

## PRODUCT DATASHEET



### PAROC GRS 20

#### Ground slab

Rigid, fire safe stone wool slab with high thermal insulation, load bearing and water repellent performance.

Thermal insulation of basement walls and ground concrete floors. Also serves as an efficient capillary break.

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-T5-DS(70,-)-CS(10)20-PL(5)150-WS-WL(P)-MU1  
Plastic Package or Loose Product on a Pallet

DIMENSIONS		
WIDTH X LENGTH	THICKNESS	
1200 x 600 mm	30 - 120... 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+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://paroc.com/thermal-resistance-table">https://paroc.com/thermal-resistance-table</a>	EN 13162:2012 + A1:2015
Thermal Conductivity $\lambda_D$	0,035 W/mK	EN 13162:2012 + A1:2015 (EN 13162)
Thickness Tolerance, T	T5	EN 13162:2012 + A1:2015 (EN 823)
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 $MJ, \mu$	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
<b>MECHANICAL PROPERTIES</b>		
Compressive Stress at 10 % deformation $CS(10), \sigma_{10}$	20 kPa	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)	150 N	EN 13162:2012 + A1:2015 (EN 12340)
Tensile Strength Perpendicular to Faces TR, $\sigma_{mt}$	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 $CC(i_1/i_2/y)\sigma_c, X_{ct}$	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.	



Head Office: PAROC GROUP, P.O. Box 240 (Energiakuja 3), FI-00181 Helsinki Finland, Tel. +358 46 876 8000, [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: international use (general information).