SURANI

SURANI STEEL

Mfg. of ERW MS Pipe

STRENGTH YOU NEED FOR TOMORROW

SURANI

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Mfg. of ERW MS Pipe

SURANI STEEL TUBES LIMITED.
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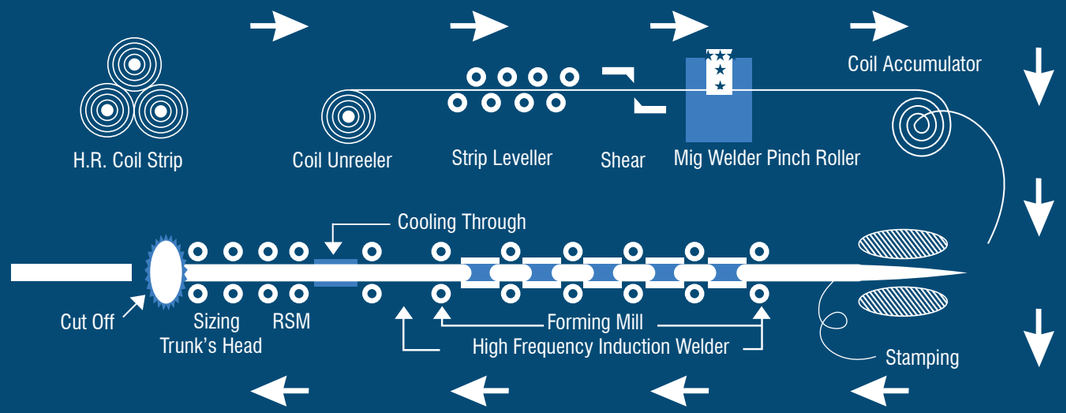
COMPANY PROFILE

Surani Steel is today a vast conglomerate having business interest in ERW MS pipes and tubes manufacturing. With its strong conviction, the business corporation has reserved its rightful position in the market. Surani Steel's modernized and state of the art production facility is based at Gujarat. We are having presence in Commercial, Structural and Engineering Sector with our wider range of ERW Pipes.

Our constant effort is to produce pipes of highest quality and sustainability. To achieve this, we stick to strict quality standards, continuous in-house evaluations and training of our workforce. Our company has been constantly executing regular as well as customized orders for pipes to meet the requirements of vivid sectors.

Surani Steel has a highly experienced talented team, contemporary technology, efficiency oriented environment and accurate production facility to help in cultivating further growth of the organization as well as the economy of the nation.

FLOW CHART



QUALITY AND STRENGTH

The quality of our product is controlled during the manufacturing process. It starts with slitting the strip edges, continues with speed, temperature control during the high frequency induction welding.

Surani Steel carries out a Quality Management System certified in accordance with our well-maintained UT Machine, Hydro testing Machine and many other types of equipment in its premises which checks from, Raw material to Finished Goods.

The strength of Surani Steel lies in producing some of the best quality and ranges of MS pipes made through intensive procedures like Electrical Resistance Welding; these are made of mild steel. It has achieved remarkable success in producing Steel Tubes which includes Nominal Bore ranging from 20 MM to 100 MM with a measured breadth of 1.6 MM to 5 MM with a length of up to 12 Meters. Surani Steel works on the motive of Customer's satisfaction is prior than any other thing.

