

Thermal **shield**

GB / 6.6 / rev. 7

# FIBRODICE MS



**odice**  
PASSIVE FIRE PROTECTION



## Product description

**FIBRODICE MS** is a board made from reinforced magnesium silicate. **FIBRODICE MS** presents a high level of dimensional stability and can be used as a thermal and acoustic insulator in all fire protection applications. **FIBRODICE MS** is non-combustible. **FIBRODICE MS** is manufactured without addition of asbestos.

## Features

**FIBRODICE MS** boards present the following characteristics:

- Robust and dimensionally stable material.
- **FIBRODICE MS** does not deteriorate under the effect of water or mould growth and is impervious to insect and vermin attack.
- Thermal insulation: **FIBRODICE MS** provides an effective thermal insulation and an excellent support for additional insulators such as mineral wool, soluble alkaline earth fibres, **ODIBOARD** etc.
- Good acoustic insulation, enhanced when combined with a mineral wool.
- Its smooth surface allows the application of paint, wallpaper or laminate with a minimum of preparation.
- Environment: **FIBRODICE MS** boards are manufactured from natural, inorganic raw materials which do not represent a hazard to man or the environment. They contain no formaldehyde.
- **FIBRODICE MS** boards can be used both for fire protection and as a multi-purpose construction board.

**FIBRODICE MS** is easily worked: simple to sand, saw and drill. The boards can be nailed, screwed or glued.

## Technical Data

FIBRODICE MS	Unit	Value
Nominal density when dry	(kg/m <sup>3</sup> )	1050 (± 100)
Thermal conductivity - EN 12664	(W/m.K)	0,210
Bending strength - BS EN 310	(N/mm <sup>2</sup> )	12,1 to 17,1
Modulus of elasticity - BS EN 310	(N/mm <sup>2</sup> )	5210 to 7845
Tensile strength (perpendicular to the panel surface) - BS EN 319	(N/mm <sup>2</sup> )	1,97 to 2,42
Expansion after 24 hours of immersion - BS EN 317	(%)	0,2
Average water content - BS EN 322	(%)	9,4
Elongation after water absorption	(%)	0,06
Water absorption	(%)	32
pH		9,5 to 10
Reaction to fire classification - EN 13501-1		A1
Emission classification (EN ISO 16000 - 6/9, EN 717 -1)		M1

## Applications

- Insulation for wood and metal fire resistant doors.
- Floors and ceilings.
- Partitions.
- Protection of metal structures.
- Thermal break in metal construction.

## Product range

### FIBRODICE MS

- Thicknesses available: 3, 6, 9, 12, 15, 20 and 30 mm (for other thicknesses, please contact us).
- Width x Length, general tolerances:

Thickness	Width x Length	Fibrodice MS	Fibrodice MS sanded	Tolerances			
				Standard thickness	Sanded thickness	Length	Width
mm	mm			mm	mm	mm	mm
3	1220 x 2440	•	-	± 0,2	-	-2/+3	± 2
6	1220 x 2440	•	•	± 0,4	± 0,3	-2/+3	± 2
9	1220 x 2440	•	•	± 0,6	± 0,3	-2/+3	± 2
12	1220 x 2440	•	•	± 0,8	± 0,6	-2/+3	± 2
15	1220 x 2440	•	-	± 1	-	-2/+3	± 2
20	1200 x 2400	-	•	-	± 1	-2/+3	± 2
30	1155 x 2400	-	•	-	± 1,2	-2/+3	± 2

- Tolerances for custom cutting and machining:
  - Width: ± 0,5 mm
  - Length: -1 to 0 mm

**FIBRODICE MS can be custom cut in large or small strips and machined according to your drawings in our workshops.**

### Packaging

Number of boards per pallet:

Thickness	3 mm	6 mm	9 mm	12 mm	15 mm	20 mm	30 mm
Nbr. boards/pallet	150 boards	100 boards	70 boards	50 boards	40 boards	30 boards	20 boards

### Storage

Store in a dry, well-ventilated area.

### Health and safety measures

**FIBRODICE MS** is manufactured without the addition of asbestos. It is not necessary to take special precautions when handling and using it.

A dust extraction system must be used for intensive cutting or drilling in order to control dust levels.

A safety data sheet is available.

IMPORTANT: while the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by ODICE hereunder are given free of charge and ODICE assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.



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