

Density-10kg/m³

General description: Knauf metal building insulation with ECOSE Technology is flexible or semi rigid fiber glass blanket insulation with ECOSE Technology. The base blanket is amber colored Inorganic Glass fibers bonded with phenol-formaldehyde free binder to provide a smooth, tough finish

Product Description: KNAUF Insulation is manufactured by spinning molten glass, containing up to 60% recycled glass into fine wool like fibers, bonded together using a thermo setting resin.

Applications: Knauf Insulation with ECOSE Technology is designed for use as thermal and acoustical insulation with or without facing. It is widely used for the

insulation of heating, ventilating and cooling duct work, Insulating building interior & sandwich paneling. Knauf Insulation comes in a range of thickness that meets the performance requirements of the customers. The application include: Offices, shopping centers, Schools etc.

Features and Benefits: Excellent Sound absorption capabilities, Chemically inert, mold resistance and corrosion resistance, Excellent water resistance, Good service Temperature, Excellent durability, Non-hygroscopic, Does not produce smoke & Toxic gases, Environment friendly and helps in greenhouse effect, Good dimension stability with fine finish.

Product Details:

Density (kg/m ³)	Nominal Thickness (mm)	Facing	Nominal Length (m)	Nominal Width (mm)	Nominal coverage per roll (m ²)	Nominal weight per piece. (kg)
10	50	FSK	20	1200	24.0	12.0

Physical Properties:

Parameters	Standards Compliance	Properties
Thermal resistance at 25°C (R-value)	ASTM C 518	1.14m ² .K/W 6.56ft ² .h.F/Btu
Surface Burning Characteristics	ASTM E 84, NFPA255,UL723	Flame Spread Index<25 Smoke Developed Index<50
Maximum Use Temperature	ASTM C 411	250°C
Odor emission	ASTM C 1304	No perceptible odor
Fungi/mold growth	ASTM C 1338	Nil
Corrosiveness to steel	ASTM C 795	Nil
Non-Combustibility	ASTM E 136, BS476 part 6& 7	Non combustible, Class O

ECOSE Technology

ECOSE Technology is a revolutionary new binder based on rapidly renewable bio-based materials rather than non-renewable petroleum-based chemicals such as phenol, formaldehyde or acrylics. ECOSE Technology reduces Knauf binder embodied energy and contains no phenol, formaldehyde, acrylics or artificial colors found in traditional fiber glass insulation.

Product Quality Compliance:

Knauf Metal Building Insulation comply with ASTM C167, C168, C356, C411, C423, C518, C553, C653, C665, C795, C1045, C1101, C1136, C1335, C1338, C1104/C1104M, E84, E96, E136, EN 822, EN 823, EN 824, EN 1602, EN1604, EN 1608, NFPA255, UL723, ISO1716, ISO1182 , BS476 part 6 & 7 requirements for Density, Apparent Thermal conductivity, Fungi resistance, Acoustical, Maximum use temperature, Corrosiveness to steel, Odor emission, Water absorption, Non combustible and Fire rating properties.

Standards Compliance:

Knauf Insulation is UL Classified (*file no.BKNV.R27644*)and manufactured with BSEN 13162:2008, as certified by Dubai Central Laboratory; ISO9001:2008 Quality Management Systems, ISO14001:2004 Environment Management Systems and OHSAS18001:2007 Occupational Health and Safety Management Systems as certified by TÜV NORD.

for KNAUF EXEED Insulation LLC,