PAROC Pro Slab 80

Certification Number	0809-CPR-1016 / VTT Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland, 9.6.2014
Designation Code	MW-EN 14303-T5-ST(+)550-WS1-CL10
Short Description	Stone wool slab.
Application	Thermal insulation of industrial ducts, process equipment and the constructions of power plants.
Nominal Density	80 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	
Width x Length	**Thickness**
600 x 1200 mm	50 - 160 mm
In accordance with EN 822	In accordance with EN 823

Dimensional Stability		
Property	**Value**	**According to**
Maximum Service Temperature - Dimensional Stability	550 °C	EN 14303:2009+A1:2013 (EN 14706)

Other Dimensions	Other dimensions available on request.

Packaging

Package Type	Plastic packs on pallet

Fire Properties

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

Thermal Properties

Thermal Resistance		
Property	**Value**	**According to**
Thermal Conductivity (declared) in 50 °C, λ_{50}	0.043 W/mK	EN 14303:2009 (EN 12667)
Thermal Conductivity (declared) in 100 °C, λ_{100}	0.047 W/mK	EN 14303:2009 (EN 12667)
Thermal Conductivity (declared) in 200 °C, λ_{200}	0.065 W/mK	EN 14303:2009 (EN 12667)
Thermal Conductivity (declared) in 300 °C, λ_{300}	0.095 W/mK	EN 14303:2009 (EN 12667)
Thermal Conductivity (declared) in 400 °C, λ_{400}	0.138 W/mK	EN 14303:2009 (EN 12667)
Thermal Conductivity (declared) in 500 °C, λ_{500}	0.196 W/mK	EN 14303:2009 (EN 12667)
Dimensions and Tolerances	T5	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 1609)

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)

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.

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