

PRODUCT DATASHEET

PAROC Natura Lana

Flexible slab

Carbon neutral insulation slab made of non-combustible stonewool.



PAROC Natura Lana is our first carbon neutral insulation slab made of non-combustible stone wool in lambda class 036. PAROC Natura Lana is designed for use in a variety of applications in energy-efficient green buildings especially in frame constructions and pitched roofs. Excellent durability, moisture, fire and sound properties are always part of Paroc insulation performance. The slab is easy and fast to install between studs as it keeps its form and stays in place without additional support. The greenhouse gas emissions from PAROC Natura Lana's production are very low (GWP (A1-A3) = 0.59 kg CO₂/m², R = 1). These, as well as the greenhouse gas emissions of the product's life cycle, have been fully offset through certified (Gold Standard) voluntary emissions trading projects. PAROC Natura Lana is the perfect choice when you want to reduce your building's carbon footprint.

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-T2-DS(70,-)-WS-WL(P)-MU1-AFr10
Big Pack

DIMENSIONS		
WIDTH X LENGTH	THICKNESS	
565 x 1170 mm	45 - 220 mm	
610 x 1220 mm	45 - 220 mm	
According to EN 822	According to EN 823	
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	0,036 W/mK	EN 13162:2012 + A1:2015
Thickness Tolerance, T	T2	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	$\sim 80 \times 10^{-6} \text{ m}^2/\text{Pa*s}$	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_p)	$\leq 3 \text{ kg/m}^2$	EN 13162:2012 + A1:2015 (EN 12087)
Water Vapour Transmission MJ, 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
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
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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