

GLASS WOOL PREFABRICATED PIPE



These are the pipes either unfaced or faced with aluminium foil manufactured from glass wool of high unit weight. They are used for the thermal insulation of industrial pipes, central heating and solar energy installations, for the insulation against freezing and condensation of the pipes and for vibration and sound insulation of the pressure water pipes as well.

Application

Appropriate Glass 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 Diameter		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	+	+	+	+	+		
*	57	+	+	+	+	+		
2	60	+	+	+	+	+	+	
*	63	+	+	+	+	+	+	
*	70	+	+	+	+	+	+	
2 1/2	76	+	+	+	+	+	+	+
*	83	+	+	+	+	+	+	+
3	89	+	+	+	+	+	+	+
*	102	+	+	+	+	+	+	+
*	108	+	+	+	+	+	+	+
4	114	+	+	+	+	+	+	+
*	127	+	+	+	+	+	+	+
*	133	+	+	+	+	+	+	+
5	140	+	+	+	+	+	+	+
*	159	+	+	+	+	+	+	+
6	169	+	+	+	+	+	+	+
*	193		+	+	+	+	+	+
8	219		+	+	+	+	+	+
*	244		+	+	+	+	+	+
10	273		+	+	+	+	+	+
12*	324		+	+	+	+	+	+
14*	356		+	+	+	+	+	+

* Grey lines are produced by order.



Thermal conductivity related with temperature

Thermal Conductivity (W/mk)	Average Temperature (°C)	Thermal conductivity related with temperature	
		50	0,036
		100	0,043
		150	0,050
		200	0,059
		250	0,069

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



TECHNICAL DATA SHEET

izocam Glass Wool Prefabricated Pipe

Properties	Symbol	Unit	Description					Tolerance	Standard	
Material	-	-	Glass Wool					-	TS EN 14303	
Density	-	kg/m ³	See Table					± 15 %	-	
Wall Thickness	-	mm	See Table					± 3 mm or ±6 % (which is greater)	TS EN 823	
Length	-	mm	1200					± 5 mm	TS EN 822	
Inner Diameter	-	mm	See Table					+4 mm, -1 mm or +2 %, -1 % (which is greater)	TS EN 13467	
Declared Thermal Conductivity	T _m	°C	50	100	150	200	250	< 0,035	TS EN 12667	
	λ	W/m.K	0,036	0,043	0,050	0,059	0,069			
Facing	-	-	Unfaced			Al-foil			-	-
Reaction to fire *	-	-	A1			C _{L-s} , d ₀			-	TS EN 13501-1
Max. Service Temperature	-	°C	250					max. 250	TS EN 14707	
Water Absorption	-	kg/m ²	max. 1					max. 1	TS EN 13472	
Package	-	-	PE Bag					-	-	

Diameter		Pipe Thickness (mm)															
inch	mm	20 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	kg/m ³	gr/pcs
1/4	15	95	251	80	301	80	407	80	664	80	980	80	1357	-	-	-	-
1/2	21	90	288	75	336	75	445	75	707	75	1025	70	1306	-	-	-	-
3/4	27	90	326	75	375	75	492	75	769	75	1103	70	1393	-	-	-	-
1	33	80	332	75	424	75	551	75	848	70	1122	70	1504	-	-	-	-
1 1/4	42	80	383	75	484	70	582	70	881	70	1234	60	1405	-	-	-	-
1 1/2	48	80	419	75	527	70	629	70	945	70	1313	60	1487	-	-	-	-
2	60	80	492	75	612	70	725	60	919	60	1261	60	1649	60	2561	-	-
2 1/2	76	-	-	75	725	70	851	60	1064	60	1442	60	1866	60	2851	60	4015
3	89	-	-	75	817	70	954	60	1181	60	1589	60	2042	60	3085	60	4309
4	114	-	-	75	997	70	1156	60	1412	60	1877	60	2389	60	3547	60	4886
5	140	-	-	80	1247	80	1542	60	1632	60	2153	60	2720	60	3988	60	5438
6	169	-	-	80	1464	80	1801	60	1892	60	2478	60	3110	60	4508	60	6087
8	219	-	-	-	-	80	2253	70	2734	60	3042	60	3787	60	5411	60	7216
10	273	-	-	-	-	80	2741	70	3304	60	3653	60	4520	60	6388	60	8437
12	324	-	-	-	-	60	2402	60	3293	60	4230	60	5212	60	7307	-	-
14	356	-	-	-	-	60	2619	60	3583	60	4592	60	5485	-	-	-	-

* Non-combustible al-foil coated pipes are classified as A_{2L-s}, d₀

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.

Izocam is not responsible for any problem because of misprinting. Izocam, the manufacturer, reserves the right to alter product specifications without prior notice. Izocam also manufactures special products upon request. For your requirements, you are requested to contact our Export Department.

