

PRODUCT DATASHEET



PAROC ROS 70

Roof slab

Very rigid, fire safe stone wool slab with high thermal insulation performance and load bearing capacity.

Thermal insulation in flat roofs with high load. It should be placed either as an intermediate layer or in the bottom of the construction.

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.

Certification Number	0809-CPR-1015 Eurofins Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland
Designation Code	MW-EN13162-T5-DS(70,90)-CS(10)70-PL(5)650-TR(10)-WS-WL(P)-MU1
Package Type	Plastic Package, Plastic Packages on a Pallet or Loose Product on a Pallet
Package on Request	Loose Product on a Stone Wool Pallet, size 1200 x 1800 x 1200/2300 (w x l x h)

DIMENSIONS		
WIDTH X LENGTH	THICKNESS	
1200 x 1800 mm	40 - 120 mm	
According to EN 822	According to EN 823	
Other Dimensions: Other sizes available on request.		
1200 x 600, 1200 x 900, 1800 x 600 mm is suitable for all products.		
PROPERTY	VALUE	ACCORDING TO
DIMENSIONAL STABILITY		
Dimensional Stability under Specified Temperature and Humidity Conditions, DS(70,90)	≤ 1 %	EN 13162:2012 + A1:2015 (EN 1604)

Properties

PROPERTY	VALUE	ACCORDING TO
FIRE PROPERTIES		
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.		
THERMAL PROPERTIES		
Thermal Resistance	https://www.paroc.com/~media/Files/Solutions%20and%20Products/thermal-resistance-table-INT.ashx	EN 13162:2012 + A1:2015
Thermal Conductivity λ_D	0,039 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)
MOISTURE PROPERTIES		
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 , μ	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.		
SOUND PROPERTIES		
Sound Absorption	NPD	EN 13162:2012 + A1:2015 (EN ISO 354)
Dynamic Stiffness SD	NPD	EN 13162:2012 + A1:2015 (EN 29052-1)
Compressibility	NPD	EN 13162:2012 + A1:2015
MECHANICAL PROPERTIES		
Compressive Stress at 10 % deformation $CS(10)$, σ_{10}	70 kPa	EN 13162:2012 + A1:2015 (EN 826)
Compressive Strength $CS(Y)$, σ_m	NPD	EN 13162:2012 + A1:2015 (EN 826)
Point Load $PL(5)$	650 N	EN 13162:2012 + A1:2015 (EN 12340)
Tensile Strength Perpendicular to Faces TR , σ_{mt}	10 kPa	EN 13162:2012 + A1:2015 (EN 1607)
EMISSIONS		
Release of Dangerous Substances	NPD	EN 13162:2012 + A1:2015
DURABILITY OF COMPRESSIVE STRENGTH AGAINST AGEING/DEGRADATION		
Compressive Creep $CC(i_1/i_2/y)\sigma_c X_{ct}$	NPD	EN 13162:2012 + A1:2015 (EN 1606)
DURABILITY OF FIRE AND THERMAL PROPERTIES		
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

The information in this brochure describes the conditions and technical properties of the disclosed products, valid at the time of publication of this document and until replaced by the next printed or digital version. The latest version of this brochure is always available on the Paroc website. Our information material presents applications for which the functions and technical properties of our products have been approved. However, the information does not mean a commercial guarantee. We do not assume liability of the use of third party components used in the application or the installation of our products. We cannot warrant the suitability of our products if used in an area or conditions which are not provided in our information material. As a result of constant further development of our products we reserve the right to make alterations to our information material at any time. PAROC is a registered trademark of Paroc Group. This data sheet is valid in following countries: international use (general information).