

PIPE SECTION MAT (PSM)

For large diameter pipes and ducts



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Pipe Section Mat (PSM) is designed for thermal and acoustic insulation of large diameter pipes, ducts, chimneys and small vessels.

Pipe Section Mat (PSM) is designed for HVAC applications for pipework above 406mm diameter for service temperatures of up to 700°C.





Advantages

- Excellent thermal and acoustic insulation for large diameter pipes and vessels
- Easy to handle and install due to flat-pack supply
- High temperature use
- High compressive strength
- Ideal for use where storage space is limited

Description

Pipe Section Mat (PSM) consists of a rigid foil faced slab with factory machined grooves on the inside face to specifically suit large pipe diameters. The distance between the grooves is calculated to ensure that Pipe Section Mat (PSM) closely fits the pipe with all grooves tightly butted together.

Applications

Pipe Section Mat (PSM) is designed for HVAC applications for pipework above 406mm diameter. Below this size we recommend you use RockLap H&V Pipe Section.

The product is recommended for service temperatures of up to 700°C.

Performance

Durability

ROCKWOOL stone wool insulation products have been proven in service for over 60 years, in a wide range of climates and degrees of exposure. ROCKWOOL insulation will generally perform effectively for the lifetime of the building. Precise lifetime performance will of course depend on the specific installation and conditions to which it is exposed.

Biological

ROCKWOOL stone wool fibres are inert and rot-proof that does not encourage the growth of fungi, mould or bacteria. ROCKWOOL insulation does not offer sustenance to vermin and we are not aware of rodents or insects having nested within ROCKWOOL products.

Standards and approvals

Pipe Section Mat (PSM) conforms to BS EN 14303:2009: "Thermal insulation products for building equipment and industrial installations".

Pipe Section Mat (PSM) also satisfies the requirements as set by BS 5422: Method for specifying thermal insulating materials for pipes, tanks, vessels, ductwork and equipment operating within the temperature range -40°C to +700°C.

Product properties in accordance with EN 14303

	Performance								Norms
	T _m (°C)	50	100	150	200	250	300	350	
Thermal conductivity	λ (W/mK)	0.041	0.046	0.054	0.064	0.075	0.088	0.106	EN ISO 8497
Maximum service temperature		700°C							EN ISO 14706
Reaction to fire		Euroclass A1							EN 13501-1
Nominal Density		140 kg/m ³							EN 1602
Water absorption		< 1 kg/m ²							EN 1609
		< 20 kg/m ³							BP 172
Water vapour diffusion resistance		sd > 200m							EN 12086
Air flow resistivity (*)		> 60 kPa.s/m ²							EN 29053
Designation code (*)		MW EN 14303-T4-ST(+)700-WS1-MV2							EN 14303

(*): performances declared on the basis of test results from slabs in equal density

Installation

The method of fixing depends on the type of application and whether single or multiple layers of Pipe Section Mat (PSM) are required. Usually the fixing of each layer is achieved with metal tie wires or bands. Typically, an exterior cladding is then installed. Pipe Section Mat (PSM) is compatible with all typical exterior finishes.

Sustainability

As an environmentally conscious company, ROCKWOOL promotes the sustainable production and use of insulation and is committed to a continuous process of environmental improvement.

All ROCKWOOL products provide outstanding thermal protection as well as four added benefits:



Fire resistance



Acoustic comfort



Sustainable materials



Durability

Health & Safety

The safety of ROCKWOOL stone wool is confirmed by current UK and Republic of Ireland health & safety regulations and EU directive 97/69/EC: ROCKWOOL fibres are not classified as a possible human carcinogen.

A Material Safety Data Sheet is available and can be downloaded from www.rockwool.co.uk to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH).

Environment

Made from a renewable and plentiful naturally occurring resource, ROCKWOOL insulation saves fuel costs and energy in use and relies on trapped air for its thermal properties.

ROCKWOOL insulation does not contain (and has never contained) gases that have ozone depletion potential (ODP) or global warming potential (GWP).

ROCKWOOL stone wool insulation is approximately 97% recyclable. For waste ROCKWOOL material that may be generated during installation or at end of life, we are happy to discuss the individual requirements of contractors and users considering returning these materials to our factory for recycling.



Interested?

For further information, contact the Technical Solutions Team on 01656 868490 or email technical.solutions@rockwool.co.uk

Visit www.rockwool.co.uk to view our complete range of products and services.

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The ROCKWOOL Trademark

ROCKWOOL® - our trademark

The ROCKWOOL trademark was initially registered in Denmark as a logo mark back in 1936. In 1937, it was accompanied with a word mark registration; a registration which is now extended to more than 60 countries around the world.

The ROCKWOOL trademark is one of the largest assets in the ROCKWOOL Group, and thus well protected and defended by us throughout the world.

If you require permission to use the ROCKWOOL logo for your business, advertising or promotion. You must apply for a Trade Mark Usage Agreement. To apply, write to:
marketcom@rockwool.com.

Trademarks

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RAINSSCREEN DUO SLAB®

HARDROCK®

ROCKFLOOR®

FLEXI®

BEAMCLAD®

FIREPRO®

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Notes

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