

# PAROC Pro Mat WR 640

PAROC Pro Mat WR 640 is a non-combustible stone wool mat with outstanding water repellence for industrial applications, for thermal insulation purposes when insulating flat or irregularly shaped equipment.



## Product Data Sheet

!!ATT\_PDSPublicationDate~~

Dimensions (mm)	Width x Length	Thickness
	1000 x 2000	100
	1000 x 3000	80,90
	1000 x 3500	70
	1000 x 4000	60
	1000 x 5000	50
	1000 x 6500	40
	1000 x 8000	30

<b>Nominal Density</b>	80 kg/m <sup>3</sup>
<b>Package Type</b>	Plastic packs on pallet
	Other dimensions are available on request.

<b>Product characteristics according to EN 14303</b>	Designation Code	MW-EN 14303-T2-ST(+)-640-WS1-CL10
	DoP Number	40634
	Thickness Tolerances, T	T2
	Reaction to Fire, Euroclass	A1
	Maximum Service Temperature - Dimensional Stability	640 °C
	Water Absorption, Short Term WS, Wp	≤ 1 kg/m <sup>2</sup>
	Trace Quantity of Water-soluble Chloride Ions	≤ 10 ppm
	Thermal Conductivity, λ <sub>D</sub>	See table below

°C	10	50	100	150	200	300	400	500	600	640
λ <sub>D</sub> W/(m*K)	0.035	0.040	0.046	0.053	0.062	0.084	0.111	0.146	0.190	0.205

<b>Fire Properties</b>	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).
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**Moisture Properties**

PAROC WR-grade flat products are providing a very low water absorption (average water absorption level <0,1 kg/m<sup>2</sup> after 300°C/24h prebake) according to BS EN ISO 29767, based on 3rd-party testing in 2019 and internal testing in 2023-2024.

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**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.

PAROC Stonewool is reusable and can be recycled into new stone wool products.

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**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 mats 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.

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**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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