

PAROC Pro Wired Mat LE 680

PAROC Pro Wired Mat LE 680 is a non-combustible stone wool wired mat with low-emission binder technology and with a metallic mesh on one side.

The product is intended for the thermal insulation of indoor industrial equipment operating at elevated temperatures, including boilers, steam pipework, boiler penthouses, and similar installations.

PAROC Pro Wired Mat LE products are intended for the thermal and acoustic insulation of industrial equipment and are particularly recommended for indoor high-temperature applications and poorly ventilated areas. Their low-emission binder technology results in exceptionally low emissions of substances such as formaldehyde and monoisocyanates during the initial heat-up phase compared with conventional mineral wool insulation products.

This product is also available with AL1, AluCoat or Comfort facing, and with stainless steel mesh and sewing wire (W2) or with galvanized mesh and stainless steel sewing wire (SW2).



Product Data Sheet

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Dimensions (mm)	Width x Length	Thickness
	1000 x 2000	120
	1000 x 2500	100
	1000 x 3500	80
	1000 x 4000	60
	1000 x 4500	50

Nominal Density	100 kg/m ³
	Other dimensions are available on request.

Product characteristics according to EN 14303	Designation Code	MW-EN 14303-T2-ST(+)-680-WS1-CL10
	DoP Number	40769
	Thickness Tolerance, T	T2
	Reaction to Fire, Euroclass	A1
	Maximum Service Temperature - Dimensional Stability	680 °C
	Water Absorption, Short Term, W _p	≤ 1 kg/m ²
	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	680
λ _D W/(m*K)	0.035	0.039	0.045	0.051	0.059	0.078	0.102	0.131	0.167	0.196

Fire Properties	Maximum temperature exposure of the galvanized mesh: +300 °C. For higher temperatures we recommend choosing stainless steel mesh (W2).	
	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).	
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 wired 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. PAROC wired mats conform to BS3958-3.	
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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