



JAINTUBES



JAIN TUBES ZX+ GI -HOT DIPPED PIPES & TUBES

Established in 1978, the Jaihind Group, the business conglomerate spearheaded by Mr.Mahendra Kumar Jain, has a long standing legacy of excellence in Kerala's commodities industry. Over the last 45 years, the group has championed many sectors of the infrastructure market creating new opportunities and global standards in product and service quality. With a wide array of clients including manufacturers, retailers, builders & contractors who rely on Jaihind Group to deliver the perfect and precise solutions & products ranging from Steel, Aluminum, PVC, Agriculture, Software/IT and more, Jaihind has established a strong presence within India and abroad as a leading manufacturer & trading intermediary between producers and purchasers.

Hot dip Galvanising Process

Step 1: Surface treated black tubes brought for Hot



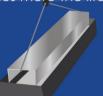
Step 2:

Black Tube immersed in to the bath ensuring 360 GSM pure and coating both inside and outside the tube



Step 3:

Pure Zinc coated Jain ZX+ Tube giving you extra protection and 3 times more the life



Step 4:

Final Product will shift to despatch for distribution



Advantages of JAIN TUBES ZX⁺

- O Steel tubes are first manufactured using high strength raw material and then are coated with pure molten zinc by a process called Galvanization.
- O Care is taken to ensure that each tube is completely coated- both inside and outside with minimum 360 GSM (Grams per square meter) of pure zinc coatina.
- O This ensures that JAIN TUBES GI ZX+ can withstand harsh effects of nature in coastal regions and regions receiving high rainfall which is compulsive. The beauty and strength of a home can now be maintained.

Classification of JAIN TUBES ZX+



Class A-Light: These are light gauge pipes which bear a yellow color strip for identification.



Class B-Medium: These are medium gauge pipes which bear a blue color strip for identification.

Nominal Bore		Outside Diameter	Light (A-Class) Thickness Weight		Medium (B-Class) Thickness Weight		Heavy (C-Class) Thickness Weight	
Inch mm		mm	mm	kg/mtr	mm	kg/mtr	mm	kg/mtr
1/2"	15 nb	21.43	2	0.952	2.65	1.122	3.25	1.45
3/4"	20 nb	27.2	2.35	1.41	2.65	1.58	3.25	1.9
1"	25 nb	33.8	2.65	2.01	3.25	2.44	4.05	2.97
1.1/4"	32 nb	42.9	2.65	2.58	3.25	3.14	4.05	3.84
1.1/2"	40 nb	48.4	2.9	3.25	3.25	3.61	4.05	4.43
2"	50 nb	60.3	2.9	4.11	3.65	5.1	4.47	6.17
2.1/2"	65 nb	76.2	3.25	5.84	3.65	6.61	4.47	7.9
3"	80 nb	88.9	3.25	6.81	4.05	8.47	4.85	10.1
4"	100 nb	114.3	3.65	9.89	4.5	12.1	5.4	14.4
5"	125 nb	139.7	-	- 1	4.85	16.2	5.4	17.8
6"	150 nb	165.1	- 1	-	4.85	19.2	5.4	21.2



Class C-Heavy: These are heavy gauge pipes which bear a red color strip for identification.

TOLERANCE AS PER IS 1239-2004 (A) THICKNESS TOLERANCE (B) WEIGHT TOLERANCE (C) LENGTH								
TOLERANCE	(B)WEIGHT	TOLERANCE	(C) LENGTH					
+Not Limited -8%	1. Single Tube (Light series)	+ 10 % - 8%	Light, Medium & Heavy tubes Random Length of 4 to 7 meters unless specified otherwise					
+ Not Limited -10%	2. Single Tubes (Medium & Heavy series)	± 10 %						
	3. For quantities per load of 10 Tons min. (Light series)	+7.% - 5%						
	4. For quantities per load of 10 Tons min. (medium & heavy series)	± 7.5%						
	+Not Limited -8% + Not Limited	TOLERANCE (B)WEIGHT +Not Limited8% 1. Single Tube (Light series) + Not Limited -10% 2. Single Tubes (Medium & Heavy series) 3. For quantities per load of 10 Tons min. (Light series) 4. For quantities per load of 10 Tons min.	TOLERANCE					

