PAROC ROS 30g

Roof 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,-)-CS(10)30-PL(5)250-WS-WL(P)-MU1
Short Description	Rigid, fire safe stone wool slab with high thermal insulation performance and load bearing capacity. Ventilation grooves on the surface of the slab.
Application	Thermal insulation in flat roofs with normal load. It should be placed as an intermediate layer in the construction with the grooves facing upwards underneath the roof board. The ventilation grooves in the slab enables a constant drying of the insulation and structure.

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**
1200 x 1800 mm	80 - 200 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)

Other Dimensions	Other sizes available on request.

Packaging

Package Type	Plastic Package, Plastic Packages on a Pallet or Slabs on a Wooden 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

Flat roofs insulated with stone wool means a better insurance against big catastrophes at fire.

Thermal Properties

Thermal Resistance		
Property	**Value**	**According to**
Thermal Resistance	See attachment	EN 13162:2012 + A1:2015
Thermal Conductivity λ_D	0,036 W/mK	EN 13162:2012 + A1:2015 (EN 13162)
Thickness Tolerance, T	T5	EN 13162:2012 + A1:2015 (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 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	NPD	EN 13162:2012+A1:2015
Water Vapour Transmission MU, μ	1	EN 13162:2012 + A1:2015 (EN 12086)

Flat roofs insulated by stone wool can keep moisture and dry out when the circumstances in climate is available.

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}	30 kPa	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)	250 N	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)

This product is possible to walk on, but it shall be covered by a board or a tougher slab.

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.

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