

## PRODUCT DATASHEET



### PAROC Fire Steel Protect N1AluCoat

Very rigid, stone wool slab with high fire performance. It is faced with a natural coloured glass tissue and glass fibre reinforced aluminium foil.

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.

<b>Certification Number</b>	0809-CPR-1015 Eurofins Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland
<b>Designation Code</b>	MW-EN13162-T5-DS(70,-)-WS-WL(P) -Z(6,00)
<b>Nominal Density</b>	160 kg/m <sup>3</sup>
<b>Package Type</b>	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
According to EN 822	According to EN 823

PROPERTY	VALUE	ACCORDING TO
<b>DIMENSIONAL STABILITY</b>		
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	Base product non-combustible	EN ISO 1182
Fire protecting special applications. Normally a testing is needed for the specific product.		
<b>THERMAL PROPERTIES</b>		
Thermal Conductivity $\lambda_D$	0,038 W/mK	EN 13162:2012 + A1:2015
Thickness Tolerance, T	T5	EN 13162:2012 + A1:2015
Air Flow Resistivity $AF_R$	NPD	EN 13162:2012 + A1:2015 (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 $W_L(P), (W_p)$	$\leq 3 \text{ kg/m}^2$	EN 13162:2012 + A1:2015 (EN 12087)
Water Vapour Transmission $MU, \mu$	NPD	EN 13162:2012 + A1:2015
Water Vapour Resistance Z	6,00 $\text{m}^2\text{hPa/mg}$	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
<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 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.	

## Appearance

Facing Material	Aluminium and glass fibre tissue
-----------------	----------------------------------



Head Office: PAROC GROUP, P.O. Box 240 (Energiaukuja 3), FI-00181 Helsinki, Finland, Tel. +358 46 876 8000, Fax +358 46 876 8002, [www.paroc.com](http://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: United Kingdom.