PAROC Pro Slab WR 640 Clad

PAROC Pro Slab WR 640 Clad is a non-combustible stone wool insulation slab with with outstanding water repellency and a strong, aluminium-coated glass fibre cloth coating resistant to external weather conditions (chemicals and UV protection) and mechanical damages.

The product is suitable for thermal insulation of industrial ducts, process equipment and power plant structures in both indoor and outdoor applications. The product can be used without any additional cladding.

PAROC WR products are an excellent tool for minimizing the risk of CUI (corrosion under insulation), keeping the outstanding water repellent properties at elevated temperatures. PAROC WR products are safe to use in combination with painting operations.

The product is reinforced with a Clad facing, a water-vapour-resistant and UV-resistant barrier which, when combined with correctly taped joints, reduces the risk of condensation when properly installed.



Product Data Sheet **2026-11-03**

Dimensions (mm)

Width x Length	Thickness
600 x 1200	30,40,50,60,70,80,90,100

Nominal Density

80 kg/m³

Other dimensions are available on request.

Product characteristics according to EN 14303

Designation Code	MW-EN 14303-T5-ST(+)640-WS1-MV2-CL10
DoP Number	40717
Thickness Tolerance, T	T5
Reaction to Fire, Euroclass	C-s1,d0
Maximum Service Temperature - Dimensional Stability	640 °C
Water Absorption, Short Term, W_p	≤ 1 kg/m²
Water Vapour Diffusion Resistance	MV2
Trace Quantity of Water-soluble Chloride Ions	≤ 10 ppm
Thermal Conductivity, λ_D	See table below

°C	10	50	100	150	200	300	400	500	600	640
λ_D W/(m*K)	0.035	0.039	0.045	0.053	0.062	0.084	0.112	0.144	0.185	0.203

Fire Properties

Surface temperature of the facing must not exceed +80 °C (temperature restriction determined in accordance with heat resistance adhesive).

PAROC Stonewool products are capable of withstanding high temperatures. The binder starts to evaporate when its temperature exceeds approximately 200°C while the fire protecting properties remain unchanged. Stone wool has a high melting point of over 1000°C (internal test method).

Moisture Properties

PAROC WR-grade flat products are providing a very low water absorption (average water absorption level <0,1 kg/m² after 300°C/24h prebake) according to BS EN ISO 29767, based on 3rd-party testing in 2019 and internal testing in 2023-2024.

Environmental Properties

The European Certification Board for Mineral Wool products (EUCEB) trademark on our products confirms that PAROC Stonewool fibre fulfils the bio solubility requirements of EU directive No. 1272/2008. The German RAL quality mark confirms that the bio solubility and safety requirements are met according to the German technical regulation TRGS905.

PAROC Stonewool is made of stone. The volume of the product is ~98% air and only ~2% fiberized stone. The excellent properties of the product are based on the properties of the raw materials. PAROC Stonewool maintains its insulating ability and dimensions throughout the reference service life of the the building, which is considered to be minimum 50 years.

Certificates and Approvals

EC Certificate of Conformity	0809-CPR-1016

PAROC WR products are safe to use in combination with painting operations: PAROC WR products are 3rd party tested, passing the requirements of the most stringent class of the LABS conformity (paint wetting impairment) standard, VDMA 24364.

PAROC slabs can be used to satisfy the requirements as given in the tables for insulation thickness in BS5422:2023. PAROC can offer help and assistance to customers to confirm that the insulation systems proposed do in fact achieve the necessary performance criteria. PAROC slabs conform to BS3958-5.

Storage and Installation

PAROC products should be stored in packaging protected against external weather conditions.

Installation in accordance with the design assumptions or based on the manufacturer's instructions.

Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Paroc makes no representation about, and is not responsible or liable for the accuracy or reliability of data associated with particular uses of any product described herein. Paroc reserves the right to modify this document without prior notice. PAROC is a registered trademark of Paroc Group Oy. This data sheet is valid in following countries: international use (general information).