

## PAROC Pro Segment WR 100



Certification Number	0809-CPR-1016 / Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo, Finland
Designation Code	MW-EN 14303-T8/T9-ST(+)-640-WS1-CL10
Short Description	Water repellent prefabricated insulation component made of stone wool.
Application	Insulation of pipe elbows in industrial process pipework.
Nominal Density	100 kg/m <sup>3</sup>

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	640 °C	EN 14303:2009 +A1:2013 (EN 14707)

### Fire properties

Reaction to Fire		
Property	Value	According to
Reaction to Fire, Euroclass	A1 <sub>L</sub>	EN 14303:2009 (EN 13501-1)

### Thermal Properties

Thermal Resistance		
Property	Value	According to
Thermal Conductivity in 50 °C, $\lambda_{50}$	0.040 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 100 °C, $\lambda_{100}$	0.046 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 200 °C, $\lambda_{200}$	0.064 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 300 °C, $\lambda_{300}$	0.092 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 350 °C, $\lambda_{350}$	0.111 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)

## 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).

## Durability

Durability of Reaction to Fire Against Ageing/Degradation

The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of 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.

Durability of thermal resistance against high temperature

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 100 can be used to satisfy the requirements as given in the tables for Environmental Thickness in BS5422. 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 100 conforms to BS3958-4.

Head Office: PAROC GROUP, P.O. Box 240 (Energiakuja 3), FI-00181 Helsinki, Finland, Tel. +358 46 876 8000, Fax +358 46 876 8002, [www.paroc.com](http://www.paroc.com)

The information in this brochure describes the conditions and technical properties of the disclosed products, valid at the time of publication of this document and until replaced by the next printed or digital version. The latest version of this brochure is always available on the Paroc website. Our information material presents applications for which the functions and technical properties of our products have been approved. However, the information does not mean a commercial guarantee. We do not assume liability of the use of third party components used in the application or the installation of our products. We cannot warrant the suitability of our products if used in an area or conditions which are not provided in our information material. As a result of constant further development of our products we reserve the right to make alterations to our information material at any time. PAROC is a registered trademark of Paroc Group. This data sheet is valid in following countries: United Kingdom.