dun & bradstreet

IS : 4923

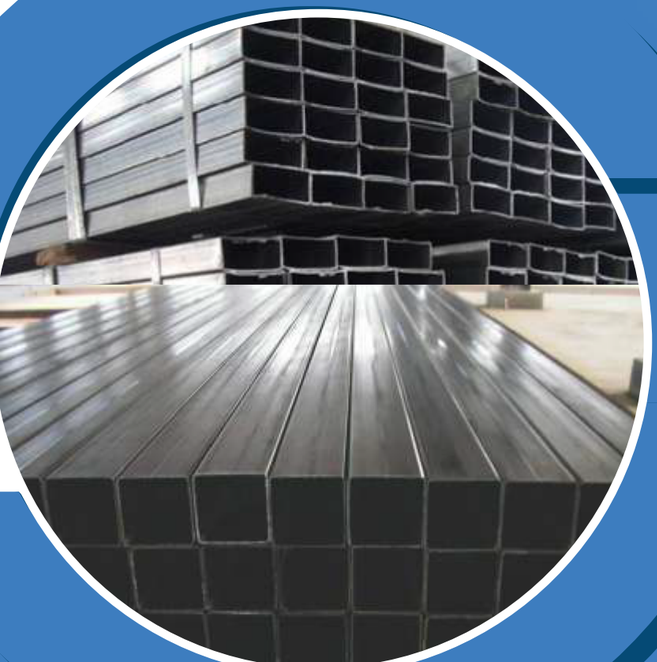
CM/L2947375

RHS

Dimensions and Properties of Rectangular Hollow Sections IS 4923:1997

RHS mm	Thickness mm	Sec Area cm^2	Unit kg/m	Moment of Inertia cm^4	cm^4	Radius of Gyration cm	cm	Elastic Modulus cm^3	cm^3	Torsional Constants cm^4	cm^3	Outer Surface Area m^2
50x25	2	2.74	2.15	8.38	2.81	1.75	1.01	3.35	2.25	6.97	3.79	0.142
	2.6	3.46	2.71	10.16	3.36	1.71	0.99	4.06	2.69	8.27	4.53	0.137
	3.2	4.13	3.24	11.63	3.8	1.68	0.96	4.35	3.04	9.52	5.12	0.134
	4	4.95	3.88	13.13	4.23	1.63	0.92	5.25	3.38	10.86	5.69	0.129
60x40	2.6	4.76	3.73	22.76	12.09	2.19	1.59	7.59	6.05	25.59	9.83	0.187
	2.9	5.25	4.12	24.74	13.11	2.17	1.58	8.25	6.56	28.02	10.66	0.185
	3.6	6.35	4.98	28.9	15.23	2.13	1.55	9.63	7.62	33.3	12.41	0.181
	4.5	7.67	6.02	33.31	17.44	2.08	1.51	11.1	872	39.34	14.29	0.177
66x33	2.6	4.7	3.69	25.15	8.43	2.31	1.34	7.62	5.11	20.75	8.71	0.185
	2.9	5.19	4.07	27.33	9.12	2.29	1.33	8.28	5.53	22.65	9.43	0.183
	3.6	6.28	4.93	31.87	10.52	2.25	1.29	9.66	6.37	26.71	10.9	0.179
	4.5	7.58	5.95	36.64	11.93	220	1.25	11.1	7.23	31.21	12.43	0.175
80x40	2.6	5.8	4.55	46.58	15.74	2.84	1.65	11.65	7.87	38.5	13.46	0.227
	2.9	6.41	5.03	50.87	17.11	2.82	1.63	12.72	8.56	42.23	14.66	0.225
	3.2	7.01	5.5	54.94	18.41	2.8	1.62	13.74	9.21	45.83	15.78	0.224
	4	8.55	6.71	64.79	21.49	2.75	1.59	16.2	10.74	54.77	18.49	0.219
	4.8	10.01	7.85	73.22	24.03	2.71	1.55	18.3	12.02	62.81	20.79	0.215
96x48	3.2	8.54	6.71	98.61	33.28	3.4	1.97	20.54	13.87	82.13	23.82	0.272
	4	10.47	8.22	117.54	39.32	3.35	1.94	24.49	16.38	99.11	28.24	0.267
	4.8	12.31	9.66	134.35	44.55	3.3	1.9	27.99	18.56	114.8	32.14	0.263
122x61	3.6	12.32	9.67	232.61	78.83	4.34	2.53	38.13	25.84	193.91	44.5	0.347
	4.5	15.14	11.88	278.94	93.78	4.29	2.49	45.73	30.75	235.39	53.13	0.343
	5.4	17.85	14.01	320.83	107.03	4.24	2.45	52.6	35.09	347.29	60.89	0.338
120x60	3.2	10.85	8.51	199.88	67.95	4.29	2.5	33.31	22.65	165.83	28.95	0.344
	3.6	12.11	9.5	220.75	74.77	4.27	2.48	36.79	24.92	184.1	42.91	0.341
	4.5	14.87	11.67	264.52	88.88	4.22	2.44	44.09	29.63	223.34	51.19	0.337
145x82	4.8	20.28	15.92	555.16	22850	5.23	3.36	76.57	55.73	534.27	94.45	0.429
	5.4	22.6	17.74	610.85	250.59	5.2	3.33	84.26	61.12	592.7	103.81	0.426

Grade	Y.S. (MIN) MPA	T.S. (MIN) MPA
YST-210	210 (21.42)	330 (33.66)
YST-240	240 (24.48)	410 (41.82)
YST-310	310 (31.62)	450 (45.90)



SHS

Dimensions and Properties of Square Hollow Sections IS 4923:1997

Grade	Y.S. (MIN) MPA	T.S. (MIN) MPA
YST-210	210 (21.42)	330 (33.66)
YST-240	240 (24.48)	410 (41.82)
YST-310	310 (31.62)	450 (45.90)

