الشـركة الأردنيـة لصناعـة الأنابيـب م.ع.م.

Jordan Pipes Manufacturing Co. Ltd.

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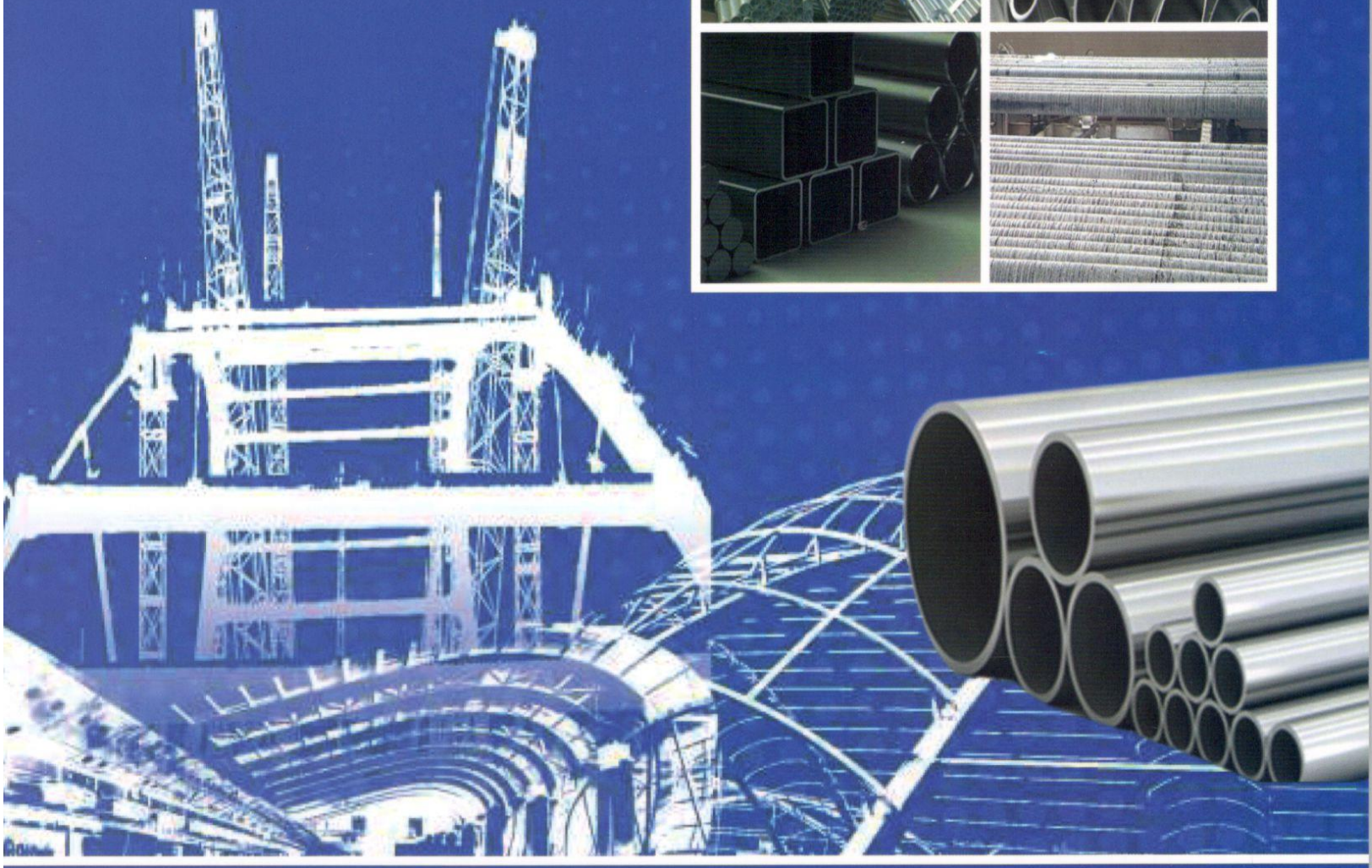


(Sales) Mobile: 0790877755 Email: sales@jopipes.com

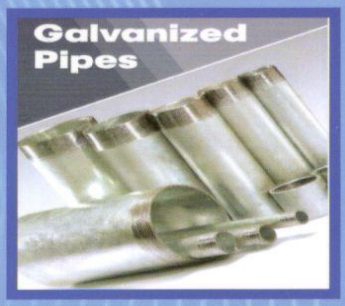
About us:

Jordan Pipes Manufacturing Co., Ltd. (JPMC) is public share-holding company, located in Zarqa City.

