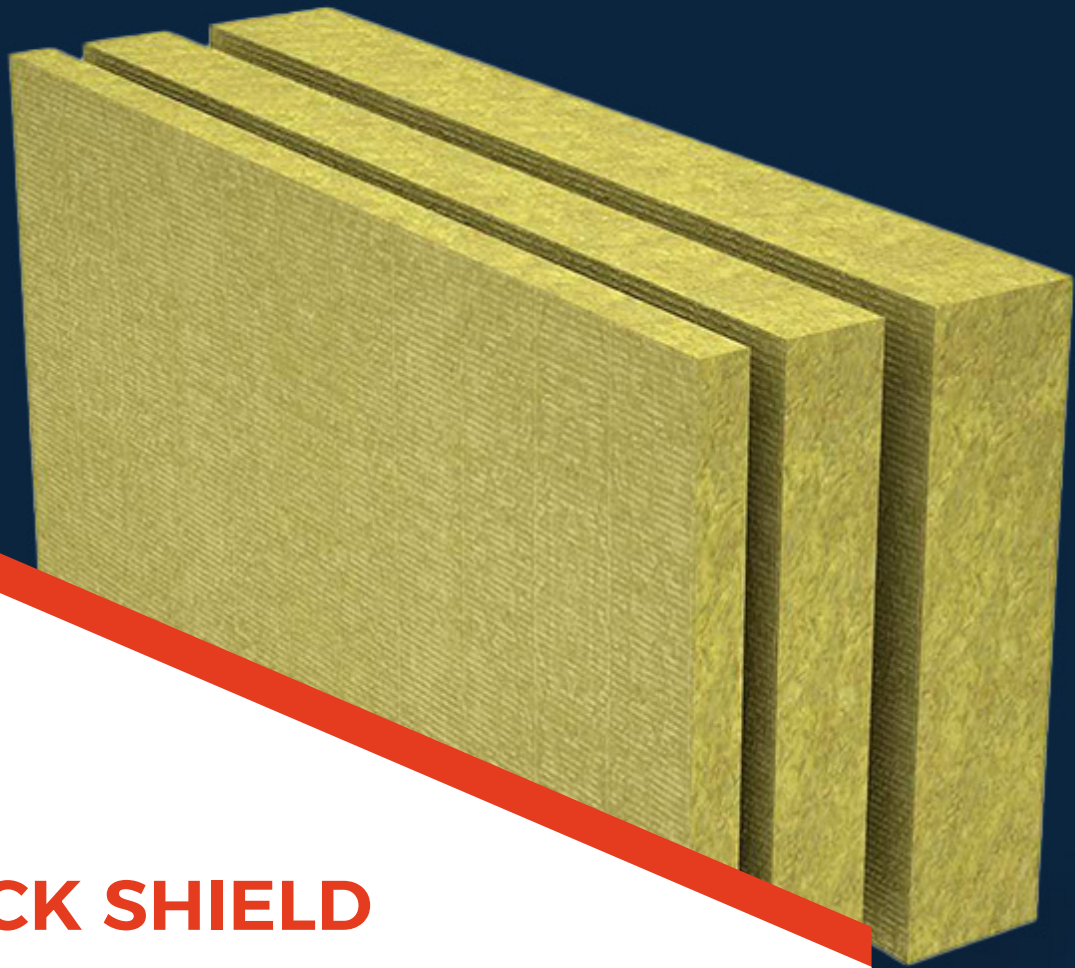




FIBROCK SHIELD

Rock Wool Insulation Boards

Product Description

FIBROCK SHIELD is a high-performance rigid insulation boards / panels made from inorganic volcanic basalt rocks with a thermosetting resin binder through an advanced manufacturing process.

FIBROCK SHIELD is available with an unfaced or faced with variety of facing options, including ALUMINUM FOIL, KRAFT-PAPER, BGT, BGF, FSK, offering versatile solutions to a wide range of insulation applications.

FIBROCK SHIELD provides exceptional thermal and acoustic insulation while offering outstanding fire resistance, making it ideal for a wide range of industrial, commercial, and residential applications.

Key Features:

Superior Thermal Performance:

FIBROCK SHIELD provides excellent thermal insulation, helping to maintain comfortable indoor temperatures and reduce energy costs.

Fire Resistance:

With a melting point above 1,000°C (1,800°F), these boards provide outstanding fire protection, making them ideal for safety-focused projects.

Sound Absorption:

The dense fiber structure effectively reduces sound transmission, creating quieter indoor environments.

Customizable:

Available in various thicknesses and densities to accommodate specific clients needs.

