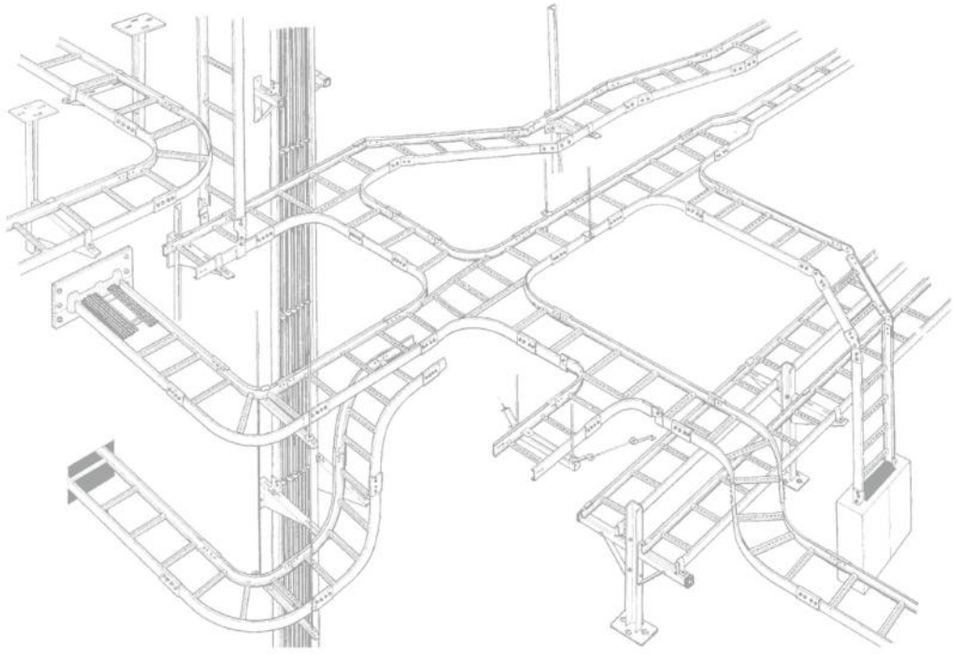
Parmar
METALS PVT. LTD.

Manufacturer of

- Cable Trays and Accessories
- Earthing Material
- Solar Module Mounting Structure
- Lighting Pole
- Electroforged Grating
- Expanded Metal Sheets & Gratings
- Perforated Sheets
- Fasteners
- Hot Dip Galvanize
- Walkway Plank & Warehouse Rack
- Cable Tray & Accessories Embossed



Parmar Metals Pvt. Limited (P.M.P.L) the name which is trusted by our valuable Customers and the Leader amongst the Perforation Companies in India was Established in the year 1983.

The Company is Engaged in the Business of Manufacturing of wide range of Perforated as well as Expanded Metal Products, Perforated & Ladder Type Cable Trays, Accessories, Supporting Systems & Hot Dip Galvanise Plant.

The Company is Situated at Survey No.207, Veraval (Shapar), Rajkot in the State of Gujarat (India). Having Five Factory Buildings with a total built up area of 7500 sq.m. All the factories are equipped with modern High Tech Machineries along with Enthusiastic skilled workforce of 135 Employees.

The initial Principle Business of the Company is involved in Manufacturing and trading of sheets Metals Product. Today, Company's Business is successfully spreading in Private as well as Government sector like Service, Defense, Railway, BHEL, NTPC.

The Company assures and Provides Quality Products at Competitive rates Prompt delivery and Efficient Service which has become the contributory factor to comment a major local Market Share and Established a strong Industries Export Market Position.

