

PAROC Marine Slab 220



Certification Number	0809-CPR-1016 / Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo. Finland
Designation Code	MW-EN 14303-T5-ST(+)-660-WS1-CL10
Short Description	Stone wool slab. Also possible to use with facings AluCoat, G1, G2, G3, G4, G7, N3 and N5. See "Facings".
Application	Fire protection on ship equipment.

The notified body Eurofins Expert Services Ltd. (0809) performed and issued the certificates: Type-Examination (Module B) certificate No. EUFI29-20002519-MED

Nominal Density 220 kg/m³

Maximum service temperature for PAROC Marine Slab 220 is 660°C. 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	10 - 25 mm
In accordance with EN 822	In accordance with EN 823

Dimensional Stability		
Property	Value	According to
Maximum Service Temperature - Dimensional Stability	660 °C	EN 14303:2009+A1:2013 (EN 14706)

Other Dimensions Other dimensions available on request.

Packaging

Package Type Plastic packs on pallet
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Fire Properties

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

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

Other Fire Properties		
Property	Value	According to
Fire Classification (IMO)	Non-combustible	IMO FTP 2010 Code Part 1

Thermal Properties

Thermal Resistance		
Property	Value	According to
Thermal Conductivity in 50 °C, λ_{50}	0.047 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 100 °C, λ_{100}	0.050 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, λ_{200}	0.058 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 300 °C, λ_{300}	0.071 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 400 °C, λ_{400}	0.087 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 500 °C, λ_{500}	0.107 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 600 °C, λ_{600}	0.131 W/mK	EN 14303:2009+A1:2013 (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)

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)

Chloride content not declared for products produced in Parainen.

Sound Properties

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

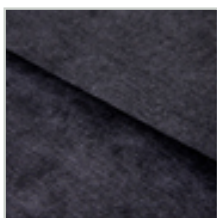
Mechanical Properties

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

Facings



N3



N5

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