

PRODUCT DATASHEET



PAROC Pro Wired Mat 550

Stone wool wired mat with galvanized net. Even available with stainless steel net and/or sewing wire.

Thermal insulation of cylindrical, conic and flat surfaces.

Maximum Service Temperature

In Compliance with ASTM C547 1400 °F (760 °C) (ASTM C447)
 Maximum temperature exposure of the galvanized mesh: 300°C. For higher temperatures we recommend choosing stainless steel (W2) or black iron mesh (W1).
 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.

Certification Number

0809-CPR-1016 Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo, Finland

Designation Code

MW-EN 14303-T2-ST(+)-600-WS1-CL10

Nominal Density

70 kg/m³

Package Type

Plastic Packs on Pallet

DIMENSIONS		
WIDTH X LENGTH		THICKNESS
Width 500/1000 mm, length 2000 - 8000 depending on thickness. mm		30 - 120 mm
According to EN 822		According to EN 823
PROPERTY	VALUE	ACCORDING TO
DIMENSIONAL STABILITY		
Maximum Service Temperature - Dimensional Stability	600 °C	EN 14303:2009+A1:2013 (EN 14706)

Properties

PROPERTY	VALUE	ACCORDING TO
FIRE PROPERTIES		
Reaction to Fire, Euroclass	A1	EN 14303:2009+A1:2013 (EN 13501-1)
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013
THERMAL PROPERTIES		
Thermal Conductivity in 10 °C, λ_{10}	0,037 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 50 °C, λ_{50}	0,042 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 100 °C, λ_{100}	0,049 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 150 °C, λ_{150}	0,057 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, λ_{200}	0,067 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 300 °C, λ_{300}	0,093 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 400 °C, λ_{400}	0,126 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 500 °C, λ_{500}	0,166 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 600 °C, λ_{600}	0,215 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Dimensions and Tolerances	T2	EN 14303:2009+A1:2013 (EN 823)
MOISTURE PROPERTIES		
Water Absorption, Short Term WS, (W_p)	$\leq 1 \text{ kg/m}^2$	EN 14303:2009+A1:2013 (EN 1609)
Water Vapour Diffusion Resistance	NPD	EN 14303:2009+A1:2013 (EN 12086)
Chloride Ions, Cl ⁻	< 10 ppm	EN 14303:2009+A1:2013 (EN 13468)
SOUND PROPERTIES		
Sound Absorption	NPD	EN 14303:2009+A1:2013 (EN ISO 354)
MECHANICAL PROPERTIES		
Compressive Stress at 10 % deformation CS(10), σ_{10}	NPD	EN 14303:2009+A1:2013 (EN 826)
OTHER PROPERTIES		
Metal Mesh Covered Mineral Fiber Blankets	Type IVA	ASTMC592
Surface Burning Characteristic	Flame Spread index 0 Smoke Development Index 10	UL 723 ASTM E84 and CAN/ULC S102
Maximum Service Temperature	In Compliance with ASTM C592 1256 °F (680 °C)	ASTMC447
Thickness	In Compliance with ASTM C592	ASTMC167
Density	100 kg/m ³	ASTMC167
Linear Shrinkage, length and width	< 1,0% & 1256 °F (680 °C)	ASTMC356
Water Vapor Sorption	< 0,5% by weight at 102 °F (49 °C), 95% RH	ASTMC1104
LOI and Shot Content	Results fall with acceptable limits	ASTMC1335
Chemical Analysis for CL ⁻ , F ⁻ , Na ⁺ , SiO ₃	Results fall with acceptable limits	ASTMC795 and ASTM C871
RtF	Noncombustible	ISO 1182
	According to below table	ASTMC177
EMISSIONS		
Release of Dangerous Substances	NPD	EN 14303:2009+A1:2013
DURABILITY OF FIRE AND THERMAL PROPERTIES		
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.	

Appearance

Facing Material	Galvanized wire mesh and sewing wire.
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Head Office: PAROC GROUP, P.O. Box 240 (Energiakuja 3), FI-00181 Helsinki Finland, Tel. +358 46 876 8000, www.paroc.com

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