RHS mm	Thickness mm	Sec Area cm^2	Unit kg/m	Moment of Inertia cm^4	cm^4	Radius of Gyration cm	cm	Elastic Modulus cm^3	cm^3	Torsional Constants cm^4	cm^3	Outer Surface Area m^2
25x25	1.6	1.43	1.12	1.28	1.28	0.94	0.94	1.02	1.02	1.96	1.46	0.092
	2	1.74	1.36	1.48	1.48	0.92	0.92	1.19	1.19	2.29	1.68	0.09
	2.6	2.16	1.69	1.72	1.72	0.89	0.89	1.38	1.38	2.86	1.92	0.087
	3.2	2.53	1.98	1.89	1.89	0.86	0.86	1.51	1.51	2.96	2.07	0.084
32x32	2	2.3	1.8	3.36	3.36	1.21	1.21	2.1	2.1	5.3	3.05	0.118
	2.6	2.88	2.26	4.02	4.02	1.18	1.18	2.51	2.51	6.45	3.63	0.115
	3.2	3.42	2.69	4.54	4.54	1.15	1.15	2.84	2.84	7.41	4.07	0.112
38x38	2	2.78	2.18	5.88	5.88	1.46	1.46	3.1	3.1	9.31	4.54	0.142
	2.6	3.51	2.75	7.14	7.14	1.43	1.43	3.76	3.76	11.51	5.49	0.139
	3.2	4.19	3.29	8.18	8.18	1.4	1.4	4.3	4.3	13.45	6.28	0.136
	4	5.03	3.95	9.26	9.26	1.36	1.36	4.87	4.87	15.67	7.12	0.131
40x40	2.6	3.72	2.92	8.45	8.45	1.51	1.51	4.22	4.22	13.63	6.2	0.147
	2.9	4.09	3.21	9.11	9.11	1.49	1.49	4.56	4.56	14.85	6.68	0.145
	3.2	4.45	3.49	9.72	9.72	1.48	1.48	4.86	4.86	16	7.12	0.144
	4	5.35	4.2	11.07	11.07	1.44	1.44	5.54	5.54	18.75	8.12	0.139
49.5x49.5	2.6	4.7	3.69	16.91	16.91	1.9	1.9	6.83	6.83	27.19	10.11	0.185
	2.9	5.19	4.07	18.37	18.37	1.88	1.88	7.42	7.42	29.81	10.98	0.183
	3.6	6.28	4.93	21.42	21.42	1.85	1.85	8.66	8.66	35.54	12.81	0.179
	4.5	7.58	5.95	24.64	24.64	1.8	1.8	9.96	9.96	42.15	14.79	0.175
60x60	2.6	5.8	4.55	31.33	31.33	2.33	2.33	10.44	10.44	50.08	15.52	0.227
	2.9	6.41	5.03	34.21	34.21	2.31	2.31	11.4	11.4	56.12	16.95	0.225
	3.2	7.01	5.5	36.94	36.94	2.3	2.3	12.31	2.81	60.02	18.31	0.224
	4	8.55	6.71	43.55	43.55	2.26	2.26	14.52	14.52	72.41	21.62	0.219
	4.8	10.01	7.85	49.22	49.22	2.22	2.22	16.41	16.41	83.86	24.51	0.215
72 x72	3.2	8.54	6.71	66.32	66.32	2.79	2.79	18.42	18.42	106.81	27.47	0.272
	4	10.47	8.22	79.03	79.03	2.75	2.75	21.95	21.95	129.85	32.78	0.267
	4.8	12.31	9.66	90.31	90.31	2.71	2.71	25.09	25.09	151.55	37.55	0.263
	4	11.75	9.22	111.04	111.04	3.07	3.07	27.76	27.76	181.22	41.49	0.299
	4.8	13.85	10.87	127.58	127.58	3.04	3.04	31.89	31.89	212.26	47.77	0.295
91.5x91.5	3.6	12.32	9.67	156.49	156.49	3.56	3.56	34.21	34.21	251.17	41.14	0.347
	4.5	15.4	11.88	187.57	187.57	3.52	3.52	41	41	306.78	61.14	0.343
	5.4	17.85	14.01	215.68	215.68	3.48	3.48	47.14	47.14	359.76	70.77	0.338
100x100	4	14.95	11.73	226.35	226.35	3.89	3.89	45.27	45.27	364.75	67.5	0.379
	5	18.36	14.41	271.1	271.1	3.84	3.84	54.22	54.22	441.84	80.54	0.374
	6	21.63	16.98	311.47	311.47	3.79	3.79	62.29	62.29	511.8	92.06	0.369
	5.4	28.32	22.23	843.53	843.53	54.58	54.58	120.5	120.5	-	-	0.56
	6	31.23	24.52	920.37	920.37	54.29	54.29	131.48	131.48	-	-	0.56
	8	40.59	31.86	1153.83	1153.83	53.32	53.32	164.83	164.83	-	-	0.56
113.5x113.5	4.8	20.28	15.92	393.3	393.3	4.4	4.4	69.3	69.3	637.45	103.89	0.429
	5.4	22.6	17.74	432.58	432.58	4.38	4.38	76.23	76.23	708.69	114.41	0.426

