

PAROC Pro Segment WR 140



Certification Number	0809-CPR-1016 / Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo, Finland
Designation Code	MW-EN 14303-T8/T9-ST(+)-680-WS1-CL10
Short Description	Water repellent prefabricated insulation component made of stone wool.
Application	Insulation of pipe elbows in process pipework for higher temperature applications.
Nominal Density	140 kg/m ³

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
50 - 160 mm	114 - 1016 mm
In accordance with EN 13467	In accordance with EN 13467

Dimensional Stability		
Property	Value	According to
Maximum Service Temperature - Dimensional Stability	680 °C	EN 14303:2009+A1:2013 (EN 14707)

Fire properties

Reaction to Fire		
Property	Value	According to
Reaction to Fire, Euroclass	A1 _L	EN 14303:2009 (EN 13501-1)

Continuous Glowing Combustion

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

Thermal Properties

Thermal Resistance

Property	Value	According to
Thermal Conductivity in 50 °C, λ_{50}	0.041 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 100 °C, λ_{100}	0.047 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 200 °C, λ_{200}	0.063 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 300 °C, λ_{300}	0.085 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 400 °C, λ_{400}	0.110 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Dimensions and Tolerances	T8/T9	EN 14303:2009+A1:2013

Moisture Properties

Water Permeability

Property	Value	According to
Water Absorption, Short Term WS, W_p	$\leq 1 \text{ kg/m}^2$	EN 14303:2009+A1:2013 (EN 13472)

Water Vapour Permeability

Property	Value	According to
Water Vapour Diffusion Resistance	NPD	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)

Complies with the requirements set by BS 2972 Part 12 (even after preheated up to 250 °C).

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 Pro Segment WR 140 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 Pro Segment WR 140 conforms to BS3958-4.

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