PRODUCT DATASHEET

PAROC ROS 30

Roof slab

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

Thermal insulation in flat roofs with normal 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,-)-CS(10)30-PL(5)250-WS-WL(P)-MU1

Package Type Plastic Package, Plastic Packages on a Pallet or Loose Product on a Wooden / Stone Wool Pallet

DIMENSIONS	
WIDTH X LENGTH	**THICKNESS**
1200 x 1800 mm	40 - 180 mm
According to EN 822	According to EN 823
Other Dimensions: Other sizes available on request.	

PROPERTY	VALUE	ACCORDING TO
DIMENSIONAL STABILITY		
Dimensional Stability at Specified Temperature, DS(70,-)	≤ 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://paroc.com/thermal-resistance-table	EN 13162:2012 + A1:2015
Thermal Conductivity λ_D	0,036 W/mK	EN 13162:2012 + A1:2015
Thickness Tolerance, T	T5	EN 13162:2012 + A1:2015 (EN 823)
Air Flow Resistivity AF_R	NPD	EN 13162:2012 + A1:2015 (EN 29053)
MOISTURE PROPERTIES		
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 Transmission MU, μ	1	EN 13162:2012 + A1:2015 (EN 12086)
Water Vapour Resistance Z	NPD	EN 13162:2012+A1:2015
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)
MECHANICAL PROPERTIES		
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)
Tensile Strength Perpendicular to Faces TR, σ_{mt}	NPD	EN 13162:2012 + A1:2015 (EN 1607)
Compressibility CP	NPD	EN 13162:2012 + A1:2015
EMISSIONS		
Release of Dangerous Substances	NPD	EN 13162:2012 + A1:2015
DURABILITY OF COMPRESSIVE STRENGTH AGAINST AGEING/DEGRADATION		
Compressive Creep CC($i_1/i_2/y$)σ_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.	

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