

STONE WOOL PREFABRICATED PIPE



It is a pipe unfaced or faced with aluminium foil and manufactured out of stone wool with high unit weight. It is used for the thermal insulation of industrial pipes of temperatures over 250 °C, for vibration and sound insulation of pressurized pipes and against frost in pipes.

Application

Appropriate Stone Wool Prefabricated Pipe according to nominal diameter of the pipe line to be used is chosen. It is placed by parting cut line. The application is completed so that no gap is left between the joints. Unfaced pipes are coated with bituminous emulsion or bituminous membranes, galvanized or aluminium jacket. Coating joints are fastened by adhering, clamping, riveting or screwing. For the pipes coated with aluminium foil that are used for the insulation of cold lines, adhesive tape on overlap allowance and vapour barrier foil coating make the installation process notably easy. In this application, the joint of the two pipes should definitely be sealed with an adhesive aluminium foil tape with 7,5 mm width and vapour passage should totally be prevented. If a double layer application for the pipe insulation is carried out, care should be taken to line up the joint of second layer with the bottom of the pipe and to ensure the joints are staggered.

Pipe Line Diameter		Insulation Thickness (mm)							
inch	mm	25	30	40	50	60	80	100	
1/4	13	+	+	+	+				
1/2	21	+	+	+	+	+			
3/4	27	+	+	+	+	+			
1	33	+	+	+	+	+			
1 1/4	42	+	+	+	+	+			
1 1/2	48	+	+	+	+	+			
2	60	+	+	+	+	+	+		
2 1/2	76	+	+	+	+	+	+	+	
3	89	+	+	+	+	+	+	+	
4	114	+	+	+	+	+	+	+	
5	140		+	+	+	+	+	+	
6	169		+	+	+	+	+	+	
8	219		+	+	+	+	+	+	
10	273		+	+	+	+	+		
12	324		+	+	+	+			
14	356		+	+	+				

Dark colored cells are belong to 100 kg/m³ density pipes.

Declared Thermal Conductivity (W/mk)	Average Temperature (°C)	Density (kg/m ³)	(100)
		50	0,037
	100	0,045	
	150	0,054	
	200	0,063	
	250	0,075	
	300	0,088	
	350	0,101	



- High thermal insulation
- Fire safety
- Fast and easy installation
- Sound and vibration insulation



TECHNICAL DATA SHEET

izocam Stone Wool Prefabricated Pipe

Properties		Symbol	Unit	Description							Tolerance	Standard
Material		-	-	Stone Wool							-	TS EN 14303
Density		-	kg/m ³	see the table							± 15 mm	TS EN 14303
Thickness		t	mm	see the table							T8 *	TS EN 823 (≤ 150 mm)
											T9 **	TS EN 823 (≥ 150 mm)
Length		L	mm	1200							± 5 mm	TS EN 822
Inner Diameter		Ø	mm	see the table							-0; +4	TS EN 13467 (≤ 150 mm)
											-0; +5 or +2%	TS EN 13467 (≥ 150 mm)
Declared Thermal Conductivity		T _m	°C	50	100	150	200	250	300	350	-	TS EN 12667 TS EN 12939 TS EN 13787
	100	λ _D	mW/m.K	37	45	54	63	75	88	101		
	>100			37	44	52	61	71	82	94		
Max. Service Temperature		-	°C	600							-	TS EN 14707
Water Absorption		-	kg/m ²	≤ 1							-	TS EN 13472
Facing		-	-	Unfaced				Al-foil			-	-
Reaction to fire		-	-	A1 _L				A2 _L -s1,d0			-	TS EN 13501-1
Packaging Material		-	-	PE Bag - Carton Box							-	-

Diameter		Insulation Thickness (mm)													
inch	mm	25 mm		30 mm		40 mm		50 mm		60 mm		80 mm		100 mm	
		kg/m ³	gr/pcs	kg/m ³	gr/pcs	kg/m ³	gr/pcs	kg/m ³	gr/pcs	kg/m ³	gr/pcs	kg/m ³	gr/pcs	kg/m ³	gr/pcs
1/4	15	145	547	135	687	125	1037	100	1225	-	-	-	-	-	-
1/2	21	140	627	130	772	120	1131	100	1367	100	1866	-	-	-	-
3/4	27	140	699	130	853	120	1230	100	1470	100	1991	-	-	-	-
1	33	140	792	130	956	120	1357	100	1602	100	2149	-	-	-	-
1 1/4	42	140	904	125	1039	110	1385	100	1762	100	2341	-	-	-	-
1 1/2	48	140	983	125	1124	110	1485	100	1876	100	2477	-	-	-	-
2	60	130	1060	110	1138	100	1531	100	2102	100	2748	100	4268	-	-
2 1/2	76	120	1159	100	1216	100	1772	100	2403	100	3110	100	4750	100	6692
3	89	120	1306	100	1363	100	1968	100	2648	100	3404	100	5142	100	7182
4	114	105	1395	100	1651	100	2352	100	3129	100	3981	100	5911	100	8143
5	140	-	-	100	1927	100	2720	100	3589	100	4533	100	6647	100	9063
6	169	-	-	100	2252	100	3153	100	4130	100	5182	100	7513	100	10145
8	219	-	-	100	2816	100	3906	100	5071	100	6311	100	9018	100	12026
10	273	-	-	100	3427	100	4720	100	6088	100	7532	100	10646	-	-
12	324	-	-	100	4015	100	5504	100	7069	100	8708	-	-	-	-
14	356	-	-	100	4366	100	5972	100	7653	-	-	-	-	-	-

* -5% or -3mm; +5% or +3mm
 ** -6% or -5mm; +6% or +5mm

Safety Reminders for Loading, Unloading, Shipping and Storing

- These operations should be done indoors in case of rainy weather conditions.
- Loading and unloading should be done by (at least) two people.
- Products should be put on top of each other with extra care.
- Only backshutter of the truck body should be opened during unloading.
- Unloading should be carried out from backside to the front.
- Products should be wrapped by a waterproof cover even if the shipping distance is short.
- During shipping maximum 8 boxes, during storing maximum 5 boxes should be superposed.
- Products should not be put into upright position during shipping and storing.
- Storing should be carried out on pallets.
- Boxes should be carried by their handles.
- Boxes should not be stepped on and should not be used as steps.
- Boxes should not be unloaded by pushing or throwing from the truck.

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