

MAGOXX® boards can be easily cut and sawed by hand. We advise, when deciding to work with a circular saw, to use the BOSCH 2608644121 circular saw blade Expert Fiber Cement with 4 saw teeth. When working with regular diamond saw blades, - with a diameter of 350mm and 54 to 80 saw teeth – a rPM of 3000 is ideal.

Place a fender along the walls to reduce contact sound. To guarantee a well insulating floor and to create an even surface, use cork or felt as an underlayment floor. Use one of these two materials over the entire floor surface.

Saw the MAGOXX® boards into the right size. Make use of a circular saw, handsaw or stanley knife. See step 1. The first two layers of MAGOXX® boards should both be glued and screwed onto each other. We recommend using a PU-glue for stone-like material. See our by-products on the next page for the correct screws.

Follow step 4a if you are placing floorheating, and step 4b when placing the infra-red foil. Mill the grooves for the floor heating into the top layer of the MAGOXX® board. Secure the following layer with screws. Place the infra-red foil on top of the lower layers and secure the top layer with PU-glue only. As a possible last step the floor can be equalized with a cement-bound leveling agent. Study the technical drawings of the floor structures below, before you start processing.

Required tools



Protection



Circular saw



Knife



Hand saw



Hand drill



Screws



Drilling machine



Painting tools



Plastering tools

SINH Building Solutions B.V.
Caballero Fabriek Unit 68
Saturnusstraat 60
2516 AH The Hague
The Netherlands

T: +31 (0) 88 3748400
info@magoxx.com
www.magoxx.com

MAGOXX® Board is a product of

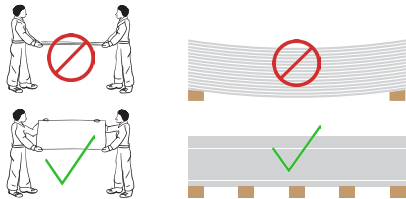


MAGOXX[®] Board

safe, smart and sustainable
Processing instructions floor

Transport and storage

Pallets should be stored on a flat surface, in a dry, covered, frost-proof and well ventilated area. Products should preferably be covered during transport. Care should be taken when handling heavy boards. The boards are non load bearing.



Health

MAGOXX[®] Board contains the following substances:

- Magnesium oxide - MgO
- Magnesium chloride - MgCl₂
- Magnesium sulfate - MgSO₄
- Fiberglass mesh
- Sawdust
- Non-woven fabric
- Perlite

MAGOXX[®] Board is not toxic, not explosive and incombustible.

First aid measures

Eye contact: Dust particles can cause temporary irritation and tearing of the eyes. Remove contact lenses when necessary. Rinse the eye immediately with water or physiological salt solution for at least 15 minutes. Contact a physician if the irritation continues.

Skin contact: Dust can cause irritation after friction with the skin. Rinse the skin with mild soap and water. Contact a physician if the irritation continues.

Inhalation: Dust can cause irritation to nose and throat. Good ventilation is needed when processing inside.

Intake: Intake of dust can cause mild inconvenience and irritation of the mouth. Drink enough water. Do not try to provoke vomiting and contact a physician.

Chronic effects: Repeated and long-term exposure to dust can cause a higher risk of bronchitis and can lead to inflammation of the lungs.

Information: Show this document and the safety information sheet to the physician or the authority in question.

Technical Support

Please contact our technical support team for product or installation support concerning any MAGOXX[®] product or service. You can also visit our website, where you will find a wealth of useful information about our products, their benefits and how to use them. This can also be found by the QR-code at the bottom of the page.

Additional information

All our products are tested to European quality standards in the field of health, safety and the environment in accordance with ETAG 018: Guideline for European technical approval of fire protective products.

Performance tests	
CE certified (NB 0620)	ETA 15/0643
Flexural strength	ETAG 18-1 / 18-4, EN 12467 norm 5.2.4 & 7.3.2
Tensile strength (perpendicular to the plane of the board)	EN 326-1, EN 319
Tensile strength (parallel to the plane of the board)	ETAG 18-1 / 18-4, EN 789 norm 9
Compressive strength	ETAG 18-1 / 18-4, EN 789 norm 8
Fire resistant wall construction (wood & metal stud, 60 minutes)	EN 1364-1:2015
Fire resistant steel columns & beams (60 minutes)	EN 13381-4
Water resistance	EN 12467: 2012
Sound transmission class	ASTM E90 & ASTM E413

Productprestaties	MAGOXX [®] Board				
	4mm	6mm	9mm	12mm	18mm
Density	1.000 kg/m ³	1.000 kg/m ³	1.000 kg/m ³	1.000 kg/m ³	1.000 kg/m ³
Construction material fire class	A1	A1	A1	A1	A1
Moisture content (20 °C, 65% RV)	18,1%	18,1%	18,1%	18,1%	18,1%
Thermal conductivity			0.213 w/(m*K)	0.231 w/(m*K)	
Acoustic conductivity (single sheet)			26 dB	27 dB	28 dB
Flexural strength (N/mm ²)	27,48	19,81	13,40	12,33	8,02
Modulus of elasticity (N/mm ²)	7.682	5.315	4.599	4.317	4.288
Tensile strength (N/mm ²)	7,48	4,81	2,61	2,80	2,95
Compressive strength (N/mm ²)	13,43	11,50	10,58	10,06	14,36
Resistance to nail head pull-through			394,5 N		

Availability

MAGOXX[®] handles the following sizes and thicknesses for the MAGOXX[®] board. Each size can be combined with each thickness. The standard colour of the board is white, but delivery of other colours can be discussed.

Length x width (mm)	Thickness (mm)		Colour
3.000 x 1.200 mm	4 mm	12 mm	White (standard)
2.700 x 1.200 mm	6 mm	18 mm	
	9 mm		

By-products

MAGOXX[®] advises to always combine MAGOXX[®] boards with by products from a high quality supplier. Use stainless steel screws for securing the MAGOXX[®] boards. We recommend using stainless steel screws from DynaPlus as a standard.

Board thickness	Screw length	Distance from edge
4 mm	20 mm	15 mm
6 mm	20 mm	15 mm
9 mm	30 mm	15 mm
12 mm	30 mm	20 mm
18 mm	45 mm	20 mm

SINH Building Solutions B.V.
Caballero Fabriek Unit 68
Saturnusstraat 60
2516 AH The Hague
The Netherlands

T: +31 (0) 88 3748400
info@magox.com
www.magox.com

MAGOXX[®] Board is a product of

