

Steel Pipes DIN 2440

Nominal Diameter ["]	Outer Diameter [mm]	Wall Thickness [mm]	Weight of Pipe [kg/m]	Internal Volume [l/m]	Water Filled Pipe (approx) [kg/m]
1/4"	13.5	2.4	0.7	0.1	0.7
3/8"	17.2	2.4	0.9	0.1	1.0
1/2"	21.3	2.7	1.3	0.2	1.5
3/4"	26.9	2.7	1.7	0.4	2.0
1"	33.7	3.3	2.6	0.6	3.1
1 1/4"	42.4	3.3	3.3	1.0	4.3
1 1/2"	48.3	3.3	3.8	1.4	5.1
2"	60.3	3.7	5.3	2.2	7.5
2 1/2"	76.1	3.7	6.8	3.7	10.5
3"	88.9	4.1	8.9	5.1	14.0
4"	114.3	4.6	12.6	8.7	21.3
5"	139.7	4.9	16.9	1.3	30.2
6"	165.1	4.9	20.1	2.0	39.1

Steel Pipes DIN 2448

Outer Diameter [mm]	Wall Thickness [mm]	Weight of Pipe [kg/m]	Internal Volume [l/m]	Water Filled Pipe (approx) [kg/m]
13.5	1.8	0.5	0.1	0.6
16.0	1.8	0.6	0.1	0.8
17.2	1.8	0.7	0.2	0.8
20.0	2.0	0.9	0.2	1.1
21.3	2.0	1.0	0.2	1.2
25.0	2.0	1.1	0.4	1.5
26.9	2.3	1.4	0.4	1.8
30.0	2.6	1.8	0.5	2.3
31.8	2.6	1.9	0.6	2.4
33.7	2.6	2.0	0.7	2.6
38.0	2.6	2.3	0.9	3.1
42.4	2.6	2.6	1.1	3.7
44.5	2.6	2.7	1.2	3.9
48.3	2.6	3.0	1.5	4.4
51.0	2.6	3.1	1.7	4.8
57.0	2.9	3.9	2.1	6.0
60.3	2.9	4.4	2.3	6.4
63.5	2.9	4.4	2.6	7.0
70.0	2.9	4.8	3.2	8.1
76.1	2.9	5.3	3.9	9.2
82.5	3.2	6.3	4.6	1.9
88.9	3.2	6.8	5.3	12.2
101.6	3.6	8.8	7.0	15.8
108.0	3.6	9.3	8.0	17.3
114.3	3.6	9.9	9.0	18.9
127.0	4.0	12.2	11.1	23.3
133.0	4.0	12.8	12.3	25.1
139.7	4.0	13.5	13.6	27.1
152.4	4.5	16.4	16.1	32.5
159.0	4.5	17.1	17.7	34.8
165.1	4.5	17.8	19.1	36.9
168.3	4.5	18.1	19.9	38.0
177.8	5.0	21.3	22.1	43.4
193.7	5.4	25.0	26.3	51.3
219.1	5.9	31.0	33.7	64.7
244.5	6.3	37.1	42.2	79.3
267.0	6.3	40.6	50.8	91.4

MATERIALS

RAW MATERIAL

- **Steel**

Hot rolled low carbon steel. European Standard EN 10051

COATINGS AND FINISHES

- **Electro Bright Zinc Plated (BZP)**

The steel pipe clamps have an anti-corrosion protection consisting of a zinc coating applied by an electrolytic process.

This coating provides a protective layer over the steel clamp with a thickness of minimum 5 micron.

- **Yellow Zinc Plated**

The process of "yellow zinc plating" is very similar to the process of "galvanising" but with an additive neutraliser that establishes the covering.

RUBBER INSULATION

STANDARD RUBBER



Base Material	EPDM
Colour	Black
Density	1.32 g/cm ³
Hardness	45 Shore
Sound reduction	18 db(A), DIN 4109
Resistance to traction	91 kg/cm ²
Resistance to stretch	S/ ASTM D-624 Tipo C, l: 24,9 kg/cm
Resistance to external conditions and atmospherical agents	Excellent
Temperature resistance	-40 + 110° C
Fire resistance	Class B2 (according to DIN 4102)

Ramset recommends application tests on-site before commencing use.