JPMC products include:

* Galvanized Seam Welded Steel Pipes
* Black Seam Welded Steel Pipes
* Agricultural Steel Pipes
* Coated Pipes
* Square & Rectangular Tubes
* Windows & Doors Profiles
* Tubular Steel Poles
* Lattice Steel Poles

Galvanized Seam Welded Steel Pipes



According to BS EN 10225/2004 , Steel Grade St- 37							
Class	Nominal Diameter (DN)	Designation of Thread	Outside Diameter		Thickness	Mass Per Unit Length of Bare Tube	
	MM	Inch	Max.	Min.	MM	plain end	Threaded& Socketed
			MM	MM		Kg/m	Kg/m
Light (L2) (CLASS A)	15	1/2	21.40	21.00	2.0	0.947	0.956
	20	3/4	26.90	26.40	2.3	1.38	1.39
	25	1	33.80	33.20	2.6	1.98	2.00
	32	11/4	42.50	41.90	2.6	2.54	2.57
	40	11/2	48.40	47.80	2.9	3.23	3.27
	50	2	60.20	59.60	2.9	4.08	4.15
	65	21/2	76.00	75.20	3.2	5.71	5.83
	80	3	88.70	87.90	3.2	6.72	6.89
	100	4	113.90	113.00	3.6	9.75	10.00
Medium (CLASS B)	15	1/2	21.80	21.00	2.6	1.21	1.22
	20	3/4	27.30	26.50	2.6	1.56	1.57
	25	1	34.20	33.30	3.2	2.41	2.43
	32	11/4	42.90	42.00	3.2	3.10	3.13
	40	11/2	48.80	47.90	3.2	3.56	3.60
	50	2	60.80	59.70	3.6	5.03	5.10
	65	21/2	76.60	75.30	3.6	6.42	6.54
	80	3	89.50	88.00	4	8.36	8.53
	100	4	115.00	113.10	4.5	12.20	12.50
	125	5	140.80	138.50	5	16.60	17.10
	150	6	166.50	163.90	5	19.80	20.40
Heavy (CLASS C)	15	1/2	21.80	21.00	3.2	1.44	1.45
	20	3/4	27.30	26.50	3.2	1.87	1.88
	25	1	34.20	33.30	4	2.93	2.95
	32	11/4	42.90	42.00	4	3.79	3.82
	40	11/2	48.80	47.90	4	4.37	4.41
	50	2	60.80	59.70	4.5	6.19	6.26
	65	21/ 2	76.60	75.30	4.5	7.93	8.05
	80	3	89.50	88.00	5	10.30	10.50
	100	4	115.00	113.10	5.4	14.50	14.80
	125	5	140.80	138.50	5.4	17.90	18.40
	150	6	166.50	163.90	5.4	21.30	21.90

Class	TOLERANCES	
	Wall Thickness	Mass
Light (Class A)	(- 8%) with plus tolerance limited by the mass tolerance	(- 8%, + 10%) on individual tubes
Medium (Class B)	± 10%	± 7.5% on bundles of 10 Tons or more
Heavy (Class C)	± 10%	

Remarks:

* The Standard BS 1387/1985 was superseded by BS EN 10255/2004.
* Alternative Standards:

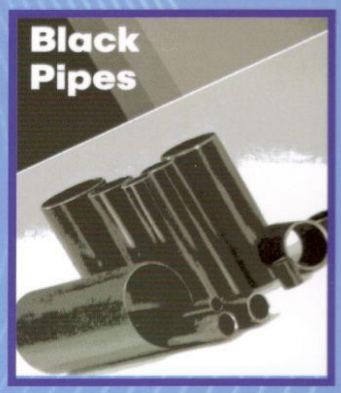
1. Jordanian Standard : JS 137, JQM- TR 17:2015
2. American Standard : ASTM A53/A 53M
3. Germany Standard: DIN 2441 & 2440.

* Light (L2), Medium and Heavy Series Pipes are available according to these standards (Galvanized & Black) Suitable for Water Lines (Cold and Hot), Gas Lines, Fire Fighting, HVAC Lines and Tubular Steel Poles.
* Black and Galvanized Seam Welded Steel Pipes can be supplied threaded with steel Socket according to BS 21/1985 Standard.

