

## PRODUCT DATASHEET

### PAROC Pro Section 140



Stone wool pipe section.

Thermal insulation in industrial pipework. In ships thermal insulation of pipes in higher temperature.

Also possible to use with facings AluCoat, G4 and G7. See "Facings".

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.

**Certification Number**

0809-CPR-1016 Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo, Finland

**Designation Code**

Type-Examination (Module B) certificate No. VTT-C-12177-15-17

**Nominal Density**

MW-EN 14303-T8/T9-ST(+)-680-WS1-CL10

**Package Type**

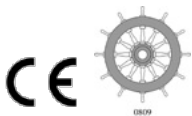
140 kg/m<sup>3</sup>

Cartons or plastic packs on pallet

DIMENSIONS		
THICKNESS	INNER DIAMETER	PIPE SECTION LENGTH
20 - 160 mm	12 - 1016 mm	1200 mm
According to EN 13467	According to EN 13467	According to EN 13467
T8 for outer diameter < 150 mm, T9 for outer diameter ≥ 150 mm		
PROPERTY	VALUE	ACCORDING TO
DIMENSIONAL STABILITY		
Maximum Service Temperature - Dimensional Stability	680 °C	EN 14303:2009+A1:2013 (EN 14707)

## Properties

PROPERTY	VALUE	ACCORDING TO
<b>FIRE PROPERTIES</b>		
Reaction to Fire, Euroclass	A1 <sub>L</sub>	EN 14303:2009+A1:2013 (EN 13501-1)
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013
Fire Classification (IMO)	Non-combustible	IMO 2010 FTP Code Annex 1 Part 1
<b>THERMAL PROPERTIES</b>		
Thermal Conductivity in 50 °C, $\lambda_{50}$	0,041 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 100 °C, $\lambda_{100}$	0,047 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 150 °C, $\lambda_{150}$	0,054 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 200 °C, $\lambda_{200}$	0,063 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 300 °C, $\lambda_{300}$	0,085 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 400 °C, $\lambda_{400}$	0,110 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Dimensions and Tolerances	T8/T9	EN 14303:2009+A1:2013 (EN 823)
<b>MOISTURE PROPERTIES</b>		
Water Absorption, Short Term WS, ( $W_p$ )	$\leq 1 \text{ kg/m}^2$	EN 14303:2009+A1:2013 (EN 13472)
Water Vapour Diffusion Resistance	NPD	EN 14303:2009+A1:2013 (EN 13469)
Chloride Ions, Cl-	< 10 ppm	EN 14303:2009+A1:2013 (EN 13468)
<b>SOUND PROPERTIES</b>		
Sound Absorption	NPD	EN 14303:2009+A1:2013 (EN ISO 354)
<b>EMISSIONS</b>		
Release of Dangerous Substances	NPD	EN 14303:2009+A1:2013
<b>DURABILITY OF FIRE AND THERMAL PROPERTIES</b>		
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.	



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