

## 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

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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	<a href="#">See attachment</a>	EN 13162:2012 + A1:2015
Thermal Conductivity $\lambda_D$	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 $WS, W_p$	$\leq 1 \text{ kg/m}^2$	EN 13162:2012 + A1:2015 (EN 1609)
Water Absorption, Long Term $WL(P), W_{lp}$	$\leq 3 \text{ kg/m}^2$	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 $MU, \mu$	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		
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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), $\sigma_{10}$	30 kPa	EN 13162:2012 + A1:2015 (EN 826)
Compressive Strength CS(Y), $\sigma_m$	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, $\sigma_{mt}$	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 $CC(i1/i2/y)\sigma_c, X_{ct}$	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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