ROUND

INDIAN STANDARDS

N.B.	Series	Outside Diameter MM	Thickness MM	Nominal Weight Black Tube Plain End Kg/M	Meters Tonne	Calculated Nominal Weight Galvanized Tubes Plain End Kg/M	Meters Tonne
20	L	26.9	2.3	1.38	725	1.43	699
	M		2.6	1.56	641	1.61	221
	H		3.2	1.87	535	1.92	521
25	L	33.7	2.6	1.98	505	2.03	493
	M		3.2	2.41	415	2.46	407
	H		4	2.93	341	2.98	336
32	L	42.4	2.6	1.54	394	2.62	382
	M		3.2	3.1	323	3.18	314
	H		4	3.79	264	3.87	258
40	L	48.3	2.9	3.23	310	3.34	299
	M		3.2	3.56	281	3.67	272
	H		4	4.37	229	4.48	223
50	L	60.3	2.9	4.08	245	4.2	238
	M		3.2	5.03	199	5.15	194
	H		4	6.19	162	6.31	158
65	L	76.1	3.2	5.71	175	5.86	171
	M		3.6	6.42	156	6.57	152
	H		4.5	7.93	126	8.1	123
80	L	88.9	3.2	6.72	149	6.9	145
	M		4	8.36	120	8.54	117
	H		4.8	9.9	101	10.08	99
100	L	114.3	3.6	9.75	103	9.97	100
	M		4.5	12.2	82	12.42	81
	H		5.4	14.5	69	14.72	68

Grade	Y.S. (MIN) MPA	T.S. (MIN) MPA
YST-210	210 (21.42)	330 (33.66)
YST-240	240 (24.48)	410 (41.82)
YST-310	310 (31.62)	450 (45.90)

UPCOMING SIZE CHART

ROUND

NB (MM)	OD (MM)	THICKNESS (mm) MIN	MAX
150	168	2.0	8.0
175	193	2.0	8.0
200	219	3.0	8.0
250	273	3.0	8.0
300	323	3.0	8.0

SQUARE

SIZE (mm)	THICKNESS (mm) MIN	MAX
132 X 132	2.5	6.0
150 X 150	3.0	8.0
180 X 180	3.0	8.0
220 X 220	3.0	8.0
250 X 250	3.0	8.0

RECTANGULAR

SIZE (mm)	THICKNESS (mm) MIN	MAX
172 X 92	3.0	8.0
200 X 100	3.0	8.0
240 X 120	3.0	8.0
300 X 150	4.0	10.0

MANUFACTURING & MODERN FACILITY CREDENTIALS

Erw pipes are made from hr coils manufactured & supply by SAIL/JSW/ESSAR/TATA. After being longitudinally slitted & edge preparation, the strip is progressively formed into a circular shape by passing it through a series of forming rolls.

An uncompromising test is being carried out before the final process of dispatching as per the standards and specification of customer's requirement.

To ensure product reliability through process control, Surani has a fully equipped metallurgical laboratory with all the tools essential for comprehensive product quality testing and evaluation to withstand reactive processes.

APPLICATION

Architectural

Shopping Malls
Canopies/Atrium
Glass Curtain Wall Frames
Partition Frames
Space Frames
Guard Rails & Staircases

Infrastructural

Airport Terminal Buildings
Bridges
Bus Stands
Sign Supporting Structures
Pedestrian Walkovers (Footbridge)
Sports Galleries
Railways Platforms / Foot Over Bridges
Gym Equipments

Industrial

Industrial Sheds
Trusses, Columns and Purlins
Material Storage Racks
Mine Roof Support Systems (cogs, props)
Pallets
Pipe Racks
Conveyor Gantries, Trestles
Drilling Rigs
Steel & Power Plants

Engineering

Greenhouse Structures
Truck & Bus Body Members
Hoarding Structures
Amusement Park & Playground Equipment
Scaffolding
Furniture
Solar Power Plant Structures
Marine Structure