

**ProRox WM 950<sup>SA</sup>****Wired mat****Dimensions**

Standard Width: 600 mm	Standard Length (mm)	
Thickness(mm)	Malaysia Factory	Thailand Factory
40	5000	5000
50	5000	5000
60	4000	4000
70	2500	3000
75	2500	3000
80	2500	2000
90	2000	2000
100	2000	2000

**Applications**

ProRox WM 950<sup>SA</sup> is a lightly bonded stone wool mat stitched on galvanised wire mesh using galvanised wire. The wired mat is suitable for thermal and acoustic insulation of industrial applications reaching high temperatures, such as industrial pipe work, boiler walls, furnaces and smoke ducts.

**Compliance**

ProRox WM 950<sup>SA</sup> 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) must be wired together using 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 950<sup>SA</sup>, in which both the mesh and the stitching wire is 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.

**Note**

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

**Advantages**

- Suitable for high temperature application
- Flexible application
- Available in a wide range of thicknesses
- Suitable for use over stainless steel

**Product properties**

	Performance							Standard
<b>Thermal Conductivity</b>	Mean Temp (°C)	50	100	150	200	250	300	ASTM C177
	λ (W/mK)	0.038	0.046	0.053	0.062	0.071	0.080	
<b>Nominal Density</b>	80 kg/m³							ASTM C167
<b>Maximum Service Temperature</b>	650°C							ASTM C411/ C447
<b>Linear Shrinkage</b>	Less than 2% (at max service temperature)							ASTM C356
<b>Reaction to Fire</b>	EuroClass A1 Surface burning characteristics; Flame spread = passed, Smoke development = passed							EN 13501-1 ASTM E84
<b>Chloride Content</b>	Less than 10 ppm Conforms to the stainless steel corrosion specification as per ASTM C795							ASTM C871 ASTM C692/ C871
<b>Moisture Absorption</b>	Less than 1% weight							ASTM C1104/ C1104M
<b>Water Absorption</b>	Less than 1 kg/m²							EN 1609

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