Product Specification & Tolerance

JAIN TUBES ZX⁺ WEIGHT CHART

NB	OD	Thk	Mass	Area of Cross- Section	Internal Volume	Sur	face	Moment of Inertia	Modules of Section	Modulus of Gyration	Square of Radious of Gyration
mm	mm	mm	Kg/m	cm2	cm3/m	External cm3/m	Internal cm3/m	cm4/m	cm3	cm	cm2
1	2	3	4	5	6	7	8	9	10	11	12
2010	2.0	2	0.952	1.21	235	669	543	0.57	0.54	0.69	0.47
15	21.3	2.6	1.20	1.53	204	669	506	0.68	0.64	0.67	0.45
	21.3	3.2	1.43	1.82	174	669	468	0.77	0.72	0.65	0.42
	26.9	2.3	1.40	1.78	391	845	701	1.36	1.01	0.87	0.76
20	26.9	2.6	1.56	1.98	370	845	682	1.48	1.10	0.86	0.75
	26.9	3.2	1.87	2.38	330	845	644	1.70	1.27	0.85	0.71
	33.7	2.6	1.99	2.54	638	1459	895	3.09	1.84	1.10	1.22
25	33.7	3.2	2.41	3.07	585	1059	858	3.60	2.14	1.08	1.18
	33.7	4	2.93	3.73	519	1059	807	4.19	2.49	1.06	1.12
	42.4	2.6	2.55	3.25	1087	1332	1169	6.46	3.05	1.41	1.99
32	42.4	3.2	3.09	3.25	1018	1332	1131	7.62	3.05 359	1.41	1.99
	42.4	4	3.79	4.83	929	1332	1081	8.99	4.24	1.36	1.86
			<u>'</u>					<u>'</u>		<u> </u>	
	48.3	2.9	3.25	4.14	1419	1517	1335	10.70	4.43	1.61	2.59
40	48.3	3.2 4	356 4.37	4.53	1379	1517	1316	11.59	4.80 5.70	1.60	2.56 2.47
	48.3	4	4.37	5.57	1276	1517	1266	13.77	5.70	1.57	2.47
	60.3	2.9	4.11	5.23	2333	1894	1712	21.59	7.16	2.03	4.13
50	60.3	3.6	5.03	6.41	2215	1894	1668	25.87	8.58	2.01	4.03
	60.3	4.5	6.19	7.89	2067	1894	1612	30.90	10.25	1.98	3.92
	76.1	2.9	5.24	6.67	3882	2391	2209	44 74	11.76	2.59	6.71
65	76.1	3.6	6.44	8.20	3728	2391	2165	54.01	14.19	2.57	6.59
	76.1	4.5	7.95	10.12	3536	2.391	2108	65.12	17.11	2.54	6.43
	88.9	3.2	6	8.62	5346	2793	2592	79.21	17.82	3.03	9.19
80	88.9	4	8.38	10.67	5346	2793	2592	96.34	21.67	3.03	9.19
30	88.9	418	9.96	12.68	4939	2793	2491	112.49	25.31	2.98	<u> </u>
	k.										
	101.6	3.6	8.70	11.08	6999	3192	2966	133.24	26.23	3.47	12.02
90	101:6	4	9.63	12.26	6881	3192	2941	146.28	28.80	3.45	11.93
	101.6	4.8	11.46	14.60	6648	3192	2890	171.39	33.74	3.43	11.74
	114.3	3.6	9.83	12.52	9009	3591	3365	191.98	33.59	3.92	15.33
100	114.3	4.5	12.19	15.52	8709	3591	3308	234.32	41.00	3.89	15.10
	114.3'	5.4	14.50	18.47	8413	3591	3252	274.54	48.04	3.85	14.86
	127	4.5	1359	17.32	10936	3990	3707	325.29	51.23	4.33	18.78
110	127	4.8	14.47	18.43	10825	3990	3688	344.50	54.25	4.32	18.69
	127	5.4	1619	20.63	10605	3990	3651	382.04	60.16	4.30	18.52
125	139.7 139.7	4.5 4.8	15.00 15.97	19.11 20.34	13417 13295	4389 -4389	4106 4087	437.20 463.33	62.59 66.33	4.78 4.77	22.87 22.78
125	139.7	4.8 5.4	15.97	20.34 22.78	13295	-4389 4389	4087	463.33 514.50	73.66	4.77 4.75	22.78
	152.4	4.5	16.41	20.91	16151	4788	4505	572.24	75.10	5.23	27.37
135	152.4	4.8	17.47	22.26	16016	4788	4486	606.76	79.63	5.22	27.26
	152.4	5.4	19.58	24.94	15748	4788	4448	674.51	88.52	5.20	27.05
	165.1	4.5	17.82	22.70	19138	5187	4904	732.57	88.74	5.68	32.27
	165.1	4.8	18.98	24.17	18991	5187	4885	777.13	94.14	5.67	32.15
150	165.1	5.4	21.27	27.09	18699	5187	4847	864.70	104.75	5.65	31.92
	165.1	5.9	23.20	29.50	18465	5187	4818	970.00	113.40	5.63	31.72
	165.1	6.3	24.67	31,43	18265	5187	4791	992.28	120.20	5.62	31.57
	165.1	8	30.99	39.48	17460	5187	4684	221.25	147.94	5.56	30.93

