PAROC Fire Steel Protect AluCoat

Certification Number	0809-CPR-1015 / Eurofins Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland
Designation Code	MW-EN13162-T5-DS(70,-)-WS-WL(P)-Z(6,00)
Short Description	Very rigid, stone wool slab with high fire performance.
Application	Fire insulation of steel structures.
Nominal Density	160 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**
600 x 1200 mm	20 mm
600 x 1200 mm	25 mm
600 x 1200 mm	30 mm
600 x 1200 mm	40 mm
600 x 1200 mm	50 mm
600 x 1200 mm	60 mm
mm	In accordance with EN 823
In accordance with EN 822	

Dimensional Stability		
Property	**Value**	**According to**
Dimensional Stability at Specified Temperature, DS(70,-)	≤ 1 %	EN 13162:2012 + A1:2015 (EN 1604)

Packaging

Package Type	Plastic Packages on a Pallet

Fire Properties

Reaction to Fire		
Property	**Value**	**According to**
Reaction to Fire, Euroclass	A1	EN 13162:2012 + A1:2015 (EN 13501-1)

Continuous Glowing Combustion		
Property	**Value**	**According to**
Continuous Glowing Combustion	NPD	EN 13162:2012 + A1:2015

Other Fire Properties		
Property	**Value**	**According to**
Combustibility	Non-combustible	EN ISO 1182

Special structures may require a separate fire tests

Thermal Properties

Thermal Resistance		
Property	**Value**	**According to**
Thermal Conductivity λ_D	0,038 W/mK	EN 13162:2012 + A1:2015

Direct Airborne Sound Insulation Index		
Property	**Value**	**According to**
Air Flow Resistivity AF_R	NPD	EN 13162:2012 + A1:2015 (EN 29053)

Moisture Properties

Water Permeability		
Property	**Value**	**According to**
Water Absorption, Short Term WS, W_p	≤ 1 kg/m²	EN 13162:2012 + A1:2015 (EN 1609)
Water Absorption, Long Term WL(P), W_{lp}	≤ 3 kg/m²	EN 13162:2012 + A1:2015 (EN 12087)

Water Vapour Permeability		
Property	**Value**	**According to**
Water Vapour Resistance Z	6,00 m²hPa/mg	EN 13162:2012+A1:2015
Water Vapour Transmission MU, µ	NPD	EN 13162:2012 + A1:2015

Sound Properties

Acoustic Absorption Index		
Property	**Value**	**According to**
Sound Absorption	NPD	EN 13162:2012 + A1:2015 (EN ISO 354)

Impact Noise Transmission Index (for Floors)		
Property	**Value**	**According to**
Dynamic Stiffness SD	NPD	EN 13162:2012 + A1:2015 (EN 29052-1)

Mechanical Properties

Compressive Strength		
Property	**Value**	**According to**
Compressive Stress at 10 % deformation CS(10), σ_{10}	NPD	EN 13162:2012 + A1:2015 (EN 826)
Compressive Strength CS(Y), σ_m	NPD	EN 13162:2012 + A1:2015 (EN 826)
Point Load PL(5)	NPD	EN 13162:2012 + A1:2015 (EN 12340)

Property	**Value**	**According to**
Compressibility CP	NPD	EN 13162:2012 + A1:2015

Tensile/Flexural Strength		
Property	**Value**	**According to**
Tensile Strength Perpendicular to Faces TR, σ_{mt}	NPD	EN 13162:2012 + A1:2015 (EN 1607)

Emissions

Release of Dangerous Substances to the Indoor Environment		
Property	**Value**	**According to**
Release of Dangerous Substances	NPD	EN 13162:2012 + A1:2015

Durability

Durability of Compressive Strength against Ageing/Degradation		
Property	**Value**	**According to**
Compressive Creep CC(i1/i2/y)σ_c, X_{ct}	NPD	EN 13162:2012 + A1:2015 (EN 1606)

Facings

Facing Material	Aluminium foil