THE MAJOR PRODUCT RANGE MANUFACTURED BY PMPL :-

1) Cable Trays

- Perforated Tray and Accessories
- Ladder Tray and Accessories

2) Earthing Material

3) Solar Module Mounting Structure

4) Lighting Pole

- Octagonal Pole
- Swaged Pole

5) Electroforged Grating

6) Expanded Metal Sheets & Gratings

7) Perforated Sheets

8) Fasteners

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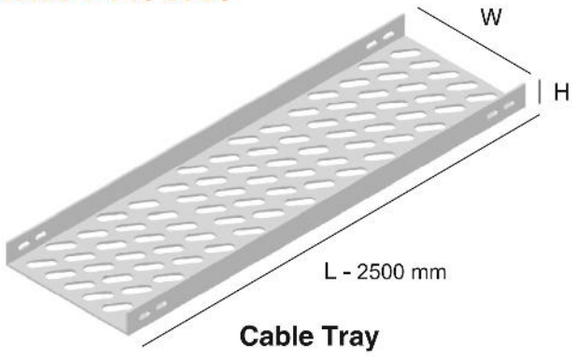
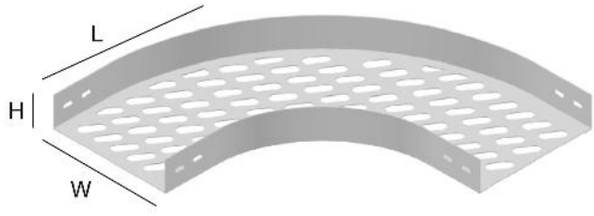


Cable Tray

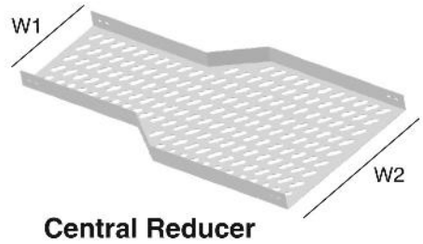
Straight Length **Part No.:PMPL101**

W(mm)	H(mm)	T(mm)
50	25/50	1.6/2
75	25/50	1.6/2
100	25/50	1.6/2
150	25/50	1.6/2
200	25/50	2/2.5
300	25/50	2/2.5
400	25/50	2/2.5
500	25/50	2/2.5
600	25/50	2/2.5

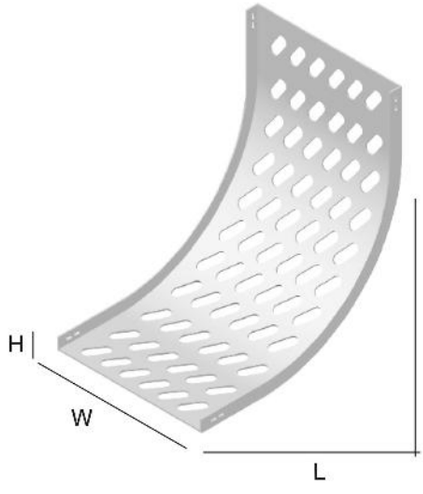
A wide range of sizes is available.



