



Thickness mm	Length mm	Width mm	Packaging m ² /roll	m ² per 40ft HC container*
30	8000	500	4.0	2200
40	6000	500	3.0	1650
50	5000	500	2.5	1375
60	4000	500	2.0	1100
75	4000	500	2.0	934
80	3000	500	1.5	825
100	3000	500	1.5	750
120	3000	500	1.5	720

The following variants are available on request:

- ProRox WM 960SW^{NL}: Stainless steel mesh and stitching wire
- ProRox WM 960S^{NL}: Galvanised steel mesh and stainless steel stitching wire
- ProRox WM 960ALU^{NL}: Galvanised steel mesh and stitching wire with addition of aluminium foil between mesh and stone wool
- ProRox WM 960SW ALU^{NL}: Stainless steel mesh and stitching wire with addition of aluminium foil between mesh and stone wool

Shrink-wrapped

*Approximate quantities.

Applications

ProRox WM 960^{NL} is a lightly bonded heavy stone wool mat stitched on galvanised wired mesh with galvanised wire. The wired mat is especially suitable for industrial installations such as high-pressure steam pipes, reactors, furnaces, etc. where high demands are made on the temperature resistance of the insulation.

Compliance

ProRox WM 960^{NL} Wired Mats fully comply with the requirements as set by internationally recognized standards like EN14303, CINI 2.2.02 and ASTM C592 Type I, II and III.

Advantages

- Suitable for heavy duty applications which are exposed to high temperatures and high mechanical loads
- Resistant to high temperatures
- Flexible application
- Available in a wide range of thicknesses
- Suitable for use over stainless steel

Product properties



	Performance											Norms	
	T (°C)	50	100	150	200	250	300	350	400	500	600		660
Thermal conductivity	T (°C)												EN 12667 ASTM C177
	λ [W/mK]	0.039	0.045	0.052	0.059	0.068	0.078	0.089	0.102	0.131	0.167	0.191	
Maximum Service Temperature	660°C (1220°F)											EN 14706 ASTM C411	
	750°C (1382°F)												
Reaction to fire	EuroClass A1											EN 13501-1 ASTM E84 (UL 723)	
	Surface burning characteristics; Flame spread = passed, Smoke development = Passed												
Nominal density	100 kg/m ³ (6.2 lb/ft ³) EN 1602											EN 1602	
Water leachable chloride content	Chloride content < 10 ppm (AS - Quality)											EN 13468 ASTM C795	
	Conforms to the stainless steel corrosion specification as per ASTM test methods C 692 and C 871 < 10 mg/kg (ph-value neutral to slightly alkaline)												
Water absorption	< 1 kg/m ²											EN 1609 ASTM C1104/ C1104M	
	Water vapour absorption (Vapor sorption) ± 0.02% vol												
Water vapour diffusion resistance	μ = 1											EN 14303	
Air Flow Resistivity	> 60 kPa.s/m ²											EN 29053	
Designation code	MW EN 14303-T2-ST(+)/660-WS1-CL10											EN 14303	

Note

All steel components exposed to a corrosive environment should be cleaned, degreased and coated with a protective finish.

Installation guidelines

Assembly

Cut the wired mat to length, so that the mat fits the pipe with slight pre-stressing. The closing joints must be staggered at an angle of at least 30 degrees to each other. The closing joints of the mats (lengthwise and circular joints) must be wired together using e.g. steel wire min. 0.5 mm or secured with mat hooks.

Stainless steel pipes and pipes with a temperature of > 400°C should preferably be insulated with ProRox WM 960 SW^{ML}, in which both the mesh and the stitching wire is in stainless steel. If the mats are assembled in multiple layers, both the lengthwise and circular joints must be staggered ('masonry bond').

Support construction

Given the limited pressure resistance of wired mats, in most cases a support is required for the board cladding. As a guideline, assume that a support is required every 3 to 4 metres.

Finishing

The insulation should be finished with a metal (e.g. aluminium) cladding. Where necessary, expansion joints are provided to cater for expansion of the pipes. Both the lengthwise and circular joints are fastened with sheet-metal screws: hard aluminium or stainless steel 1/2", 8/metre. Close the expansion joints with a steel tensioning wire. Connections to mountings, head and end caps, etc. should be made watertight using a suitable sealant.