

## PAROC Pro Slab 80



Certification Number	0809-CPR-1016 / Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo. Finland
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/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	
Width x Length	Thickness
600 x 1200 mm	50 - 120 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 subject to special agreement.

### Packaging

Package Type                              Plastic Packs

## Fire properties

Reaction to Fire		
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 in 50 °C, $\lambda_{50}$	0,043 W/mK	EN 14303:2009 (EN 12667)
Thermal Conductivity in 100 °C, $\lambda_{100}$	0,047 W/mK	EN 14303:2009 (EN 12667)
Thermal Conductivity in 150 °C, $\lambda_{150}$	0,055 W/mK	EN 14303:2009 (EN 12667)
Thermal Conductivity in 200 °C, $\lambda_{200}$	0,065 W/mK	EN 14303:2009 (EN 12667)
Thermal Conductivity in 250 °C, $\lambda_{250}$	0,078 W/mK	EN 14303:2009 (EN 12667)
Thermal Conductivity in 300 °C, $\lambda_{300}$	0.095 W/mK	EN 14303:2009 (EN 12667)
Thermal Conductivity in 400 °C, $\lambda_{400}$	0.138 W/mK	EN 14303:2009 (EN 12667)
Thermal Conductivity in 500 °C, $\lambda_{500}$	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, $W_p$	$\leq 1 \text{ kg/m}^2$	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 <sup>-</sup>	< 10 ppm	EN 14303:2009+A1:2013 (EN 13468)

Complies with the requirements set by BS 2972 Part 12.

## 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 Slab 80 can be used to satisfy the requirements as given in the tables for insulation thickness in BS5422:2009. 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 Slab 80 conforms to BS3958-5.

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