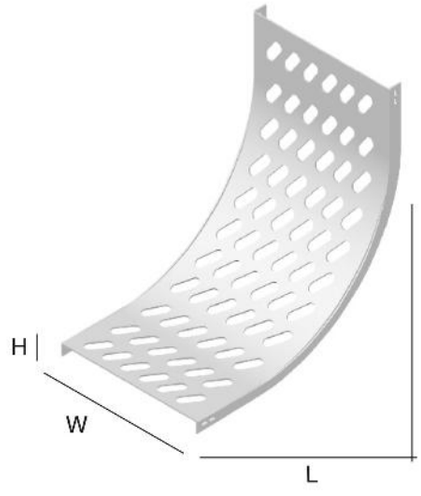
90 Bend-Horizontal



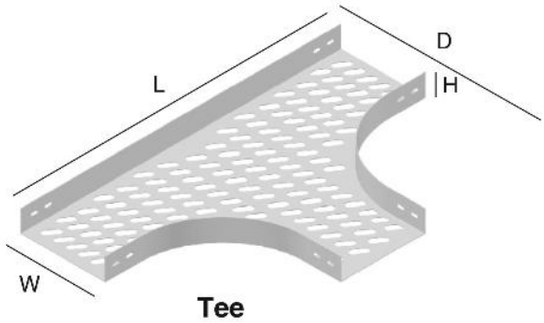
Central Reducer



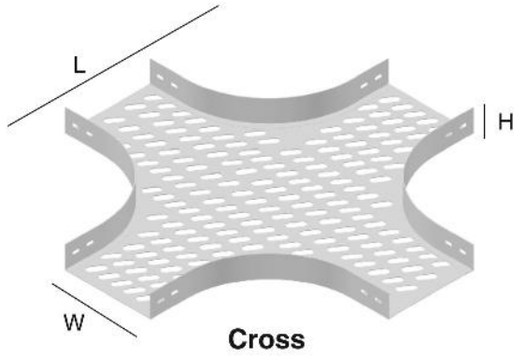
90° Internal Riser



90° External Riser



Tee



Cross

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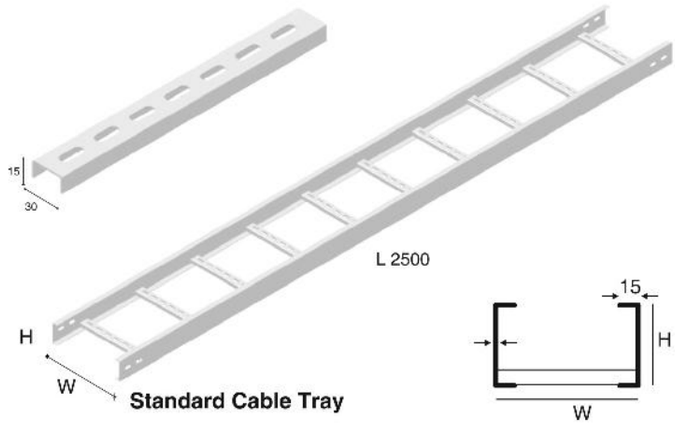
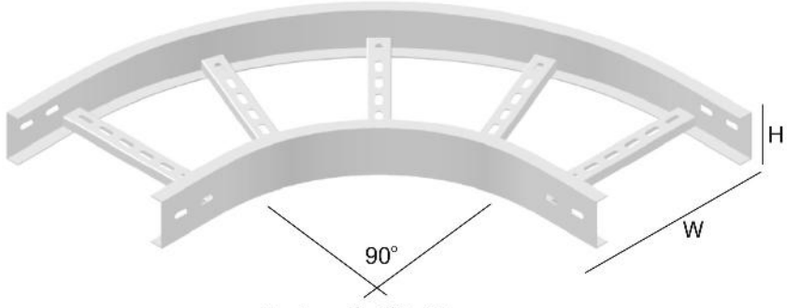
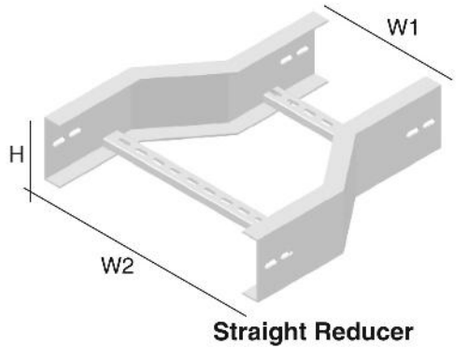
W(mm)	T(mm)	H(mm)
150	2/2.5	50/75
200	2/2.5	50/75
300	2/2.5	50/75
400	2/2.5	50/75
600	2/2.5	50/75/100
750	2/2.5	50/75/100
900	2.5/3	50/75/100