Seam Welded Black Steel Pipes

O.D	Masses of Black circular hollow sections welded pipes in Kg/M per relevant wall thickness													
mm	1	1.2	1.5	1.8	2	2.4	2.5	2.8	3	3.5	4	4.3	4.5	5
18	0.42	0.50	0.61	0.72	0.79									
19	0.44	0.53	0.65	0.76	0.84									
20	0.47	0.56	0.68	0.81	0.89									
21	0.49	0.59	0.72	0.85	0.94	1.10	1.14	1.26	1.33					
22	0.52	0.62	0.76	0.90	0.99	1.16	1.20	1.33	1.41					
25	0.59	0.70	0.87	1.03	1.13	1.34	1.39	1.53	1.63					
27	0.64	0.76	0.94	1.12	1.23	1.46	1.51	1.67	1.78					
32	0.76	0.91	1.13	1.34	1.48	1.75	1.82	2.02	2.15	2.46	2.76			
33	0.79	0.94	1.17	1.38	1.53	1.81	1.88	2.09	2.22	2.55	2.86			
38	0.91	1.09	1.35	1.61	1.78	2.11	2.19	2.43	2.59	2.98	3.35			
42	1.01	1.21	1.50	1.78	1.97	2.34	2.44	2.71	2.89	3.32	3.75	4.00	4.16	4.56
48	1.16	1.38	1.72	2.05	2.27	2.70	2.81	3.12	3.33	3.84	4.34	4.63	4.83	5.30
50	1.21	1.44	1.79	2.14	2.37	2.82	2.93	3.26	3.48	4.01	4.54	4.85	5.05	5.55
55	1.33	1.59	1.98	2.36	2.61	3.11	3.24	3.60	3.85	4.45	5.03	5.38	5.60	6.17
60	1.46	1.74	2.16	2.58	2.86	3.41	3.55	3.95	4.22	4.88	5.52	5.91	6.16	6.78
65	1.58	1.89	2.35	2.81	3.11	3.71	3.85	4.30	4.59	5.31	6.02	6.44	6.71	7.40
70	1.70	2.04	2.53	3.03	3.35	4.00	4.16	4.64	4.96	5.74	6.51	6.97	7.27	8.01
76	1.85	2.21	2.76	3.29	3.65	4.36	4.53	5.05	5.40	6.26	7.10	7.60	7.93	8.75
88	2.15	2.57	3.20	3.83	4.24	5.07	5.27	5.88	6.29	7.29	8.29	8.88	9.27	10.23
101	2.47	2.95	3.68	4.40	4.88	5.84	6.07	6.78	7.25	8.42	9.57	10.25	10.71	11.84
114			4.16	4.98	5.52	6.61	6.87	7.68	8.21	9.54	10.85	11.63	12.15	13.44
127				5.56	6.17	7.37	7.68	8.58	9.17	10.66	12.13	13.01	13.59	15.04
140								9.47	10.14	11.78	13.42	14.39	15.04	16.65
165									11.99	13.94	15.88	17.04	17.81	19.73

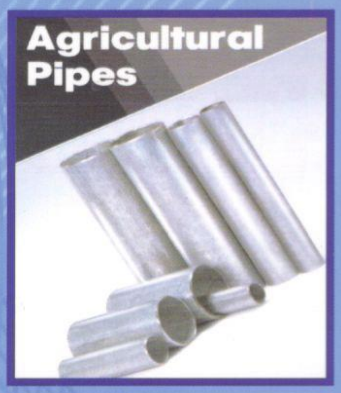
These Black and Agricultural Pipes are Non Standard and can be produced with required thickness and any desired length from 3-7 Meters.



