

PRODUCT DATASHEET

PAROC WAS 50t



Wall slab

Semi-rigid, fire safe stone wool with high thermal insulation performance. It is faced with a natural coloured glass tissue.

Thermal insulation in external walls, curtain walls etc in new and old buildings. It could be used in one layer or in a two layer-system in combination with flexible insulation. A two-layer system creates a continuous thermal insulation layer which improve the thermal performance.

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-T4-DS(70,-)-WS-WL(P)-MU1-AFr10
Package Type Plastic Package or Plastic Packages on a Pallet

DIMENSIONS	
WIDTH X LENGTH	THICKNESS
600 x 1200 mm	50 - 150 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
THERMAL PROPERTIES		
Thermal Resistance	https://paroc.com/thermal-resistance-table	EN 13162:2012 + A1:2015
Thermal Conductivity λ_D	0,034 W/mK	EN 13162:2012 + A1:2015
Thickness Tolerance, T	T4	EN 13162:2012 + A1:2015 (EN 823)
Air Flow Resistivity A_{FR}	10 kPa*s/m ²	EN 13162:2012 + A1:2015 (EN 29053)
Air Permeability Coefficient, l	75 x 10 ⁻⁶ m ³ /m ² Pa*s	EN 29053
The air permeability [*10 ⁻⁶ m ³ /Pa*s] is an indicative average value. The declared value in DoP is the airflow resistivity A_{FR} [kPa*s/m ²], which is the minimum value.		
MOISTURE PROPERTIES		
Water Absorption, Short Term W_S , (W_p)	≤ 1 kg/m ²	EN 13162:2012 + A1:2015 (EN 1609)
Water Absorption, Long Term $W_L(P)$, (W_p)	≤ 3 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
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+A1:2015
MECHANICAL PROPERTIES		
Compressive Stress at 10 % deformation $CS(10)$, σ_{10}	NPD	EN 13162:2012 + A1:2015 (EN 826)
Compressive Strength $CS(Y)$, σ_m	NPD	EN 13162:2012 + A1:2015 (EN 826)
Point Load $PL(5)$	NPD	EN 13162:2012 + A1:2015 (EN 12340)
Tensile Strength Perpendicular to Faces TR, σ_{mt}	NPD	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.	

Appearance

Facing Material	Glass fibre tissue
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