

## 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**  
**Designation Code**  
**Package Type**

0809-CPR-1015 Eurofins Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland  
MW-EN13162-T4-DS(70,-)-WS-WL(P)-MU1  
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
<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
<b>THERMAL PROPERTIES</b>		
Thermal Resistance	<a href="https://www.paroc.com/~media/Files/Solutions%20and%20Products/thermal-resistance-table-INT.ashx">https://www.paroc.com/~media/Files/Solutions%20and%20Products/thermal-resistance-table-INT.ashx</a>	EN 13162:2012 + A1:2015
Thermal Conductivity $\lambda_D$	0,034 W/mK	EN 13162:2012 + A1:2015
Thickness Tolerance, T	T4	EN 13162:2012 + A1:2015 (EN 823)
Air Flow Resistivity $A_{FR}$	NPD	EN 13162:2012 + A1:2015 (EN 29053)
Air Permeability Coefficient, $l$	$50 \times 10^{-6} \text{ m}^2/\text{Pa}\cdot\text{s}$	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
<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)
Compressibility	NPD	EN 13162:2012 + A1:2015+A1:2015
<b>MECHANICAL PROPERTIES</b>		
Compressive Stress at 10 % deformation $CS(10)$ , $\sigma_{10}$	NPD	EN 13162:2012 + A1:2015 (EN 826)
Compressive Strength $CS(Y)$ , $\sigma_m$	NPD	EN 13162:2012 + A1:2015 (EN 826)
Point Load $PL(5)$	NPD	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
<b>EMISSIONS</b>		
Release of Dangerous Substances	NPD	EN 13162:2012 + A1:2015
<b>DURABILITY OF COMPRESSIVE STRENGTH AGAINST AGEING/DEGRADATION</b>		
Compressive Creep $CC((1/12/y)\sigma_c X_{ct})$	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.	

## Appearance

Facing Material	Glass fibre tissue
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