Seam Welded Agricultural Steel Pipes

O.D	Masses of pre-galvanized circular hollow sections Welded pipes in Kg/M per relevant wall thickness							
mm	1.20	1.50	1.80	2.00	2.40	2.50	2.80	3.00
18	0.50	0.61	0.72	0.79	0.92	0.96	1.05	1.11
19	0.53	0.65	0.76	0.84	0.98	1.02	1.12	1.18
20	0.56	0.68	0.81	0.89	1.04	1.08	1.19	1.26
21	0.59	0.72	0.85	0.94	1.10	1.14	1.26	1.33
22	0.62	0.76	0.90	0.99	1.16	1.20	1.33	1.41
25	0.70	0.87	1.03	1.13	1.34	1.39	1.53	1.63
27	0.76	0.94	1.12	1.23	1.46	1.51	1.67	1.78
32	0.91	1.13	1.34	1.48	1.75	1.82	2.02	2.15
33	0.94	1.17	1.38	1.53	1.81	1.88	2.09	2.22
38	1.09	1.35	1.61	1.78	2.11	2.19	2.43	2.59
42	1.21	1.50	1.78	1.97	2.34	2.44	2.71	2.89
48	1.38	1.72	2.05	2.27	2.70	2.81	3.12	3.33
50	1.44	1.79	2.14	2.37	2.82	2.93	3.26	3.48
55	1.59	1.98	2.36	2.61	3.11	3.24	3.60	3.85
60	1.74	2.16	2.58	2.86	3.41	3.55	3.95	4.22
65	1.89	2.35	2.81	3.11	3.71	3.85	4.30	4.59
70	2.04	2.53	3.03	3.35	4.00	4.16	4.64	4.96
76	2.21	2.76	3.29	3.65	4.36	4.53	5.05	5.40
88	2.57	3.20	3.83	4.24	5.07	5.27	5.88	6.29
101	2.95	3.68	4.40	4.88	5.84	6.07	6.78	7.25
114	3.34	4.16	4.98	5.52	6.61	6.87	7.68	8.21
127	3.72	4.64	5.56	6.17	7.37	7.68	8.58	9.17
140	4.11	5.12	6.13	6.81	8.14	8.48	9.47	10.14
165		6.05	7.24	8.04	9.62	10.02	11.20	11.99

The agricultural pipes are coated with zinc spray to prevent the welding line corrosion.

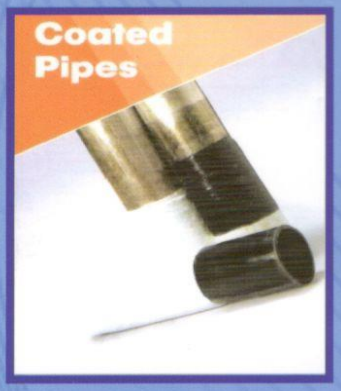


Coated Pipes

JPMC has a coating line where the galvanized pipes with range from 2" - 6" is coated as follows:

* Internal lining : the beveled end pipes are lining by zinc (Hot Dip Galvanizing) according to EN ISO 1461/2009 OR BS EN 10240 or any approved equal standard.

*External coating : the pipes coated externally by layers of oxidized bitumen with fiber glass tisuue according to BS 534 Standard. Where the average coating thickness a long the pipe is (3 - 4) mm



Square Welded Steel Tubes

Masses of square welded steel tubes in Kg/M for relative wall thickness

L * W	O.D (mm)	1.00	1.20	1.50	1.80	2.00	2.40	2.50	2.80	3.00	3.50	4.00	4.30	5.00
S (16*16)	20	0.469	0.556	0.684	0.808	0.888	1.042	1.079	1.188	1.258	1.424	1.578	1.665	1.850
S (20*20)	25	0.592	0.704	0.869	1.030	1.134	1.338	1.387	1.533	1.628	1.856	2.072	2.195	2.466
S (25*25)	32	0.765	0.911	1.128	1.341	1.480	1.752	1.819	2.016	2.146	2.460	2.762	2.937	3.329
S(30*30)	38	0.912	1.089	1.350	1.607	1.776	2.107	2.189	2.431	2.589	2.978	3.354	3.574	4.069
S (40*40)	51	1.233	1.474	1.831	2.184	2.417	2.877	2.990	3.328	3.551	4.100	4.636	4.952	5.672
S(50*50)	62.5	1.517	1.814	2.257	2.695	2.984	3.557	3.699	4.122	4.402	5.093	5.771	6.172	7.090
S(60*60)	76	1.850	2.214	2.756	3.294	3.650	4.356	4.532	5.055	5.401	6.258	7.103	7.603	8.755
S(80*80)	101	2.466	2.953	3.681	4.404	4.883	5.836	6.073	6.781	7.250	8.416	9.569	10.254	11.838
S(100*100)	127	3.107	3.723	4.643	5.558	6.165	7.375	7.676	8.576	9.174	10.660	12.133	13.012	15.044

