

PRODUCT DATASHEET



PAROC Pro Lamella Mat AluCoat

Stone wool lamella mat with a reinforced aluminium foil facing.

Thermal and condensation insulation of air ducts and other ventilation ducts and equipment.

Certification Number

Surface temperature of the facing must not exceed 80°C (temperature restriction determined in accordance with heat resistance adhesive).

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.

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

Designation Code

Type-Examination (Module B) certificate No. VTT-C-11535-15-16

Nominal Density

MW-EN 14303-T4-ST(+)-500-WS1-MV2-CL10

Package Type

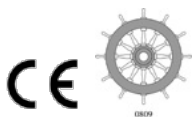
50 kg/m³

Plastic Packs on Pallet

DIMENSIONS		
WIDTH X LENGTH		THICKNESS
Width 1000 or 500 mm. Length 2500 - 10000 mm depending on thickness.		20 - 120 mm
According to EN 822		According to EN 823
PROPERTY	VALUE	ACCORDING TO
DIMENSIONAL STABILITY		
Maximum Service Temperature - Dimensional Stability	500 °C	EN 14303:2009+A1:2013 (EN 14707)

Properties

PROPERTY	VALUE	ACCORDING TO
FIRE PROPERTIES		
Reaction to Fire, Euroclass	A1	EN 14303:2009 (EN 13501-1)
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013
Fire Classification (IMO)	Non-Combustible	IMO FTP Code Part 1
Surface Flammability (IMO)	Low flame-spread characteristics	IMO FTP Code Part 2 and 5
THERMAL PROPERTIES		
Thermal Conductivity in 10 °C, λ_{10}	0.039 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 50 °C, λ_{50}	0.045 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 100 °C, λ_{100}	0.055 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, λ_{200}	0.081 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 300 °C, λ_{300}	0.120 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Dimensions and Tolerances	T4	EN 14303:2009+A1:2013
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	M/2	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)
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.	



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