

## PRODUCT DATASHEET

# PAROC ROS 30g



### Roof slab

Rigid, fire safe stone wool slab with high thermal insulation performance and load bearing capacity. Ventilation grooves on the surface of the slab.

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.

<b>Certification Number</b>	0809-CPR-1015 Eurofins Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland
<b>Designation Code</b>	MW-EN13162-T5-DS(70,-)-CS(10)30-PL(5)250-WS-WL(P)-MU1
<b>Package Type</b>	Plastic Package, Plastic Packages on a Pallet or Slabs on a Wooden Pallet

DIMENSIONS	
WIDTH X LENGTH	THICKNESS
1200 x 1800 mm	80 - 200 mm
According to EN 822	According to EN 823
Other Dimensions: Other sizes available on request.	

PROPERTY	VALUE	ACCORDING TO
<b>DIMENSIONAL STABILITY</b>		
Dimensional Stability at Specified Temperature, DS(70,-)	≤ 1 %	EN 13162:2012 + A1:2015 (EN 1604)

## Properties

PROPERTY	VALUE	ACCORDING TO
<b>FIRE PROPERTIES</b>		
Reaction to Fire, Euroclass	A1	EN 13162:2012 + A1:2015 (EN 13501-1)
Continuous Glowing Combustion	NPD	EN 13162:2012 + A1:2015
Combustibility	Non-combustible	EN ISO 1182
Flat roofs insulated with stone wool means a better insurance against big catastrophes at fire.		
<b>THERMAL PROPERTIES</b>		
Thermal Resistance	<a href="https://paroc.com/thermal-resistance-table">https://paroc.com/thermal-resistance-table</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)
Air Flow Resistivity $A_{FR}$	NPD	EN 13162:2012 + A1:2015 (EN 29053)
<b>MOISTURE PROPERTIES</b>		
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 Transmission $MU, \mu$	1	EN 13162:2012 + A1:2015 (EN 12086)
Water Vapour Resistance Z	NPD	EN 13162:2012+A1:2015
Flat roofs insulated by stone wool can keep moisture and dry out when the circumstances in climate is available.		
<b>SOUND PROPERTIES</b>		
Sound Absorption	NPD	EN 13162:2012 + A1:2015 (EN ISO 354)
Dynamic Stiffness SD	NPD	EN 13162:2012 + A1:2015 (EN 29052-1)
<b>MECHANICAL PROPERTIES</b>		
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)
Tensile Strength Perpendicular to Faces $TR, \sigma_{mt}$	NPD	EN 13162:2012 + A1:2015 (EN 1607)
Compressibility CP	NPD	EN 13162:2012 + A1:2015
This product is possible to walk on, but it shall be covered by a board or a tougher slab.		
<b>EMISSIONS</b>		
Release of Dangerous Substances	NPD	EN 13162:2012 + A1:2015
<b>DURABILITY OF COMPRESSIVE STRENGTH AGAINST AGEING/DEGRADATION</b>		
Compressive Creep $CC(i_1/i_2/y)\sigma_c X_{ct}$	NPD	EN 13162:2012 + A1:2015 (EN 1606)
<b>DURABILITY OF FIRE AND THERMAL PROPERTIES</b>		
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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