Rectangular Welded Steel Tubes

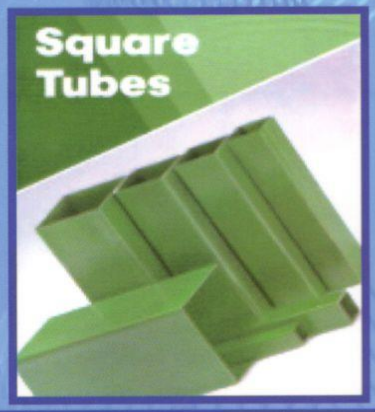
Masses of Rectangular welded steel tubes in Kg /M for relative wall thickness

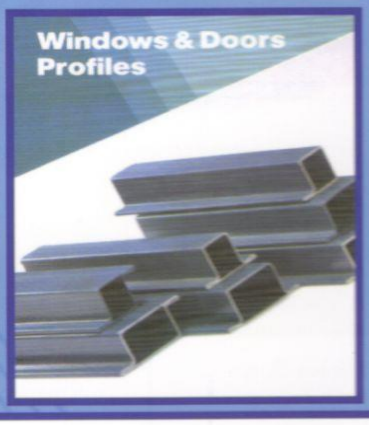
R (20*30)	32	0.765	0.911	1.128	1.341	1.480	1.752	1.819	2.016	2.146	2.460	2.762	2.937	3.329
R(20*40)	38	0.912	1.089	1.350	1.607	1.776	2.107	2.189	2.431	2.589	2.978	3.354	3.574	4.069
R(20*50)	45	1.085	1.296	1.609	1.918	2.121	2.521	2.620	2.914	3.107	3.582	4.044	4.316	4.932
R(25*50)	48	1.159	1.385	1.720	2.051	2.269	2.699	2.805	3.121	3.329	3.841	4.340	4.634	5.302
R(30*60)	57	1.381	1.651	2.053	2.450	2.713	3.232	3.360	3.743	3.995	4.618	5.228	5.589	6.412
R(40*80)	76	1.850	2.214	2.756	3.294	3.650	4.356	4.532	5.055	5.401	6.258	7.103	7.603	8.755
R(40*100)	89	2.170	2.598	3.237	3.871	4.291	5.126	5.333	5.952	6.363	7.380	8.385	8.982	10.358
R(50*100)	95	2.318	2.776	3.459	4.137	4.587	5.481	5.703	6.367	6.807	7.898	8.977	9.618	11.098
R(60*120)	114	2.787	3.338	4.162	4.981	5.524	6.605	6.874	7.679	8.212	9.538	10.851	11.633	13.441

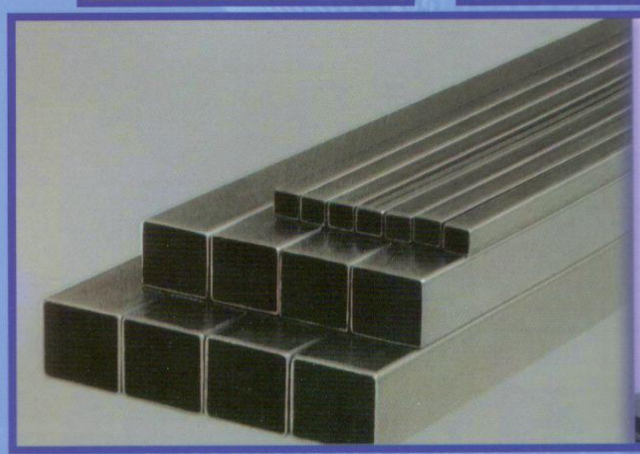
Windows and Doors Profiles

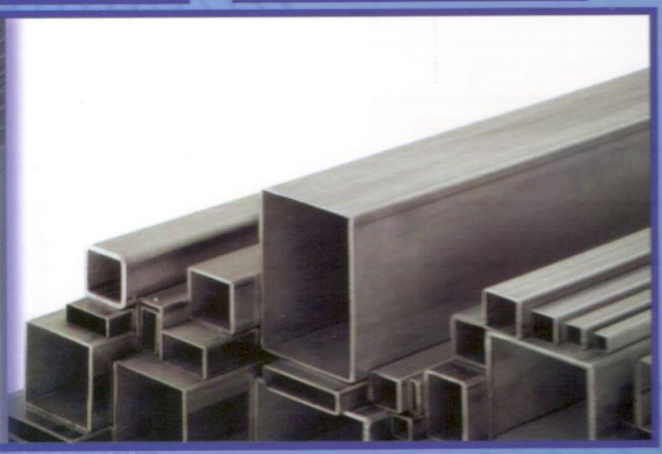
Masses of complicated sections in Kg /M for relative wall thickness

