

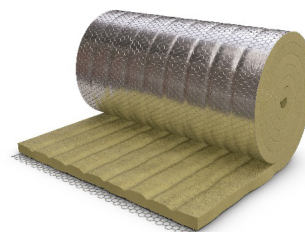
PAROC Pro Wired Mat LE 680 AL1

PAROC Pro Wired Mat LE 680 AL1 is a non-combustible stone wool wired mat with low-emission binder technology and with an aluminium foil facing and 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 unfaced or with 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

2026-10-14

Dimensions (mm)	Width x Length					Thickness																										
	500 x 2500					100																										
Nominal Density	100 kg/m³																															
	Other dimensions are available on request.																															
Product characteristics according to EN 14303	Designation Code					MW-EN 14303-T2-ST(+)-680-WS1-CL10																										
	DoP Number					40770																										
	Thickness Tolerance, T					T2																										
	Reaction to Fire, Euroclass					A1																										
	Maximum Service Temperature - Dimensional Stability					680 °C																										
	Water Absorption, Short Term, W _p					≤ 1 kg/m²																										
	Trace Quantity of Water-soluble Chloride Ions					≤ 10 ppm																										
	Thermal Conductivity, λ _D					See table below																										
	<table><tr><td>°C</td><td>10</td><td>50</td><td>100</td><td>150</td><td>200</td><td>300</td><td>400</td><td>500</td><td>600</td><td>680</td></tr><tr><td>λ_D W/(m*K)</td><td>0.035</td><td>0.039</td><td>0.045</td><td>0.051</td><td>0.059</td><td>0.078</td><td>0.102</td><td>0.131</td><td>0.167</td><td>0.196</td></tr></table>											°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
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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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