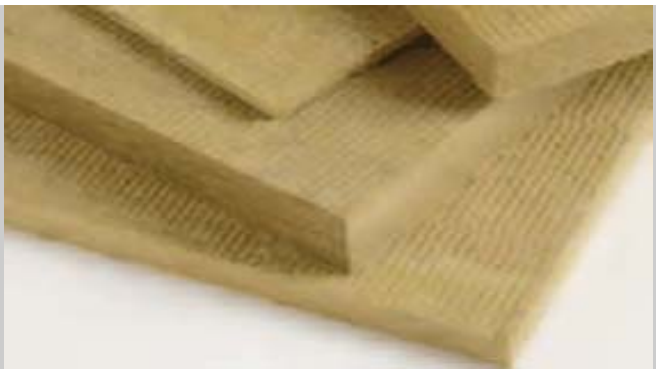
Specification Sheet

Dense Fibre Matting



- **Various Thicknesses**
- **Cavity Infill**
- **Easy to cut to size**
- **1200mm x 600mm**

Description:

DFM products are manufactured to a higher density than other mineral wool slabs and provide improved soundproofing acoustic control across a wide range of frequencies. Effective sound proofing insulation is an essential requirement for modern life styles. Excessive noise maybe from noisy neighbours can increase stress, hinder speech and can cause its own form of environmental pollution.

DFM has been proven over many years to be the ideal soundproofing insulation material for all applications where noise attenuation or noise absorption is needed - in Soundproofing in the home / domestic, commercial, manufacturing, industrial and environmental situations. In addition to its acoustic properties, its well known thermal insulation and fire protection performance are inherent benefits. DFM is ideal for use as a stand alone infill in stud framework of walls, floor joists and occasionally suspended ceilings. Its main purpose is to reduce airborne noise.

These slabs should not be confused with thermal insulation which comes in roll form. Typical thermal insulation will only have a density of approximately 15kg/m3. We supply and recommend the slab form only, which can vary in density, starting at a minimum of 45kg/m3. This density is the key to the superior reduction which the acoustic mineral wool provides over the thermal roll insulation.

Dense Fibre Matting consists of unfaced, rock mineral wool slabs, available in a range of densities from 45 to 140 kg/m3. The standard product is supplied unfaced, but slabs can also be manufactured with a factory applied foil or tissue facing and are also available with a water repellent additive.

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Dense Fibre Matting is used for a wide range of thermal and acoustic insulation applications in buildings, building services and industry.

Standards

Dense Fibre Matting is made from non-combustible inorganic rock wool, defined as mineral wool in BS 3533: 1981 and are manufactured to a Quality Assurance system which complies with BS EN ISO 9001:2000.

Durability

Dense Fibre Matting is odourless, non-hygroscopic, rot proof, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Environmental

Dense Fibre Matting is free from CFCs, HCFCs and any other material with ozone depletion potential in their manufacture and content and represents no known threat to the environment.

Dense Fibre Matting's manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.

Performance

Thermal Performance

The thermal conductivity of Dense Fibre Matting varies with density from 0.035 to 0.037 W/mK – see table below.

Fire Performance

Dense Fibre Matting is classified as Euroclass A1 to BS EN ISO 13501-1.

Benefits

Wide range of densities
Non-combustible
Excellent thermal and acoustic properties

Fire Performance

Dense Fibre Matting is classified as non-combustible to BS 476: Part 4: 1970 (1984) and Euroclass A1, Class 1 Surface Spread of Flame to BS 476: Part 7 1997 and Class 'O' to the Building Regulations.

Moisture Resistance

Dense Fibre Matting is non-wicking when tested to BS 2972: 1989: Section 12. When exposed to 90% relative humidity at 20°C, Rocksilk Universal Slabs absorb less than 0.004% of moisture.

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Vapour Resistance

Dense Fibre Matting has a vapour resistance of 7.00 MN.s/g.m

Operating Temperatures

Dense Fibre Matting can be used up to continuous operating temperatures of 850°C. This is dependent on density.

Handling and Storage

Dense Fibre Matting is easy to handle and install, being lightweight and easy to cut to size. Supplied in packs in Supakube pallets. For longer term outside storage (stock or site) the pallets should be stored under a secure waterproof covering. Rocksilk Universal Slabs should not be left permanently exposed to the elements.

Acoustic Performance

Absorption Co efficiency

Material	Thickness	Frequency 125 Hz	250Hz	500 Hz	1 K	2K	4K
DFM 100kg	50mm	0.35	0.85	1.10	1.10	1.15	1.10
DFM 100kg	75mm	0.44	1.00	1.00	1.00	1.00	1.00

Various other thicknesses are available.

Material	Thickness	Mounting	Frequency 125 Hz	250Hz	500 Hz	1 K	2K	4K
DFM 140kg	50mm	Solid backing	0.40	0.90	1.15	1.05	1.10	0.95

Conditions on site may vary and where DFM is only a part of the installation, NoiseStop Systems cannot accept any responsibility.

Thermal Conductivity

Thermal conductivity W/mK at various mean temperatures	10°C	100°C	200°C	300°C	400°C
	0.034	0.046	0.065	0.090	0.123

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Compression Strength

10 kN/m² (compression 10%)

Hazard Identification

May cause temporary skin irritation. High dust levels may irritate the throat or eyes.

Ecological Information

Stable product with no known adverse environmental effects.

Toxicological Information

Not classified as a carcinogen under the EU Dangerous Substances Directive 67/548/EEC and Directive 97/69/EC.
No link between exposure to mineral wool fibres and lung disease in production or user industries.
No chronic effects usually associated with skin or eye contact.

Product Data:

Size	**1200mm x 600mm**
Depth	**Various**
Weight	**Various**
Covers An Area Of	**0.72m2**