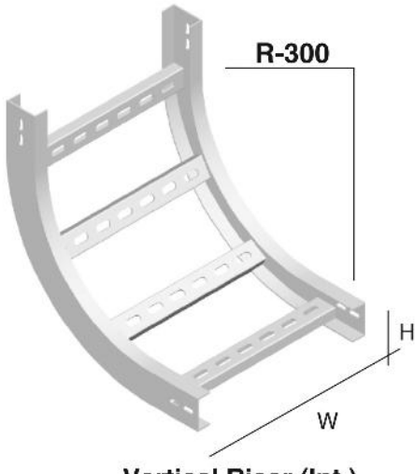
Standard Cable Tray



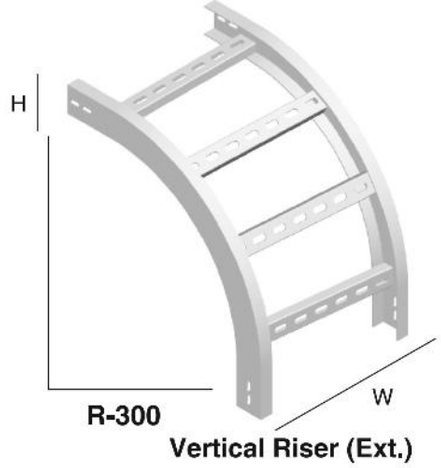
Horizontal 90 Elbow



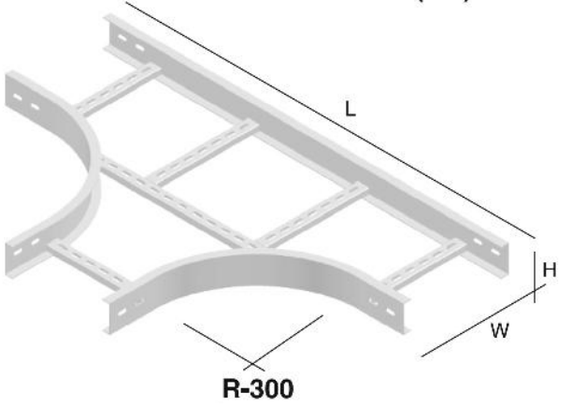
Straight Reducer



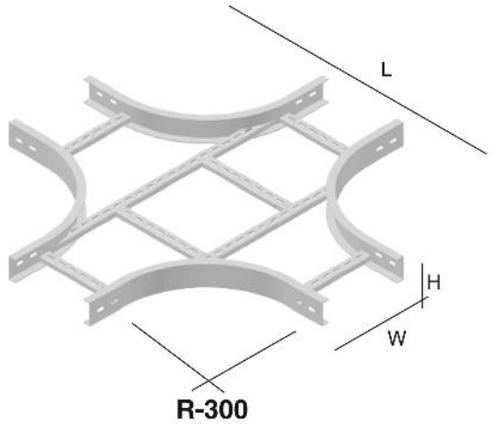
Vertical Riser (Int.)



Vertical Riser (Ext.)



Horizontal Tee



Horizontal Cross

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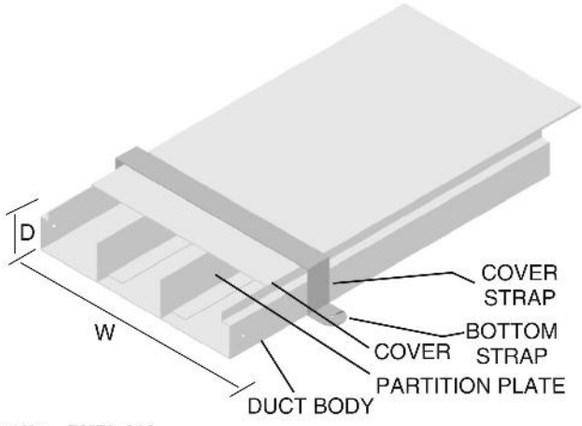
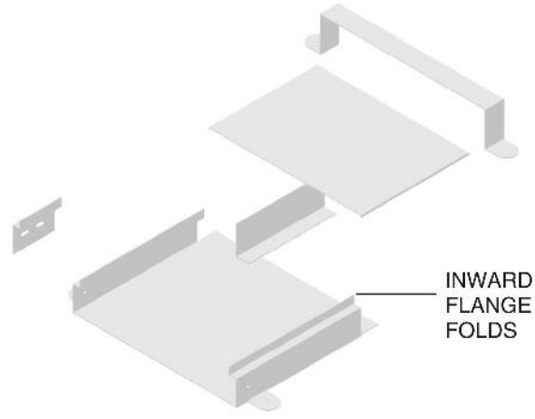
JOGGLED FLOOR WIRE DUCT



Part No. : PMPL 219

EXPLODED VIEW



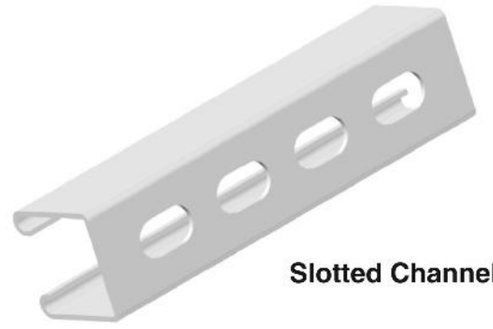
Also Available Inward Flanges Type Ref Separate Drgs.

