



ROCKAL PIPES

PS100-PS128-PS140-PS 160

DESCRIPTION:

ROCKAL Preformed pipes section are made of rock wool fibers spun from molten basalt and bonded by a thermo-setting resin binder. The fibers are molded around pipes of different standard diameters at the required thickness and dried to form rigid insulation hollow the cylinders, which is then slit length wise to allow easy, snap o the pipes.

ROCKAL preformed pipe sections are manufactured under ASTM C 547& C 585 Requirements.

APPLICATION:

ROCKAL preformed pipe insulation is used over a very wide temperature range to insulate all sizes of cold and hot pipes for:

Domestic water in building and chemical processes such as in oil refineries, chemical and petrochemical insulation, and desalination plants, HVAC system, oil pipelines. Also for improving acoustical insulation of pipelines I which gas fluids or particle solids are transported at high velocities

PRODUCT RANGE:

Product Name	Dimension		Density kg/m3 Range (100 To 160)	Thickness (mm)	Thermal Conductivity W/mk @ 10 °C
	Length (m)	PIPE SIZE IN INCH			
ROCKAL PS 100	1	½" - 24"	100-160	25 to 100	0.037 TO 0.040

NOTE:

Any other sizes can be produced upon special order

FACING:


ROCKAL preformed pipe insulation is non-faced or faced with reflective vapor barrier material as aluminum foil.



THERMAL CONDUCTIVITY:

(0.036) W/M K@ 10 °C (ASTM C-177)

Table for density 100kg/m³ faced with reinforced alu foil .

MEAN TEMPERATURE (°C)	THERMAL CONDUCTIVITY W/MK	
0	0.034	
50°	0.036	
100°	0.041	
150°	0.051	
200°	0.063	
250°	0.074	
300°	0.090	
400°	0.122	



TECHNICAL PROPERTIES:

PROPERTY	VALUE	PRODUCT COMPLIANCE
SERVICE TEMP.(HOT SIDE) ROCKWOOL MELTING TEMP. OUTER FACING LIMITING TEMP.	750 °C 1150 °C 100	ASTM C 411
FIRE CLASSIFICATION FLAME SPREAD INDEX SMOKE DEVELOPED	NON- COMBUSTIBLE < 10 < 20	ASTM E 136, BS 476 P , 4, DIN 4120, IMO RESOLUTION A 4729 (XII) ASTM E 84 UL 723
MOISTURE SORPTION	< 1 % (BY WEIGHT , WATER REPELLANT NON HYGROSCOPIC NON CAPILLARY NO EFFECT ON ITS STABILITY	ASTM C 1104
CORROSION RESISTANCE SOLUBLE CHLORIDES	PH 7 OR SLIGHTLY ALKALINE 6 PPM	ASTM C 871 , ASTM C 692-77 (CORROSION TEST) ASTM C 871-77 (CHEMICAL TEST)
FUNGI RESISTANCE	DOES NOT ENCOURAGE FUNGI GROWTH	(ASTM C -665)
NOISE REDUCTION COEFFICIENT (NRC)	0.85	ASTM C 423-90A BS-EN ISO 354: 2003
ASBESTOS CONTENT	DOES NOT CONTAIN : AMPHIBOLE { CA2 MG3(OH)2 Si8 O22} NOR SERPENTINE ASBESTOS {MG3 Si2 (OH)4 O5}	
ENVIRONMENT		CFC AND HCFC FREE
EXPANSION AND CONTRACTION		COMPLETELY STABLE
SHOT CONTENT		< 25% BY WEIGHT



STEEL PIPES TO BS 1387, BS AND ASI /ASTM B 36.10-1985

NOM.BOR		O.D		MM	20	25	30	40	50	60	75	100
Mm	inch	mm	inch	inch	¾	1	1¼	1½	2	2½	3	4
15	½	21	27/32	.	.	.	.	.	.	.	.	.
20	¾	27	1 1/16	.	.	.	.	.	.	.	.	.
25	1	34	1 11/32	.	.	.	.	.	.	.	.	.
32	1¼	42	1 11/16	.	.	.	.	.	.	.	.	.
40	1½	48	1 29/32	.	.	.	.	.	.	.	.	.
50	2	60	2 3/8	.	.	.	.	.	.	.	.	.
65	2½	76	3	.	.	.	.	.	.	.	.	.
80	3	89	3½	.	.	.	.	.	.	.	.	.
100	4	114	4½	.	.	.	.	.	.	.	.	.
125	5	140	5½	.	.	.	.	.	.	.	.	.
150	6	166	6½	.	.	.	.	.	.	.	.	.
200	8	219	8½	.	.	.	.	.	.	.	.	.

INSTALLATION:

Prior to the installation of ROCKAL pipe insulation, it is important to consider the following notes:

Clean up and dry all the surfaces to be insulated before the installation of pipe section insulation.

Under no circumstances should surfaces be insulated while they are wet or in frosted conditions.

At installation the pipe section should be wrapped around the pipe with the horizontal seem on the underside of the pipe and the ends but jointed. The self adhesive tape is used to seal the pipe section after it is snapped on the pipe .

Binding wires could be used to secure the insulation around the pipe to ensure maximum safety in the event of fire.

Ceircumferential joint must also be carefully sealed with adhesive tape.

Pipe bends are insulated to the same specification as the adjacent straight piping .

Pipe section should be cut mitered segment fashion.

Stapling of the aluminum sealing strip (overlap) and thus puncturing the vapor barrier is not permissible.