Moisture Resistance:

Naturally resistant to water, FIBROCK SHIELD is water resistant which prevents mold and mildew growth and to control the corrosion under insulation problems.

Eco-Friendly:

Made from sustainably sourced natural materials, FIBROCK Wool is recyclable and has a lower environmental impact than synthetic insulation options.

FIBROCK MESHROLL APPLICATIONS & USAGE:

- Insulation in commercial and industrial
- Insulation in walls, floors, and ceilings.
- soundproofing applications.
- Containers
- Storage Tanks.
- Boilers.
- Power stations
- Fire-resistant barriers



FIBROCK SHIELD Facings

■ FIBROCK SHIELD unfaced

■ FIBROCK SHIELD ALUMINUM FOIL

■ FIBROCK SHIELD KRAFTPAPER

■ FIBROCK SHIELD FSK

■ FIBROCK SHIELD BGT or BGF

■ FIBROCK SHIELD VINYL

FIBROCK SHIELD Technical Properties

PROPERTIES	PERFORMANCE	REFERENCE
Thickness (MM)	25 - 100 mm	ASTM C585
Density (kg/M3)	40 - 160 Kg/m3	ASTM C302
Thermal Conductivity at (10°C)	0.035 - 0.037 W/m.k	EN 13162:2008
FACING	Unfaced or faced with Kraft Paper - Aluminum Foil - FSK - BGT or BGF - VINYL	-
Maximum Service Temperature	750 °C	ASTM C411
Reaction to Fire	Classified A1	ASTM E84
MAX. Flame Spread Index	<25	ASTM E84
FLAME SPREAD INDEX	0	ASTM E84
SMOKE DEVELOPED	0	ASTM E84
Max. Smoke Developed Index	<50	ASTM E84
Water Absorption)	<1 KG/M ²	ASTM C1104
Chloride Content	<10 PPM	ASTM C871/C795
Shot Content	<10% by weight	ASTM C 1335
Rigidity	Rigid	ASTM C1101/C1101M
Dimension L x W (mm)	1200 X 600 mm	ASTM C585
Fungi Resistance	No growth	ASTM C1338

FIBROCK SHIELD is Tailor-made

Wide range of densities, dimensions and thicknesses can be manufactured according to client requirements and specifications. Multiple dimensions and thicknesses can be produced according to the client's requirements and specifications.

FIBROCK SHIELD PACKAGING & STORAGE

FIBROCK SHIELD products are covered by shrink-wrapped polyethylene.

FIBROCK SHIELD must be stored in their original packaging in covered areas and off the ground to protect the materials from getting wet.

APPLICABLE STANDARDS

FIBROCK SHIELD fully complies with the following standards:

ASTM C612 Type IA, IB, II, III, and IVA: Standard specifications for mineral fiber block and board thermal insulation

ASTM C411: Standard Test Method for Hot-Surface Performance of High-Temperature Thermal Insulation

ASTM E84: Surface Burning Characteristics of Building Materials.

ASTM C1104: Standard Test Method for Determining the Water Vapor Absorption of Unfaced Mineral Fiber Insulation.

ASTM C871: Standard Test Methods for Chemical Analysis of Thermal Insulation Materials for Leachable Chloride, Fluoride, Silicate, and Sodium Ions.

ASTM C795: Specifications for thermal insulation for contact with austenitic stainless steel.

ASTM C1335: Standard Test Method for Measuring Non-Fibrous Content of Man-Made Rock and Slag Mineral Fiber Insulation.



FIBROCK SHIELD THERMAL PERFORMANCE

FIBROCK SHIELD has a low thermal conductivity when tested to ASTM C518 as follows:

Mean Operating Temperature °C	Density 40 KG/M3	Density 70 KG/M3	Density 100 KG/M3	Density 140 KG/M3	Density 160 KG/M3
50	0.039	0.038	0.038	0.038	0.039
100	0.054	0.047	0.045	0.046	0.048
150	0.069	0.055	0.052	0.053	0.053
200	0.088	0.066	0.061	0.057	0.058
250	0.105	0.079	0.071	0.068	0.066
300	0.110	0.093	0.082	0.076	0.074

QUALITY ASSURANCE

Fibro Rock Egypt manufactures premium Rockwool insulation materials with Fibrotermica Hellas SA company technology, one of the leading companies in Rockwool insulation material manufacturing in the European community. With roots in Greece since the early 2000s, Fibro Rock Egypt, as an extension of Fibrotermica Hellas SA, continues a tradition of excellence in Rockwool manufacturing.

We ensure top-tier performance with materials that align with sustainability and environmental safety standards.



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