

PAROC FPS 17

Fire protection slab



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)-MU1
Short Description	Very rigid, stone wool slab with high fire performance.
Application	Fire insulation of steel structures, chimneys, doors, furnaces, ovens, etc.

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 - 120 mm
600 x 2400 mm	20 - 120 mm
1200 x 1200 mm	20 - 120 mm
1200 x 2400 mm	20 - 120 mm
In accordance with EN 822	In accordance with EN 823

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 or Loose Product on a Pallet
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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 Resistance	See attachment	EN 13162:2012 + A1:2015
Thermal Conductivity λ_D	0,038 W/mK	EN 13162:2012 + A1:2015
Thickness Tolerance, T	T5	EN 13162:2008 (EN 823)

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 W_S , W_p	$\leq 1 \text{ kg/m}^2$	EN 13162:2012 + A1:2015 (EN 1609)
Water Absorption, Long Term $W_L(P)$, W_{lp}	$\leq 3 \text{ kg/m}^2$	EN 13162:2012 + A1:2015 (EN 12087)

Water Vapour Permeability		
Property	Value	According to
Water Vapour Resistance Z	NPD	EN 13162:2012+A1:2015
Water Vapour Transmission MU , μ	1	EN 13162:2012 + A1:2015 (EN 12086)

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)
Compressibility	NPD	EN 13162:2012 + A1:2015

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)

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)

Durability of Reaction to Fire Against Heat, Weathering, Ageing/Degradation
 The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of product is related to the organic content, which cannot increase with time.

Durability of Thermal Resistance Against Heat, Weathering, 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.

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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