Std. Depth : 25, 35, 50 mm
Std. Length : Generally 2.5 mtrs.
Other Std. Length As Per Mutual Agreement

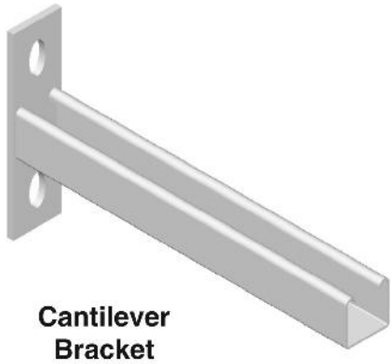
*Clour : Siemens Grey, Black, Deep Orange, White

MATERIALS	FINISH
MILD STEEL - HR IS 1079	*POWDER COATED
MILD STEEL - CR IS 513	*POWDER COATED
PREGALVANISED IS 277	SELF FINISH
ALUMINIUM IS 737	SELF FINISH/*POWDER COATED
STAINLESS STEEL (SS 304)	SELF FINISH

W (mm)	H (mm)	T (mm)
50	25/50/75/100/150	1.6/2
75	25/50/75/100/150	1.6/2
100	25/50/75/100/150	1.6/2
150	25/50/75/100/150	1.6/2
200	25/50/75/100/150	1.6/2
300	25/50/75/100/150	1.6/2
400	25/50/75/100/150	1.6/2
500	25/50/75/100/150	1.6/2
600	25/50/75/100/150	1.6/2



Slotted Channel



Cantilever Bracket

Size (mm)	Thick (mm)
41 x 21	1.2 to 3
41 x 41	1.2 to 3
41 x 61	1.2 to 3

Finish - Hot Dip Galvanized, PRE-GI, Powder Coated, Color Painted, Electro Plated

Spring Nut

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Parmar Metals Pvt. Ltd. is one of the leading manufacturer, exporter and supplier of embossed cable tray. Manufactured using quality approved raw material and progressive technology in the supervision of skilled professionals, they are widely accepted by our clients and highly acclaimed in the market for supporting different types of insulated cables. We fulfil the requirement for various industries such as cement, ceramic, chemical, sugar, steel & power and ship building. Embossed cable trays are made for easy installations, instant approach for repairs and replacement of cables.

• Installation Principle EMBOSSED Cable Trays •

- Perforated Cable Tray
- T branch piece
- Add on TEE
- 90 degree bend Horizontal
- Straight Connector
- Unperforated cable tray
- 45 degree bend horizontal
- Reducer
- Cover
- 90 degree vertical bend, Falling
- 90 degree vertical bend, Rising
- Intersection

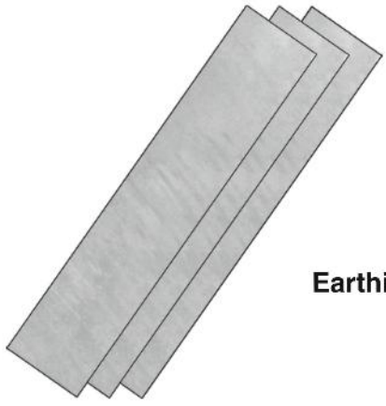
90° Band

Flexy Ladder Tray

Cross Band

Duct Type Cable Tray

Embossed Perforated Tray

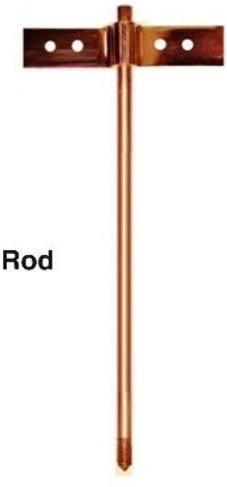


Earthing Strip

Earthing Pipe

Earthing Rod

Copper Bonded Rod



Earthing Plate

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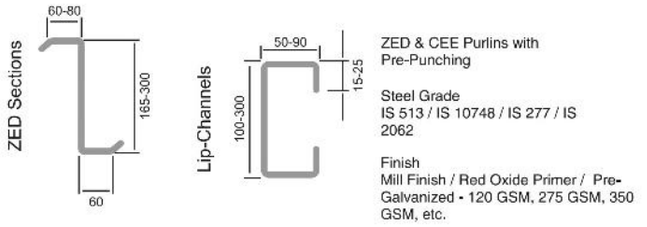
1. SOLAR PV STRUCTURES

We offer wide range of products and services for solar for photo voltaic (PV).
Roll forming of solar structure section thickness ranging from 1.25mm to 6.0mm thick.
Manufacture of section with post forming operations like, punching, slotting 8 notching.
Fabrication of solar mounting structures as per customer's requirement.
Hot dip galvanizing of solar mounting structures as per customer's requirement.



