AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

FIBRODICE MS - Technical Data Sheet-en

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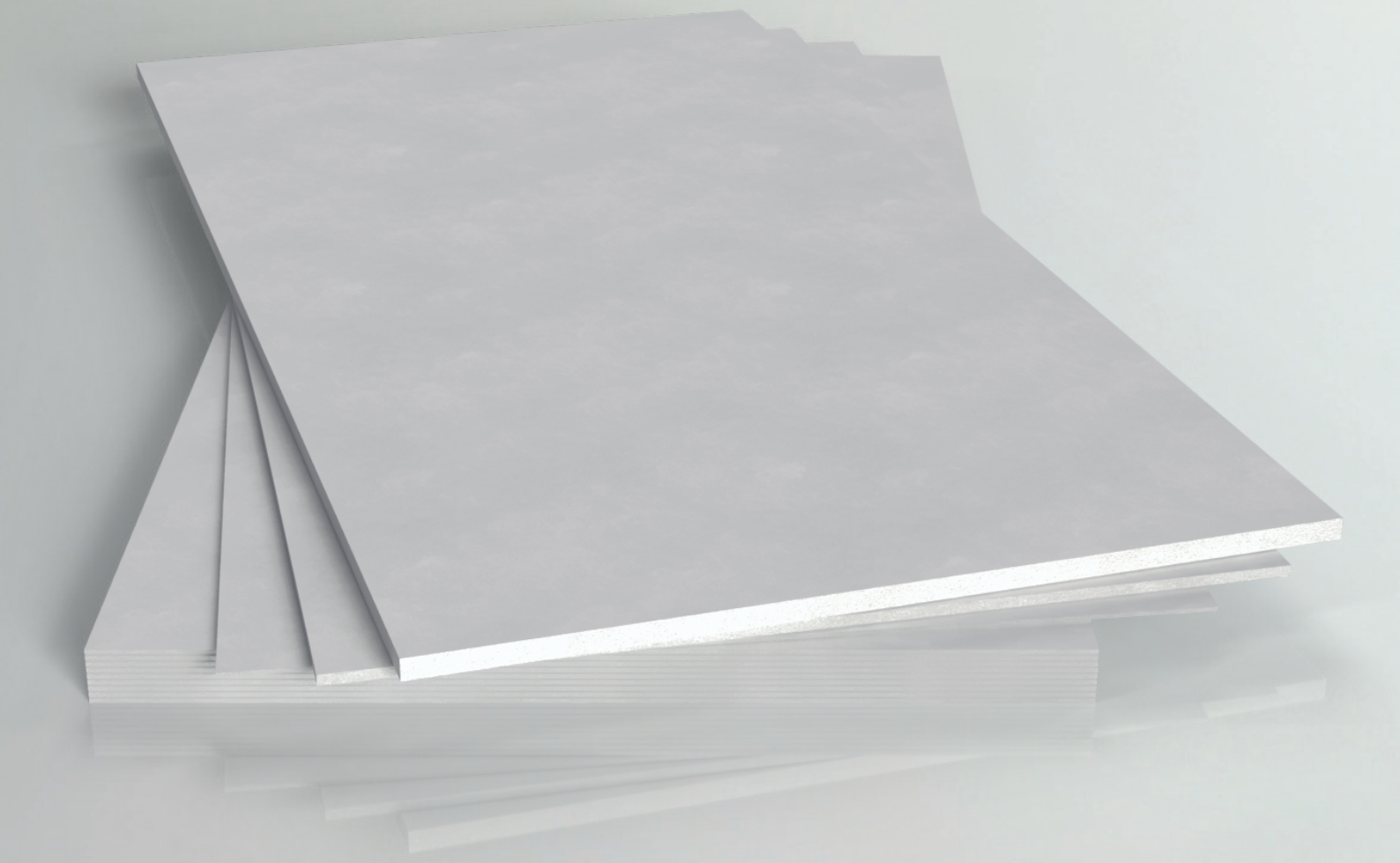
www.gmfireproof.com

以上为销售联系信息，不替代安全数据表中的应急联系电话。
原始技术内容及制造商、检测机构和证书签发信息见后续资料页。

Sales contact only; emergency contacts in safety data sheets remain applicable.
Original technical, manufacturer and certification details follow.