Section	Desc.	O.D (mm)	Size	0.9	1.00	1.20	1.50	1.80	2.00
S44	حلق رفيع	50	L 34X30	1.090	1.208	1.444	1.794	2.140	2.368
S43	T- رفيع	60	T34X30	1.312	1.455	1.740	2.164	2.584	2.861
S42	Z- رفيع	60	Z34X30	1.312	1.455	1.740	2.164	2.584	2.861
S41	حلق عريض	83	L34X80	1.822	2.022	2.421	3.015	3.605	3.995
S28	حلق وسط	65	L34X55	1.423	1.578	1.888	2.349	2.805	3.107
S27	T- عريض	76	T34X55	1.667	1.850	2.214	2.756	3.294	3.650
S26	Z- عريض	76	Z34X55	1.667	1.850	2.214	2.756	3.294	3.650
MT9	الدربزين	43.5	Decoration	0.946	1.048	1.252	1.554	1.851	2.047
40*25 SO	أوفال	38	Semioval	0.823	0.912	1.089	1.350	1.607	1.776









Job Galvanizing

Hot Dip Galvanizing Process consists of dipping clean iron and steel sections into molten Zinc.

Hot Dip Galvanizing Process has many benefits:

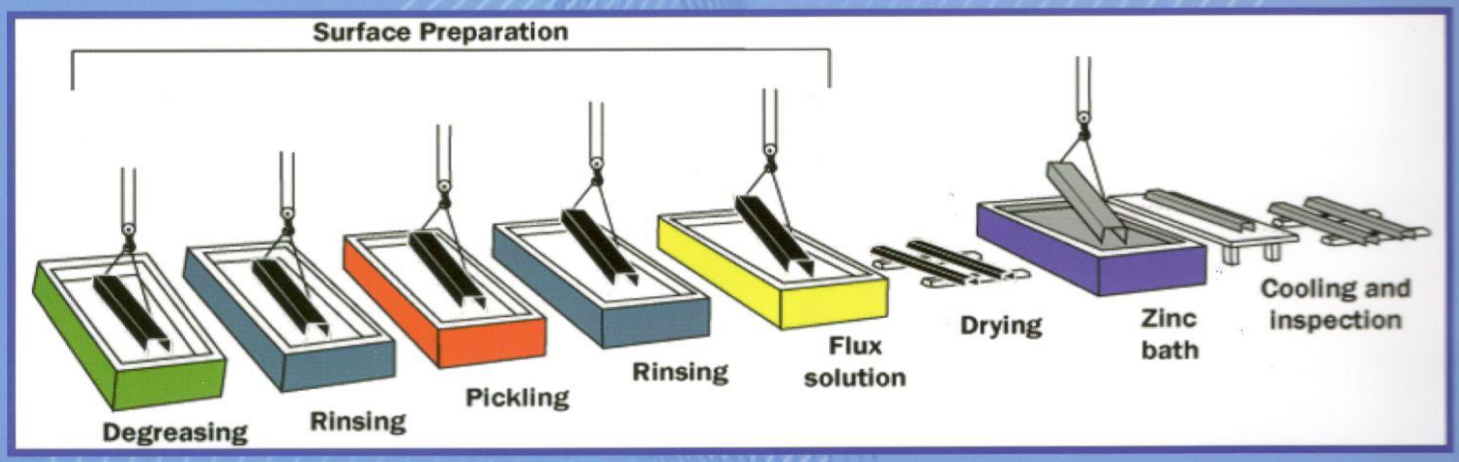
* Corrosion Protection
* Abrasion Resistance
* Uniform Protection
* Complete Coverage and Aesthetics
* Durability
* Longevity and Sustainability

Hot Dip Galvanizing Process

Galvanizing process consists of three basic steps: Surface preparation, galvanizing and inspection.