ZED & CEE Purlins with Pre-Punching

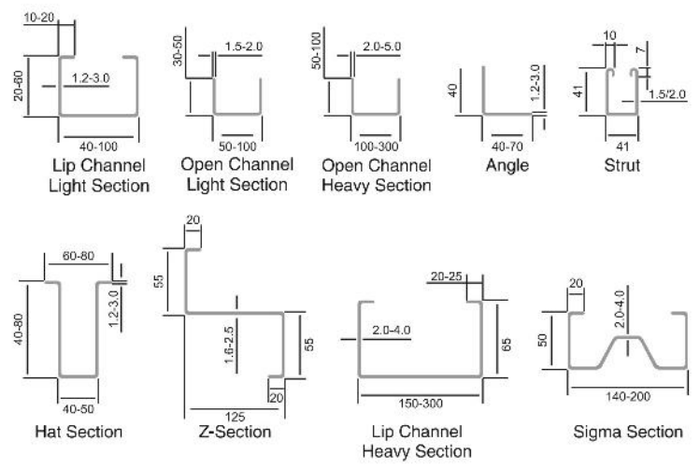
Steel Grade
IS 513 / IS 10748 / IS 277 / IS 2062

Finish
Mill Finish / Red Oxide Primer / Pre-Galvanized - 120 GSM, 275 GSM, 350 GSM, etc.

Thickness
1.50 mm to 3.15 mm for ZED
1.50 mm to 6.00 mm for CEE

Accessories
Sleeves, Cleats and Sag Rods

Zed Purlin size up to 300 mm depth and 82 mm flange can be manufactured on demand



2. RAW MATERIAL

- Hot Rolled Width -70 to 400 mm Thickness - 2 to 6mm Grade - IS 2062, ISI 078, Fe 410, Fe 510 Galvanizing-550 gsm/m2
  Galvalume, POSMac, customization available

3. APPLICATION

- Roof Top Structure
- Ground Mounted Structures

Roof Top Structure

Ground Mount structure

Single Axis Auto Tracking

Seasonal Tilt Solar Structure

Fix Solar Structure

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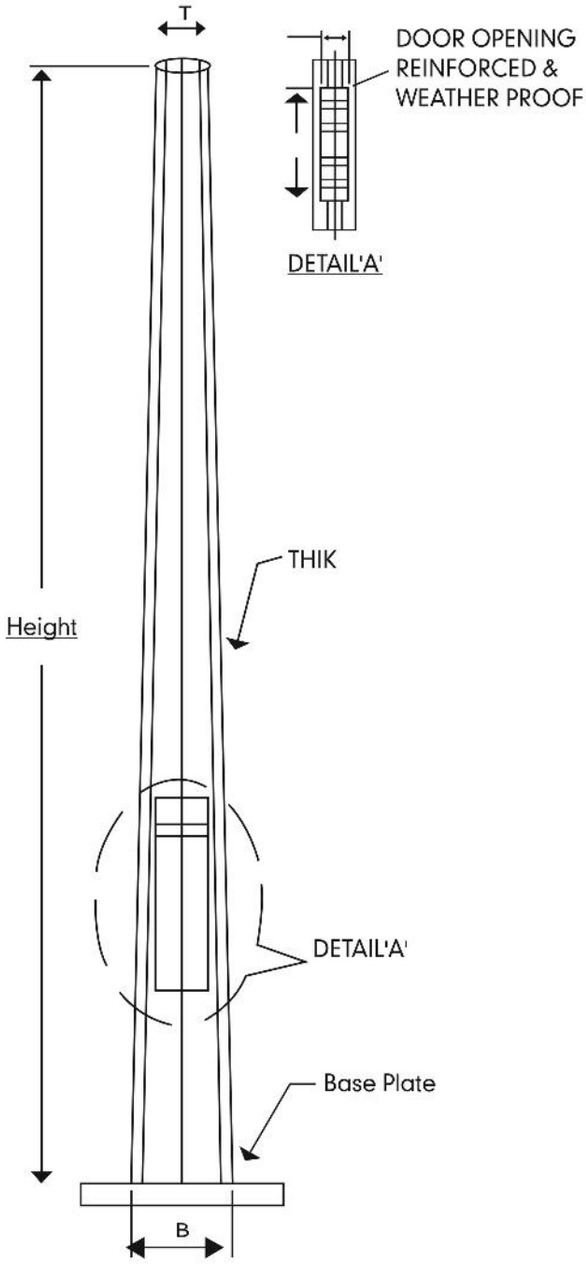
Octagonal Poles

