Product Catalogue

General Product Information

ROCKWOOL stone wool products are made of basalt, a volcanic stone.

ROCKWOOL stone wool products are non-combustible with a melting point of approximately 1000°C. They are particularly suitable for thermal insulation, fire protection and sound re duction/absorption.

ROCKWOOL stone wool is inorganic and contains no nutri tious substance. Therefore it will not be attacked by microor ganisms. Stone wool will not rot and does not attract vermin.

No CFCs, HFCs, HCFCs or asbestos are used in the manufac ture of ROCKWOOL stone wool products.

TOP Insulation and Trading
บริษัท ท็อป อินซูเลชั่น แอนด์ เทรดดิ้ง จำกัด
7/1 ซอยเพชรเกษม 108 แยก 9 ถนองค้างพลู ถนองแขม กทม. 10160
T. 02 808 2147-9 M. 086 785 9255

ProRox PS 960SA **Old Equivalent Grade: RockTech SPI 120** **Pipe Section**

Dimensions

Nominal pipe size (NPS) inches	Internal diameter pipe insulation (ASTM C585-10) mm
½	22
¾	27
1	34
1 ¼	43
1 ½	49
2	61
2 ½	74
3	90
3 ½	102
4	115
4 ½ (Only available in Rayong factory)	128
5	143
6	170
7	196
8	221
9	246
10	275
11	300
12	326
14	358
16	408.8
18	459.6
20	510.4
22	561.2
24	612
26	662.8
28	713.6
30 (Only available in Bukit Raja factory)	764.4
32 (Only available in Bukit Raja factory)	815.2

Distribution by

TOP Insulation and Trading

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Applications

ProRox PS 960^{SA} is a pre-formed stone wool pipe section. The sections are supplied split and hinged for easy snap-on assembly, and are suitable for the thermal and acoustic insulation of industrial pipe work.

Compliance

ProRox PS 960^{SA} Pipe Sections comply with the requirements as set by internationally regonized CINI 2.2.03, ASTM C547 Grade A type I, II, IV.

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

Installation guidelines

Assembly

Fit the ProRox PS 960^{SA} closely around the pipe, with the lengthwise (horizontal) joint turned towards the underside. The lengthwise joints must be staggered at an angle of at least 30 degrees to each other. The shell is secured with galvanised binding wire (thickness 0.5 mm, at least 3/m). For insulation thickness above 100 mm (or temperatures > 250°C) the insulation should be applied in at least two layers. In the case of multi-layer insulation it is recommended that the lengthwise and crosswise joints are staggered ('masonry bond').

Support construction

On pipes where mechanical loading (e.g. strong vibrations) of the insulation is expected and/or the temperature is higher than 300°C, a support structure (spacers) should be constructed. The number of spacers depends on the temperature and the mechanical load. As a guide, the following intermediate distances can be used:

- Horizontal pipe work: 3 to 4 m
- Vertical pipe work: 5 to 6 m

Finishing

All pipe sections should be finished with a metal (e.g. aluminium) cladding. Where necessary, expansion joints are required 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 per metre. Close expansion joints with a steel tensioning wire. Connections to mountings, head and end caps, etc. should be made watertight using an appropriate sealant.

Advantages

- Excellent fit provides optimal performance
- Easy to handle and to install
- Wide range of diameters and insulation thicknesses
- Suitable for use over stainless steel
- For temperatures up to 350°C, a support construction is not generally necessary

Product properties

	Performance								Standard
Thermal Conductivity	Mean Temp (°C)	50	100	150	200	250	300	350	ASTM C335
	λ (W/mK)	0.037	0.042	0.048	0.055	0.063	0.072	0.083	
Nominal Density	120 kg/m^3								ASTM C335
Maximum Service Temperature	650°C								ASTM C411/C447
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 13472