

Data sheet

ENGLISH

# FireMaster® boards



## Description

FireMaster® Board products are rigid panels manufactured using low bio-persistent fibres, selected fillers and binders for use in a variety of fire insulation applications. The board formulation is optimised to meet various fire insulation application requirements combined with ancillary properties such as weight and strength.

### FireMaster® 350 board

Made exclusively from low bio-persistent alkaline earth silicate (AES) fibres, refractory fillers and a small amount of organic binders, this board is recommended for fire protection applications where lightweight, rigid panels are required. FireMaster® 350 board is available in thicknesses up to 50mm, is easy to cut and can be glued onto substrates for fast installation. The board is an excellent thermal insulator and is an ideal replacement for high density mineral wool saving weight and space.

### FireMaster® 550+ board

Made exclusively from low bio-persistent alkaline earth silicate (AES) fibres combined with other components and fire retardant fillers. This board is specially formulated to provide a high degree of fire insulation performance combined with high mechanical strength.

FireMaster® 550+ board is available in large panel sizes and has good screw fixing and stapling strength making it ideal for the construction of walls, ceilings and partition systems. FireMaster® 550+ board has a dvantages of lower weight and lower thermal conductivity than calcium silicate boards together with the benefit of water repellence. In addition, FireMaster® 550+ board has low dust emission during cutting operations.

## Main properties :

### FireMaster® 350 board

Reaction to Fire: Non-combustible in accordance with IMO FTP code  
General handling properties at ambient conditions (23°C/50% RH)

- Nominal density. (kg/m<sup>3</sup>) 350
- Flexural strength. (MPa) (modulus of rupture) 1.5
- Compressive strength. (MPa) (10% reduction in thickness) 0.3
- FireMaster 350 board has been tested for sound absorption and sound transmission reduction – please contact your local Morgan Thermal Ceramics Office for the tested values.

## Main properties :

### FireMaster® 550+ board

General handling properties at ambient conditions (23°C/50% RH)

- Nominal density (kg/m<sup>3</sup>) EN 1602 550
- Thickness Range EN 823 9mm to 30mm
- Reaction to Fire EN 13501-1 Class A1
- Nominal Compression 10% deformation EN 826. (kPa) 1100
- Tensile Strength Perpendicular to Faces EN 1607. (kPa) 150
- Modulus of Rupture in bending EN 13169 § 4.3.7. (kPa) 3100
- Dimensional stability after 48 hours at 70°C and 90% RH, length and width/ thickness EN 1604. (kg/dm<sup>3</sup>) ≤ 0.07

## Applications

- Compartment walls and ceilings from B15 standard upwards
- Infill in fire doors and cladding systems
- Floating floor systems in offshore and ship building industries
- Structural steel fire protection (FireMaster® 550+ board)
- Fire damper systems insulation (FireMaster® 550+ board)
- Core material for fire rated decorative veneered panel systems
- Ducting systems

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**Availability and packaging**
**FireMaster® 350 board**
**Standard thickness range** 20mm, 25mm, 40mm, 50 mm

**Panel Size** 1000mm x 1200mm, 2400mm x 1200mm

**Packaging details**

Thickness (mm)	Number of boards per pallet
20	48
25	36
30	30
40	24
50	18

**FireMaster® 550+ board**
**Standard thickness range** 10mm, 15mm, 20mm, 25mm, 30mm(\*)

(\*) thicker boards can be achieved by bonding 2 boards together

**Panel Size** 2400mm x 1200mm. Sizes up to 3000mm x 1200mm are possible on request.

**Packaging details**

Thickness (mm)	Number of boards per pallet
10	102
15	72
20	54
25	42
30	36

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**SUPERWOOL®** is a patented technology for high temperature insulation wools which have been developed to have a low bio persistence (information upon request). **SUPERWOOL®** products may be covered by one or more of the following patents, or their foreign equivalents:

**SUPERWOOL® PLUS** and **SUPERWOOL® HT** products are covered by patent numbers: US5714421 and US7470641, US7651965, US7875566, EP1544177 and EP1725503 respectively.

A list of foreign patent numbers is available upon request to Morgan Advanced Materials plc.

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