

Product Information

Mineral Wool Insulation Board



DESCRIPTION:

Mineral Wool Insulation Board in Exterior Insulation and Finish Systems (EIFS) Mineral Wool (also known as rock wool or stone wool, e.g., ROCKWOOL Frontrock®) is a non-combustible, fibrous insulation material made from basalt rock and slag, used as the insulation layer in specialized Exterior Insulation and Finish Systems (EIFS). In these applications, mineral wool boards attach to the substrate (typically adhesively and mechanically fastened), then cover with a reinforced base coat (polymer-modified cementitious material embedded with fiberglass mesh) and a textured protective finish coat. While foam plastics like EPS remain dominant in EIFS, **mineral wool is selected for its superior fire resistance, making it ideal for high-rise buildings, fire-rated assemblies, and projects requiring non-combustible materials.** It provides continuous insulation, excellent drainage in modern systems, vapor permeability for drying, and enhanced acoustic performance. Mineral wool EIFS systems excel in energy efficiency, moisture management, reduced thermal bridging, and compliance with stringent fire codes.



KEY CHARACTERISTICS OF MINERAL WOOL FOR EIFS:

- **Density** — Typically 4–8 lb./ft³ (64–128 kg/m³), semi-rigid for mechanical attachment; dual-density options available (denser outer layer for durability).
- **Form** — Rigid boards, commonly 24 in x 48 in (610 mm x 1220 mm) or larger, with thicknesses from 1.5–6 inches (38–152 mm) or more.
- **Properties** — Open fibrous structure for high vapor permeability and drainage; non-combustible (melts above 2000°F/1093°C); hydrophobic (water-repellent); excellent sound absorption; stable dimensions; recyclable and often high recycled content.
- **Benefits in EIFS** — Outstanding fire safety (non-combustible, no flame spread or toxic smoke); R-value approximately 4.0–4.3 per inch; superior impact resistance; allows rapid wall drying; no dark color restrictions (unlike foams); enhanced acoustics; suitable for mechanically fastened systems.

BASIC STANDARDS FOR MINERAL WOOL IN EIFS:

Mineral wool for EIFS must meet requirements for fire performance, drainage, adhesion, and durability, with extensive system-level testing due to its fibrous nature.

- **ASTM C612** – Standard Specification for Mineral Fiber Block and Board Thermal Insulation. Primary standard for mineral wool boards used in EIFS (e.g., Type IV or higher for density, compressive strength, and thermal properties).
- **Additional considerations:** Non-combustibility per ASTM E136; surface burning ASTM E84 (Class A, flame spread 0); wall assembly fire propagation NFPA 285; drainage efficiency ASTM E2273; impact resistance ASTM E2486; building codes (e.g., IBC for non-combustible construction, IECC for continuous insulation); system-specific approvals from manufacturers and guidelines from the EIFS Industry Members Association (EIMA).

Note that mineral wool in EIFS is typically limited to approved systems and requires specialized boards engineered for exterior exposure and lamina adhesion—generic mineral wool may not be suitable. For project-specific details, consult the Decoplast, as they perform proprietary testing (e.g., NFPA 285 compliance) and provide warranties for mineral wool integration.

ATTENTION/IMPORTANT

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