Technical Product Data Sheet

FIBRODICE MS



kuhnodice

Tech. Rev.: 1.0
Ling. Rev.: 1.0

Product description

The FIBRODICE MS is a robust fire protection board made from reinforced magnesium silicate that has been developed for applications with high fire, heat and sound insulation requirements. It features an outstanding level of dimensional stability and can be used as both a fire protection board and a multi-purpose construction board. Thanks to its non-combustible material composition, it offers reliable protection in fire-resistant building elements. The boards are available in a variety of thicknesses ranging from 3 to 30 mm and are suitable for use in doors, walls, floors and for cladding metal structures. FIBRODICE MS is easy to work, can be nailed, screwed or glued and is easy to saw or drill using standard trade tools. Its water and mould-resistant composition means it remains durable and performs well even under challenging environmental conditions.

Reaction to fire

- Class A1 (DIN EN 13501-1)

Properties

- Water and mould-resistant
- High dimensional stability
- Good thermal and noise insulation
- Easy to work with
- Environmentally friendly with no asbestos or formaldehyde

Fields of application

- Fire protection in metal and wooden doors
- Insulation in fire-resistant floors and ceilings
- Protection of partition walls in fire zones
- Thermal break for metal constructions
- Protection of metal structures in buildings
- Multi-purpose construction board for fireproof applications

Features

Outstanding resistance to water and mould. Following 24 hours of complete immersion in water, the board itself has a minimal expansion rate of just 0.2%, while also maintaining its structural integrity.

Technical data

Composition	Reinforced magnesium silicate
Material structure	Fibre board
Reaction to fire	Class A1 (DIN EN 13501-1)
Emission classification [EN ISO 16000 - 6/9, EN 717 - 1]	M1
Thermal conductivity [W/(m·K)]	0.21 (at 20 °C)
Tensile strength [N/mm²]	Tensile strength at a right angle to the board surface is approx. 1.97–2.42
Bending resistance [N/mm²]	12.1 – 17.1
Bulk density [kg/m³]	1050 (±100)
Nominal density [kg/m³]	1050 (±100)
Moisture content (mass percentage)	9.4%
Water absorption	32%
pH value	9.5 – 10
Modulus of elasticity (BS EN 310) [N/mm²]	5210 – 7845
Expansion	0.2% (after 24 hours of immersion in water)
Linear expansion following water absorption	0.06%
Storage	Dry and well ventilated location

Design variants

Sanded	• Smoother and more even surface • Easier to further process, for example, by applying paints, wallpapers or laminates. • Better conditions for applications that require a precise fit or a high-quality visual finish.
Non-sanded	• The surface is untreated and may be rougher as a result. • Suitable for applications where aesthetics or particularly precise surface finishes are not important.

Thickness [mm]	Width × length [mm]	FIBRODICE MS	FIBRODICE MS sanded	Tolerances [mm]			
				Standard thickness	Sanded thickness	Length	Width
3	1220 × 2440	●	–	±0.2	–	-2/+3	±2
6		●	●	±0.4	±0.3		
9		●	●	±0.6	±0.3		
12		●	●	±0.8	±0.6		
15		●	–	±1	–		
20		–	●	–	±1.0		
30	1155 × 2400	–	●	–	±1.2		

Processing information

1. Surface preparation:
   - The surface should be clean and dry to ensure optimal adhesion. FIBRODICE MS boards are robust and stable in form, which makes them an effective option for use as insulating material for fire-resistant metal and wooden doors and for floors and ceilings. Additional cleaning is required if they are to be attached to non-porous surfaces.
2. Installation and fixing:
   - The boards are easy to work and can be sawn, drilled and sanded. They can be fixed in place using nails, screws or glue, which makes them suitable for a wide range of construction applications. FIBRODICE MS is available in thicknesses ranging from 3 to 30 mm.
3. Safety notes:
   - FIBRODICE MS is produced without any asbestos, which means no special precautionary measures are required while working with the product. However, during extensive cutting or drilling work, you should use an extraction system to minimise the accumulation of dust.

Contents of a package/set

Thickness [mm]	Width x length [mm]	Number of boards per pallet
3	1220 × 2440	150
6	1220 × 2440	100
9	1220 × 2440	70
12	1220 × 2440	50
15	1220 × 2440	40
20	1220 × 2440	30
30	1155 × 2400	20

Delivery forms

Dimensions (L × W) [mm]	1220 × 2440 1155 × 2400
Standard thicknesses [mm]	3, 6, 9, 12, 15
Standard thicknesses, sanded [mm]	6, 9, 12, 20, 30

Note

In the event of contact with water or in high humidity, FIBRODICE MS may cause corrosion on metals such as steel and aluminium.

The product consists of natural, inorganic raw materials that are harmless to the environment.
It does not contain any hazardous substances such as asbestos or formaldehyde.