

Per-Galvanized Pipe

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- Dimensions and Size of Per-Galvanized Pipe
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•What is Per-Galvanized Pipe

•Per-Galvanized Pipe

A pre-galvanized pipe, also known as inline galvanized pipe or continuous galvanized pipe, is a type of pipe that is made of pre-galvanized coils and strips. This material has been pre-coated with a layer of zinc before rolling into a pipe. This coat helps to protect the pipe from corrosion and also provides a barrier against weld seam corrosion. The coating is applied before the pipe is welded, and the entire process is typically done in a factory setting. First, the steel strip is cleaned and then a coat of zinc is applied. The strip is then passed through a series of rollers to form it into a pipe shape. Next, the weld seam is created, and finally, the pipe undergoes a final spray coating of zinc. This coat helps to protect the weld seam from corrosion. Pre-galvanized pipes are often used in construction and manufacturing applications where they are exposed to corrosive materials.

•Dimensions and Size of Per-Galvanized Pipe

DN	O.D.		W.T.							
	Inch	mm	SCH5S	SCH10S	SCH10	SCH20	SCH30	SCH40	SCH60	SCH80
50	2"	60.3	1.65	2.77	—	—	—	3.91	—	5.54
65	2 1/2"	73	2.11	3.05	—	—	—	5.16	—	7.01
80	3"	88.9	2.11	3.05	—	—	—	5.49	—	7.62

90	3 1/2"	101.6	2.11	3.05	—	—	—	5.74	—	8.08
100	4"	114.3	2.11	3.05	—	—	—	6.02	—	8.58
125	5"	141.3	2.77	3.4	—	—	—	6.55	—	9.53
150	6"	168.3	2.77	3.4	—	—	—	7.11	—	10.97
200	8"	219.1	2.77	3.76	—	6.35	7.04	8.18	10.31	12.7
250	10"	273.1	3.4	4.19	—	6.35	7.8	9.27	12.7	15.09
300	12"	323.9	3.96	4.57	—	6.35	8.38	10.31	14.27	17.48
350	14"	355.5	3.96	4.78	6.35	7.92	9.53	11.13	15.09	19.05
400	16"	406.4	4.19	4.78	6.35	7.92	9.53	12.7	16.66	21.44
450	18"	457.2	4.19	4.78	6.35	7.92	11.13	14.27	19.05	23.83
500	20"	508	4.78	5.54	6.35	9.53	12.7	15.09	20.62	26.19
550	22"	558.8	4.78	5.54	6.35	9.53	12.7	—	22.23	28.58
600	24"	609.6	5.54	6.35	6.35	9.53	14.27	17.48	24.61	30.96
DN	Inch	mm	SCH100	SCH120	SCH121	SCH160	Sth	XS	XXS	
50	2"	60.3	—	—	—	8.74	3.91	5.54	11.07	
65	2 1/2"	73	—	—	—	9.53	5.16	7.01	14.02	
80	3"	88.9	—	—	—	11.13	5.49	7.52	15.24	
90	3 1/2"	101.6	—	—	—	—	5.74	8.08	—	
100	4"	114.3	—	11.13	12.13	13.49	6.02	8.56	17.12	
125	5"	141.3	—	12.7	13.7	15.88	6.55	9.53	18.05	
150	6"	168.3	—	14.27	15.27	18.26	7.11	10.97	21.95	
200	8"	219.1	15.09	18.26	19.26	23.01	8.18	12.7	22.23	
250	10"	273.1	18.26	21.44	22.44	28.58	9.27	12.7	25.4	
300	12"	323.9	21.44	25.4	26.4	33.32	9.53	12.7	25.4	
350	14"	355.5	23.83	27.79	28.79	35.71	9.53	12.7	—	
400	16"	406.4	26.19	30.96	31.96	40.49	9.53	12.7	—	
450	18"	457.2	39.36	34.93	35.93	45.24	—	—	—	
500	20"	508	32.54	38.1	39.1	50.01	—	—	—	
550	22"	558.8	34.93	41.28	42.28	53.98	—	—	—	
600	24"	609.6	38.89	46.02	47.02	59.54	—	—	—	

•Difference Between Hot-Dip Galvanizing and Pre-Galvanizing

Feature	Hot Dip Galvanization	Pre-Galvanizing
Coating Thickness	Thick coating with minimum average requirements of 45-85µm within BS EN ISO 1461	The coating thickness may vary, but it is typically circa 20 µm for sheets and 20-30µm for tubes
Coating Continually	Continuous coating over the whole object	The uncoated area at cut edges
Coating Bond	Strong metallurgical bond with the base steel	Strong metallurgical bond with the base steel
Coating Formability	Forming after hot dipped galvanizing is not advised as it may damage the coating	A thin coating may be normally formed without any damage
Coating Appearance	Normally bright, but can be variable	Normally bright
Abrasion Resistance	A thicker layer of hard zinc-iron alloy gives a high resistance to abrasion	Thin alloy layer with reduced resistance to abrasion
Sacrificial Protection	Offer the highest level of sacrificial protection	Reduced sacrificial protection due to thin layer coating and at some uncoated areas (cut edges)