

The **Rocktherm™** thermal pipe support inserts are manufactured from high density Stone Wool to suit a full range of diameters and thicknesses covering copper, steel and plastic pipes.

BS5970 2012 thermal insulation code of practice recommends the use of insulated pipe support inserts and that the pipe support bracket be fixed over load bearing insulation of the same material (or compatible with) the insulation on the pipe.

The **Rocktherm™** thermal pipe support inserts are supplied with a factory applied aluminium foil vapour barrier and are cut to the required length. A half metal sleeve (or full if required) can be applied, often required from 48mm O/D and above.

The use of factory manufactured Stone Wool insulated load bearing thermal pipe support inserts will greatly reduce the risk of condensation on cold/chilled water pipe applications, providing continuous insulation and vapour resistance as well as enhancing the thermal insulation performance of the system. The thermal pipe support inserts should also be used on hot and heating pipe work for continuous thermal insulation and reduction in heat loss.

Manufacturing Process

The **Rocktherm™** thermal pipe support inserts are manufactured from Paroc Pro Slab with a density of 200kg/m³ as standard, an aluminium foil vapour barrier is then adhered to the outer surface with an aqueous inorganic, non-combustible adhesive.

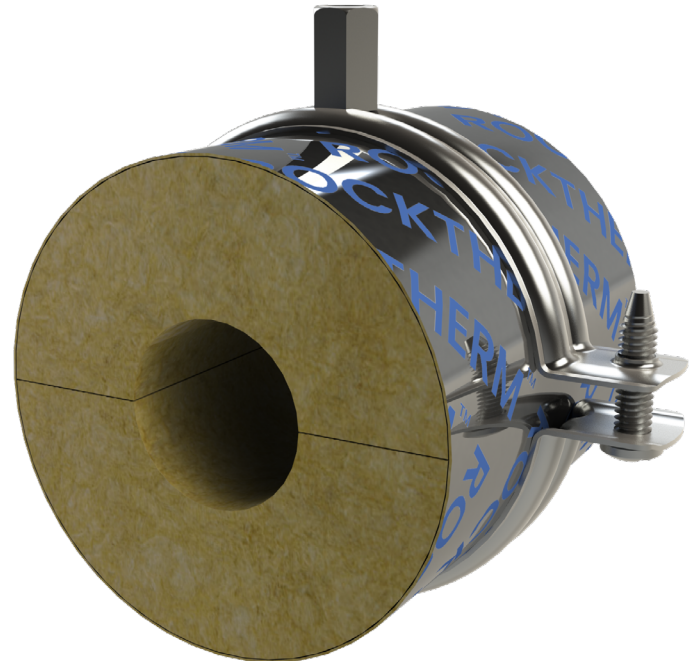
Dimensional Stability

Although the material has a maximum service temperature of 660°C and maintains dimensional stability in slab form, the maximum service temperature for dimensional Stability as a pipe insert is **250 °C**

Product Characteristics

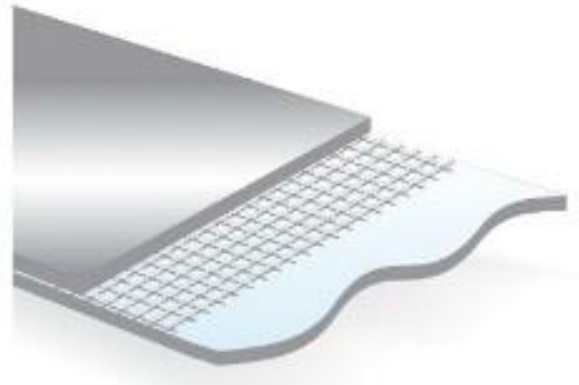
PROPERTY	DESCRIPTION
Standard O/D Range	15mm to 205mm
	Other diameters available on request
Standard Wall Thickness	20mm to 100mm
	Other thicknesses available on request
Standard Lengths	80mm & 100mm
Nominal Density	200kg/m ³
Reaction to Fire	Non-combustible

ROCKTHERM™



Foil Characteristics

Versatile facing for insulation applications
 Fire load calculated (PCS) 0.5MJ/m²
 Water vapour barrier
 Temperature resistance from -40°C to +100°C
 Glass fibre scrim reinforcement
 18µm
 Specially treated.



Property	Test Method	Test Conditions	Units	18FT
Grammage	ISO 536	23°C 50% RH	g/m ²	68
WV-TR	ISO 2528	23°C 50% RH	g/m ² d	<0,015
Burst Strength	ISO 2758	23°C 50% RH	kPa	180
Emissivity	ASTM C1371			0,5

Slab Characteristics

Property	Value	According To
FIRE PROPERTIES		
Reaction to Fire, Euroclass	A1	EN 14303:2009+A1:2013 (EN 13501-1)
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013
THERMAL PROPERTIES		
Thermal Conductivity in 50 °C, λ ₅₀	0,042 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 100 °C, λ ₁₀₀	0,046 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 150 °C, λ ₁₅₀	0,052 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, λ ₂₀₀	0,060 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 300 °C, λ ₃₀₀	0,081 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 400 °C, λ ₄₀₀	0,110 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 500 °C, λ ₅₀₀	0,147 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 600 °C, λ ₆₀₀	0,192 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 660 °C, λ ₆₆₀	0,222 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Dimensions and Tolerances	T5	EN 14303:2009+A1:2013 (EN 823)
MOISTURE PROPERTIES		
Water Absorption, Short Term WS, (W _p)	≤ 1 kg/m ²	EN 14303:2009+A1:2013 (EN 1609)
Water Vapour Diffusion Resistance	NPD	EN 14303:2009+A1:2013 (EN 12086)
Chloride Ions, Cl-	< 10 ppm	EN 14303:2009+A1:2013 (EN 13468)

Installation

Installation to comply with the requirements of BS5970:2012 code of practice for the thermal insulation of pipe work is essential.

Use minimum 50mm wide matching aluminium foil tape at circumferential and longitudinal joints.

Use stone wool insulation inserts at the pipe support points, ensuring the butt joint with regular pipe section are matched and sealed with aluminium foil tape and all metal work is external to the insulation.

External pipe work should be weather protected with an appropriate cladding/jacketing system.

Pipework must be thoroughly cleaned and dry prior to the application of **Rocktherm™** thermal pipe supports.