PAROC Pro Wired Mat 680

Certification Number	0809-CPR-1016 / Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo. Finland
Designation Code	MW-EN 14303-T2-ST(+)680-WS1-CL10
Short Description	Stone wool wired mat with galvanized or stainless steel net.
Application	Fire and thermal insulation of cylindrical, conic and flat surfaces.
Nominal Density	100 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**
Width 500/1000 mm, length 2000 - 8000 depending on thickness.	30 - 120 mm
In accordance with EN 822	In accordance with EN 823

Dimensional Stability		
Property	**Value**	**According to**
Maximum Service Temperature - Dimensional Stability	680 °C	EN 14303:2009+A1:2013 (EN 14706)

Packaging

Package Type	Plastic Packs on Pallet

Fire Properties

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

Reaction to Fire, Euroclass	A1	EN 14303:2009+A1:2013 (EN 13501-1)

Continuous Glowing Combustion		
Property	**Value**	**According to**
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013

Thermal Properties

Thermal Resistance		
Property	**Value**	**According to**
Thermal Conductivity in 50 °C, λ_{50}	0,039 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 100 °C, λ_{100}	0,045 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, λ_{200}	0,059 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 300 °C, λ_{300}	0,078 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 400 °C, λ_{400}	0,102 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 500 °C, λ_{500}	0,131 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 600 °C, λ_{600}	0,167 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Dimensions and Tolerances	T2	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)

Water Vapour Permeability		
Property	**Value**	**According to**
Water Vapour Diffusion Resistance	NPD	EN 14303:2009+A1:2013 (EN 12086)

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)

Sound Properties

Acoustic Absorption Index		
Property	**Value**	**According to**
Sound Absorption	NPD	EN 14303:2009+A1:2013 (EN ISO 354)

Mechanical Properties

Compressive Strength		
Property	**Value**	**According to**
Compressive Stress at 10 % deformation CS(10), σ_{10}	NPD	EN 14303:2009+A1:2013 (EN 826)

Emissions

Release of Dangerous Substances to the Indoor Environment

Property	Value	According to
Release of Dangerous Substances	NPD	EN 14303:2009+A1:2013

Durability

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.

Facings

Facing Material	Steel wire net. Stainless steel wire net.

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