*Hot Dip galvanizing process:

1. Starts by suspending steel articles and dipping them into a series of cleaning bathes.
2. Once cleaned, the steel is lowered at an angle into a bath of molten Zinc.
3. Immersing the steel on an angle allows air to escape from vented tubular shapes or pockets that may be within the design and permits the molten zinc to displace the air.
4. The steel reacts with the molten zinc to form the galvanized coating.
5. After being withdrew from the zinc molten, the final step in most hot dip galvanizing processes is a quench to promote passivation of the zinc surface.



Standard

Main hot dip galvanizing standard in JPMC is EN ISO1461, Where the minimum coating mass/thickness for articles are shown in the table :

Articles & its Thickness	local coating (minimum)		mean coating (minimum)	
	g/m²	μm	g/m²	μm
Steel > 6mm	505	70	610	85
Steel ≥ 3mm to < 6mm	395	55	505	70
Steel ≥ 1.5mm to < 3mm	325	45	395	55
Steel < 1.5mm	250	35	325	45
Casting ≥ 6mm	505	70	575	80
Casting < 6mm	430	60	505	70

* Alternative Standard: BS EN 10240, DIN 2444 and ASTM A123/ A 123M

Tubular Steel Poles

Tubular Steel Poles are suitable for transmitting low voltage electrical power transmission.

Swaged Type:

Constructed of cold swaged joint of steel tubes jointed together by cold shrinking one end of larger tube and swaged to the end of the smaller tube with an overlapping to form a firm grip that can sustain the required static and dynamics loads on th pole.

Technical Specification for Tubular Steel Poles:

*** Steel Grade of tubes forming the tubular steel poles :**

1- ST -37 (Tensile Strength 370 Mpa)
2- ST -44 (Tensile strength 420 Mpa)
3- ST -52 (Tensile Strength 520 Mpa)

*** Standard :**

The Tubular Steel Poles shall be manufactured from Seam Welded Galvanized Steel Tubes Where the:

1- Manufacturing standard for tubes BS EN 10255/2004 or any Equivalent approved standard

2- Galvanizing Standard , Hot Dip Galvanizing Process according to EN ISO 1461 / 2009.

Overall Length:

Tubular steel poles can be produced with length from (6- 11) Meter with thickness and outside diameter vary as requested.

Lightening Steel Poles:

Tubular Steel Poles can be used as lightening steel poles according to special specifications.

Lattice Steel Poles

Lattice Steel Poles are suitable for transmitting Midium & High voltage electrical power transmission.

Fabrication:

Lattice Steel Poles is Constructed from one section UPN Channels , Flat Bars & Steel Angles and painted two coats epoxy.

Technical Specification for Lattice Steel Poles:

Steel Grade: ST- 37(Tensile Strength 370 Mpa) or Steel Grade ST- 52 (Tensile Strength 520 Mpa)

Lattice Steel Poles Types:

Type	Description	
A	Lattice Steel Poles (14 x 50) cm , Length 12 Meter is made of : 1. UPN 140 ,12 Meter long, Having No Welding Joints(One Section) 2. Flat Par (80/10) mm 3.Steel Angles (50x50x5)mm	OTHER SIZES AND SPECIFICATIONS ARE AVAILABLE
B	Lattice Steel Poles (12 x 50) cm , Length 12 Meter is made of : 1. UPN 120 ,12 Meter long, Having No Welding Joints(One Section) 2. Flat Bar (70/10) mm 3. Steel Angles (50x50x5)mm	
C	Lattice Steel Poles (16 x 50) cm , Length 13 Meter is made of : 1- UPN 160,13 Meter long, Having No Welding Joints(One Section) 2- Flat Bar (100/10) mm 3- Steel Angles (50x50x5)mm	
D	Lattice Steel Poles (16x 50) cm , Length 14 Meter is made of : 1-UPN 160,14 Meter long, Having No Welding Joints(One Section) 2- Flat Bar (100/10) mm 3- Steel Angles (50x50x5)mm	
E	Lattice Steel Poles (16 x 50) cm , Length 15.5 Meter is made of : 1-UPN 160 ,15.5 Meter long, Having No Welding Joints(One Section) 2- Flat Bar (100/10) mm 3- Steel Angles (50x50x5)mm	

* UPN (120,140&160) Standard is DIN 1026