PAROC Pro Slab WR 450 AluCoat

PAROC Pro Slab WR 450 AluCoat is a non-combustible stone wool insulation slab with outstanding water repellency and a reinforced aluminium foil facing on one side.

The product is suitable for thermal insulation of industrial ducts, tanks and other industrial process equipment.

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 AluCoat, a water vapour-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	25,30,40,50,60,70,80,100,120

Nominal Density

60 kg/m³

Other dimensions are available on request.

Product characteristics according to EN 14303

Designation Code	MW-EN 14303-T5-ST(+)450-WS1-MV2-CL10
DoP Number	40445
Thickness Tolerance, T	T5
Reaction to Fire, Euroclass	A1
Maximum Service Temperature - Dimensional Stability	450 °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	450
λ_D W/(m*K)	0.035	0.040	0.047	0.056	0.067	0.095	0.129	0.149

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.

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