

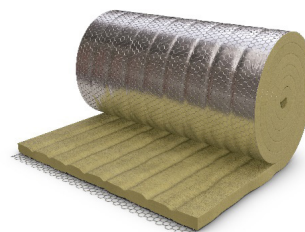
PAROC Pro Wired Mat LE 680 AluCoat

PAROC Pro Wired Mat LE 680 AluCoat is a non-combustible stone wool wired mat with low-emission binder technology and with a reinforced 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 AL1 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

500 x 3500

80

500 x 4000

60

500 x 4500

50

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 40771

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

°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

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).

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.	

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).