

PRODUCT DATASHEET



PAROC Fire Steel Protect

Very rigid, stone wool slab with high fire performance.

Fire insulation of steel structures.

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,-)-WS-WL(P)-MU1
Nominal Density	160 kg/m ³
Package Type	Plastic Packages on a Pallet

DIMENSIONS	
WIDTH X LENGTH	THICKNESS
600 x 1200 mm	20 mm
600 x 1200 mm	25 mm
600 x 1200 mm	30 mm
600 x 1200 mm	40 mm
600 x 1200 mm	50 mm
600 x 1200 mm	60 mm
mm	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
Special structures may require a separate fire tests		
THERMAL PROPERTIES		
Thermal Conductivity λ_D	0,038 W/mK	EN 13162:2012 + A1:2015
Thickness Tolerance, T	T5	EN 13162:2012 + A1:2015
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_p)	$\leq 3 \text{ kg/m}^2$	EN 13162:2012 + A1:2015 (EN 12087)
Water Vapour Transmission MU , μ	1	EN 13162:2012 + A1:2015
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 (EN 1606)
DURABILITY OF FIRE AND THERMAL PROPERTIES		
Durability of Reaction to Fire Against Ageing/Degradation	No change in reaction to fire properties for mineral wool products. The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of the product is related to the organic content, which cannot increase with time.	
Durability of Reaction to Fire Against High Temperature	The fire performance of mineral wool does not deteriorate with high temperature. The Euroclass classification of the product is related to the organic content, which remains constant or decreases with high temperature.	
Durability of Thermal Resistance Against 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).