

## 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. Includes 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/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	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 <sub>L</sub>	EN 14303:2009 (EN 13501-1)
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#### 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, $\lambda_{50}$	0,041 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity (declared) in 100 °C, $\lambda_{100}$	0,047 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity (declared) in 150 °C, $\lambda_{150}$	0,054 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity (declared) in 200 °C, $\lambda_{200}$	0,063 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity (declared) in 250 °C, $\lambda_{250}$	0,073 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity (declared) in 300 °C, $\lambda_{300}$	0,085 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity (declared) 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

#### 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 <sup>-</sup>	< 10 ppm	EN 14303:2009+A1:2013 (EN 13468)

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