IS 4923 - Rectangular

	IS 4923 Y		ow Section Ava	ilable sizes	
		The San Control of the San Control	GULAR SECTION		
Size mm	THICKNESS	kg/m	Size mm	THICKNESS	kg/m
40 x 20	2	1.68	40 x 20	2.5	2.03
40 x 20	3	2.36	40 x 25	1.5	1.44
40 x 25	2	1.89	40 x 25	2.5	2.23
50 x 25	2	2.21	50 x 25	2.5	2.72
50 x 25	3	3.22	50 x 30	2.5	2.92
50 x 30	3	3.45	50 x 30	4.0	4.46
50 x 40	3	3.77	60 x 40	2.0	2.93
60 x 40	2.5	3.71	60 x 40	3.0	4.39
60 x 40	4	5.72	70 x 50	2	3.56
70 x 50	2.5	4.39	70 x 50	3	5.19
70 x 50	4	6.71	80 x 40	2.5	4.26
80 x 40	3	5.34	80 x 40	4	6.97
80 x 40	5	8.54	80 x 50	3	5.66
80 x 50	4	7.34	90 x 50	3	6.28
90 x 50	3.6	7.46	90 x 50	5	10.11
100 x 50	2.5	5.63	100 x 50	3	6.75
100 x 50	4	8.86	100 x 50	5	10.9
100 x 60	3	7.22	100 x 60	3.6	8.59
100 x 60	5	11.7	120 x 80	2.5	7.65
120 x 80	3	9.03	120 x 80	4	12
120 x 80	5	14.8	120 x 80	6	17.6
120 x 80	8	22.9	150 x 100	5	18.7
150 x 100	6	22.3	150 x 100	8	29.1
160 x 80	6	21.3	160 x 80	5	18
200 x 100	5	22.7	160 x 80	8	27.9
200 x 100	8	35.4	200 x 100	6	27

