PAROC Hvac Section AluCoat T

Certification Number	0809-CPR-1016 / Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo. Finland
Designation Code	MW-EN 14303-T8/T9-ST(+)250-WS1-MV2-CL10
Short Description	Stone wool pipe section with reinforced aluminium foil facing. Tape fastening on the longitudinal seam.
Application	Thermal and condensation insulation of pipework and air ducts.

The notified body VTT Expert Services Ltd. (0809) performed and issued the certificates:
Type-Examination (Module B) certificate No. VTT-C-12177-15-17

Surface temperature of the facing must not exceed +80°C (temperature restriction determined in accordance with heat resistance of adhesive).
PAROC stone wool products are capable of withstanding high temperatures. The binder starts to evaporate when its temperature exceeds approximately 200°C. The insulating properties remain unchanged, but the compressive stress weakens. The softening temperature of stone wool products is over 1000°C.

Dimensions

Dimensions		
Thickness	**Inner Diameter**	**Pipe Section Length**
20 - 100 mm	12 - 273 mm	1200 mm
In accordance with EN 13467	In accordance with EN 13467	In accordance with EN 13467

Dimensional Stability		
Property	**Value**	**According to**
Maximum Service Temperature - Dimensional Stability	250 °C	EN 14303:2009+A1:2013 (EN 14707)

Packaging

Package Type	Carton on Pallet, Plastic on Pallet
Single Package Size	Carton 300 x 400 x 1200 mm
Pallet Size	1200 x 1200 mm

Fire properties

Reaction to Fire		
Property	**Value**	**According to**
Reaction to Fire, Euroclass	$A2_L$ - s1, d0	EN 14303:2009+A1:2013 (EN 13501-1)

Continuous Glowing Combustion		
Property	**Value**	**According to**
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013

Other Fire Properties		
Property	**Value**	**According to**
Fire Classification (IMO)	Non-combustible	IMO FTP Code Part 1
Surface Flammability (IMO)	Surface flammability	IMO FTP Code Part 2 and 5
Combustibility	Base product non-combustible	EN ISO 1182

Thermal Properties

Thermal Resistance		
Property	**Value**	**According to**
Thermal Conductivity in 10 °C, λ_{10}	0,033 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 50 °C, λ_{50}	0,037 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 100 °C, λ_{100}	0,044 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 150 °C, λ_{150}	0,053 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 200 °C, λ_{200}	0,064 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 250 °C, λ_{250}	0,077 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Dimensions and Tolerances	T8 for outer diameter < 150 mm, T9 for outer diameter ≥ 150 mm	EN 14303:2009+A1:2013

Moisture Properties

Water Permeability		
Property	**Value**	**According to**
Water Absorption, Short Term WS, W_p	≤ 1 kg/m²	EN 14303:2009+A1:2013 (EN 13472)

Water Vapour Permeability		
Property	**Value**	**According to**
Water Vapour Diffusion Resistance	MV2	EN 14303:2009+A1:2013 (EN 13469)

Rate of Release of Corrosive Substances

Trace Quantities of Water Soluble Ions and the pH Value		
Property	**Value**	**According to**
Chloride Ions, Cl-	< 10 ppm	EN 14303:2009+A1:2013 (EN 13468)

Sound Properties

Acoustic Absorption Index		
Property	**Value**	**According to**
Sound Absorption	NPD	EN 14303:2009+A1:2013 (EN ISO 354)

Emissions

Release of Dangerous Substances to the Indoor Environment		
Property	**Value**	**According to**
Release of Dangerous Substances	NPD	EN 14303:2009+A1:2013

Durability

Durability of Reaction to Fire Against Ageing/Degradation	No change in reaction to fire properties for mineral wool products. The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of the product is related to the organic content, which cannot increase with time.
Durability of Reaction to Fire Against High Temperature	The fire performance of mineral wool does not deteriorate with high temperature. The Euroclass classification of the product is related to the organic content, which remains constant or decreases with high temperature.
Durability of Thermal Resistance Against Ageing/Degradation	Thermal conductivity of mineral wool products does not change with time, experience has shown the fibre structure to be stable and the porosity contains no other gases than atmospheric air.

More Information

PAROC Hvac Section AluCoat T can be used to satisfy the requirements as given in the tables for insulation thickness in BS5422:2009. Paroc can offer help and assistance to customers to confirm that the insulation systems proposed do in fact, achieve the necessary performance criteria. PAROC Hvac Section AluCoat T conforms to BS3958-4.

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