ProRox WM 970^{SA}
Old Equivalent Grade: RockTech WM650HD

Heavy duty wired mat

Dimensions

Standard Width: 600 mm	Standard Length (mm)	
Thickness(mm)	Malaysia Factory	Thailand Factory
25	5000	5000
30	5000	5000
40	5000	5000
50	5000	5000
60	4000	4000
70	2500	3000
75	2500	3000
80	2500	2000

Applications
ProRox WM 970^{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 where high temperature and vibration resistance is required.

Compliance
ProRox WM 970^{SA} Wired Mats comply with the requirements as set by the internationally recognized standards like CINI 2.2.02 and ASTM C592 Type I, II and III.

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 970^{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.

Technical Insulation

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

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)	0.038	0.043	0.050	0.057	0.066	0.076	
Nominal Density	128 kg/m³							ASTM C167
Maximum Service Temperature	750°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
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/m²							EN 1609

Note: All information and data for technical parameters are based on laboratory testing.

ProRox Product Catalogue