ProRox WM 960^{SA} **Old Equivalent Grade:RockTech WM650** **Heavy duty wired mat**

Dimensions

Standard Width: 600 mm

Thickness mm	Length mm
25	8000
30	8000
40	6000
50	5000
60	4000
70	4000
75	4000
80	3000
90	3000
100	3000

Standard Width: 1000 mm

Thickness mm	Length mm
25	6000
30	6000
40	5000
50	5000
60	4000
70	2500
75	2500
80	2500
90	2500
100	2500

Note: Above sizes are based upon the production capabilities of the Melaka manufacturing plant. For other manufacturing plant's production capabilites on sizes, please refer to your local sales repesentative

Applications

ProRox WM 960^{SA} 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^{SA} Wired Mats comply with the requirements as set by internationally recognized standards like 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							Standard
Thermal Conductivity	Mean Temp (°C)	50	100	150	200	250	300	ASTM C177
	λ (W/mK)	0.037	0.042	0.048	0.056	0.065	0.073	
Nominal Density	100 kg/m^3							EN 1602
Maximum Service Temperature	650°C							ASTM C411/C447
Linear Shrinkage	Less than 2% (at max service temperature)							ASTM C356
Reaction to Fire	EuroClass A1 Surface burning characteristics; Flame spread = passed, Smoke development = passed							EN 13501-1 ASTM E84
pH	pH 7-12.5							ASTM C871
Chloride Content	Less than 10 ppm Conforms to the stainless steel corrosion specification as per ASTM C795							ASTM C871 ASTM C692/C871
Moisture Absorption	Less than 1% weight							ASTM C1104/C1104M
Water Absorption	Less than 1 kg/m^2							EN 1609

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[SA], 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.