IS 4923 - Square

IS 4923 YST 310 Hollow Section Available sizes								
GI -SQUARE SECTION								
Size mm	THICKNESS	kg/m	Size mm	THICKNESS	kg/m			
20 x 20	2	1.12	20 x 20	2.5	1.35			
25 x 25	1.5	1.06	25 x 25	2	1.43			
25 X 25	2.5	1.74	25 X 25	3	2.04			
30 X 30	2	1.68	30 X 30	2.5	2.14			
30 X 30	3	2.51	40 x 40	1.5	1.81			
40 x 40	2	2.31	40 x 40	2.5	2.92			
40 x 40	3	3.45	40 x 40	4	4.46			
40 x 40	5	5.4	50 x 50	1.5	2.28			
50 x 50	2	2.93	50 x 50	2.5	3.71			
50 x 50	3	4.39	50 x 50	4	5.72			
50 x 50	5	6.97	60 x 60	3	5.34			
60 x 60	4	6.97	60 x 60	5	8.54			
60 x 60	6	9.45	70 x 70	3	6.28			
70 x 70	3.6	7.46	70 x 70	5	10.11			
70 x 70	6.3	12.5	70 x 70	8	15.3			
75 x 75	3	7.07	80 x 80	3	7.22			
80 x 80	3.6	8.59	80 x 80	5	11.7			
80 x 80	6	13.9	90 x 90	3	8.01			
90 x 90	3.6	9.72	90 x 90	5	13.3			
90 x 90	6	15.76	90 x 90	8	20.4			
100 x 100	3	8.96	100 x 100	4	12			
100 x 100	5	14.8	100 x 100	5	14.8			
100 x 100	6	16.19	100 x 100	8	22.9			
120 x 120	6	21.3	120 x 120	5	18			
120 x 120	8	27.9	120 X 120	6.3	22.3			
140 X 140	5	21.1	140 X 140	6.3	26.3			
140 X 140	8	32.9	150 X 150	5	22.7			
150 X 150	6.3	28.3	150 X 150	8	35.4			
180 X 180	5	27.4	180 X 180	6.3	34.2			
180 X 180	8	43	200 X 200	6	35.8			
200 x 200	5	30.5	200 x 200	8	48			
200 x 200	6.3	38.2						
TOLERANCE: ±5%								

Features of JAIN TUBES ZX⁺

Anti-Rust: GI zx⁺ Pipes due to the extra coating of zinc on the outer and inner layers are resistant to rust.

Excess Temperature: Gl zx⁺ Pipes can work with high-temperature fluids and is also suitable for freezing conditions.

Strength and Durability: Its stands for more than 40 to 50 years in the same conditions because of its zx⁺ extra coating. And it's more reliable for smarter investments.

Bendable: GI zx^+ pipes are easily bendable and can also be fabricated easily.

Manufacturing as per Indian & International Standards

JAIN TUBES GI - ZX+ are Manufacturing as per Indian & International Standard specification.

• IS 4923 for square and rectangular steel tube

• IS 1239, IS 1161 & IS 3601 for circular steel tube



Test Certificate - For every lot of JAIN TUBES GI - ZX+ test certificate is-provided.

Quality Control - Each & every tube manufactured at JAIN TUBES's state of-the-art facility conforms to the highest quality standards. This is a result of superior manufacturing processes and stringent quality control at every step, which is part of JAIN TUBES's ISO 9000 quality management system. Tests such as non destructive eddy current testing directly after ERW welding, off-line drift and attening tests are part of the quality process and ensure standards that match the best. Hence, each & every tube which reaches market are free from defects.

Applications of JAIN TUBES ZX⁺



Constructions

Jain zx⁺ are lightweight and easy to transport and install. And which is strong, durable and resistant to dust and abrasion. Because of corrosion resistant and cost effective than a concrete building we can use Jain tubes for PEB purposes. This can be used as Hand railings, Gates, Windows, Roof sheds, Furniture. All these applications are in construction field.



Green House

A greenhouse is a structure that allows people to regulate climatic conditions, such as temperature and humidity. There are many different designs of greenhouses; however in general three buildings include large areas of transparent material to capture the light and heat of the sun. For the construction of Greenhouses we can use the Jain Tubes ZX.



Waterline

Conveying raw water and distribution of treated water in many rural water supply schemes, where the requirement of water is limited. For the purpose of irrigation, drinking water lines, sewage etc.



Industrial

In construction projects, the choice of materials holds immense influence over the durability, longevity, and overall quality of the end product. It holds the features low cost, versitality toughness & strength of the product. Sheds, fencing, automobile applications, solar system, boilers are the common applications of GI Pipes in the industrial area.



Others

For the applications of tower, Streetlights, cable poles and for EB Pipe lines GI Pipes are the main product. Becasue of the same feature the GI Pipes are used for the purposes of tower and etc.

