PAROC Pro Section 140

Certification Number	0809-CPR-1016 / VTT Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland
Designation Code	MW-EN 14303-T8/T9-ST(+)680-WS1-CL10
Short Description	Stone wool pipe section.
Application	Thermal insulation of industrial pipework in higher temperature. In ships thermal insulation of pipes in higher temperature. Also possible to use with facings AluCoat, G4 and G7. See "Facings".

As per:
Type-Examination (Module B) certificate No. VTT-C-11534-15-16 issued by VTT.

Nominal Density	140 kg/m³

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 - 160 mm	12 - 1016 mm	1200/1000 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	680 °C	EN 14303:2009+A1:2013 (EN 14707)

Packaging

Package Type	Cartons or plastic packs on pallet

Fire Properties

Reaction to Fire		
Property	**Value**	**According to**

Reaction to Fire, Euroclass	$A1_L$	EN 14303:2009 (EN 13501-1)

Other Fire Properties		
Property	**Value**	**According to**
Fire Classification (IMO)	Non-combustible	IMO FTP Code Part 1

Thermal Properties

Thermal Resistance		
Property	**Value**	**According to**
Thermal Conductivity (declared) in 50 °C, λ_{50}	0,041 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity (declared) in 100 °C, λ_{100}	0,047 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity (declared) in 150 °C, λ_{150}	0,054 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity (declared) in 200 °C, λ_{200}	0,063 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity (declared) in 250 °C, λ_{250}	0,073 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity (declared) in 300 °C, λ_{300}	0,085 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity (declared) 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	≤ 1 kg/m²	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)