

## PRODUCT DATASHEET



### PAROC Pro Roof Slab (WR) 50 kPa

Stone wool slab with outstanding water repellence.

Thermal insulation of tank tops.

The superior water repellency of PAROC WR products at elevated temperatures reduces the risk of corrosion under insulation. PAROC WR products are also safe to use in combination with painting operations: PAROC WR products are 3rd party tested and certified according to the most stringent class of the LABS conformity (paint wetting impairment) standard, VDMA 24364.

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-1016 Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo, Finland
<b>Designation Code</b>	MW-EN 14303-T5-CS(10)50-ST(+700-WS1-CL10
<b>Nominal Density</b>	150 kg/m <sup>3</sup>
<b>Package Type</b>	Plastic packs on pallet
<b>Package on Request</b>	Slabs on pallet

DIMENSIONS		
WIDTH X LENGTH	THICKNESS	
600 x 1200 mm	30 - 140 mm	
According to EN 822	According to EN 823	
Other Dimensions: Other dimensions available on request.		
PROPERTY	VALUE	ACCORDING TO
DIMENSIONAL STABILITY		
Maximum Service Temperature - Dimensional Stability	700 °C	EN 14303:2009+A1:2013 (EN 14706)

## Properties

PROPERTY	VALUE	ACCORDING TO
<b>FIRE PROPERTIES</b>		
Reaction to Fire, Euroclass	A1	EN 14303:2009+A1:2013 (EN 13501-1)
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013
<b>THERMAL PROPERTIES</b>		
Thermal Conductivity in 10 °C, $\lambda_{10}$	0,037 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 50 °C, $\lambda_{50}$	0,041 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 100 °C, $\lambda_{100}$	0,046 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 150 °C, $\lambda_{150}$	0,052 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, $\lambda_{200}$	0,059 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 300 °C, $\lambda_{300}$	0,077 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 400 °C, $\lambda_{400}$	0,099 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 500 °C, $\lambda_{500}$	0,128 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 600 °C, $\lambda_{600}$	0,162 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 700 °C, $\lambda_{700}$	0,200 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Dimensions and Tolerances	T5	EN 14303:2009+A1:2013 (EN 823)
<b>MOISTURE PROPERTIES</b>		
Water Absorption, Short Term WS, ( $W_p$ )	$\leq 1 \text{ kg/m}^2$	EN 14303:2009+A1:2013 (EN 1609)
Water Vapour Diffusion Resistance	NPD	EN 14303:2009+A1:2013 (EN 12086)
Chloride Ions, Cl-	< 10 ppm	EN 14303:2009+A1:2013 (EN 13468)
PAROC WR Slabs are providing very low water absorption at elevated temperatures according to EN 1609.		
<b>SOUND PROPERTIES</b>		
Sound Absorption	NPD	EN 14303:2009+A1:2013 (EN ISO 354)
<b>MECHANICAL PROPERTIES</b>		
Compressive Stress at 10 % deformation CS(10), $\sigma_{10}$	50 kPa	EN 14303:2009+A1:2013 (EN 826)
<b>EMISSIONS</b>		
Release of Dangerous Substances	NPD	EN 14303:2009+A1:2013
<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.	



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).