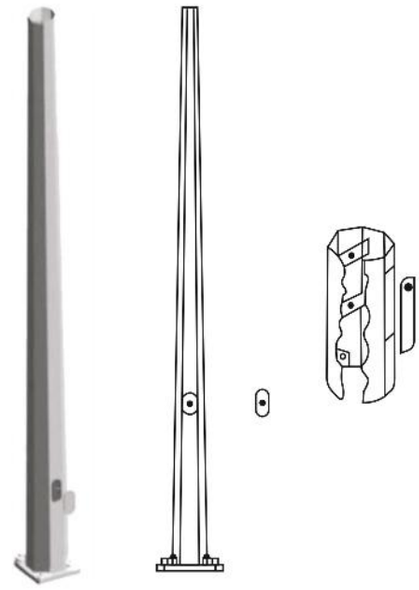
Parmar MetalsPvt.Ltd. Works has introduced hot dip galvanized Octagonal Poles,which can use indifferent sector forpower transmission & distribution,Road&Buildingandvariousotherapplications.Ingeneral,these poles are hotdip galvanized afterfabrication,internallyandexternally in accordance with IS-2629/BSENISO 1461 orequivalent.

Material Specification

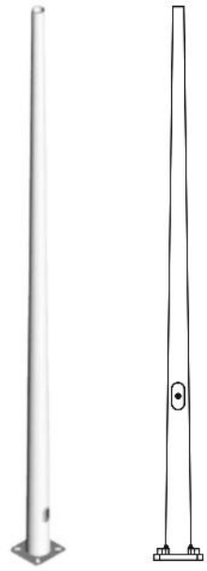
The Steel generally used to manufacture steel poles is as per BSEN 10025.
Yield Strength Min 355N/mm2
Tensile Strength 490-630 N/mm2



DETAILED INFORMATION AS PER TABLE



OCTAGONAL POLES



CONICAL POLES

OCTAGONAL POLES STANDARD SPECIFICATION :

POLE TYPE	HEIGHT (mtr.)	TOP DIA (A/F) mm	BOTTOM DIA (A/F) mm	SHEET THICKNESS	BASE PLATE (L x W x T)	PITCH CIRCLE DIA. mm	Foundation Bolt (No. x Dia x mm)
PM-3030	3	60	130	3	200 x 200 x 12	200	4 x 16 x 450
PM-3031	3	70	130	3	200 x 200 x 12	200	4 x 16 x 450
PM-4030	4	60	130	3	200 x 200 x 12	200	4 x 16 x 450
PM-4031	4	70	130	3	200 x 200 x 12	200	4 x 16 x 450
PM-5030	5	60	130	3	200 x 200 x 12	200	4 x 16 x 450
PM-6030	6	60	130	3	200 x 220 x 12	220	4 x 20 x 600
PM-6031	6	70	135	3	200 x 220 x 12	220	4 x 20 x 600
PM-7030	7	60	130	3	200 x 220 x 12	220	4 x 20 x 600
PM-7030	7	70	135	3	200 x 220 x 12	220	4 x 20 x 600
PM-8030	8	70	135	3	225 x 225 x 16	220	4 x 20 x 600
PM-8031	8	70	155	3	225 x 225 x 16	220	4 x 20 x 700
PM-9030	9	70	155	3	260 x 260 x 16	220	4 x 24 x 750
PM-9031	9	70	175	3	260 x 260 x 16	250	4 x 24 x 750
PM-1030	10	70	155	3	260 x 260 x 16	250	4 x 24 x 750
PM-1031	10	70	175	3	275 x 275 x 16	270	4 x 24 x 750
PM-1130	11	90	210	3	300 x 300 x 20	300	4 x 24 x 750
PM-1230	12	90	240	3	320 x 320 x 20	310	4 x 24 x 850

CONICAL POLES STANDARD SPECIFICATION :

POLE TYPE	HEIGHT (mtr.)	TOP DIA (A/F) mm	BOTTOM DIA (A/F) mm	SHEET THICKNESS	BASE PLATE (L x W x T)	PITCH CIRCLE DIA. mm	Foundation Bolt (No. x Dia x mm)
PM - 3030	3	65	98	3	200 x 200 x 12	200	4 x 16 x 450
PM - 4030	4	65	108	3	200 x 200 x 12	200	4 x 16 x 450
PM - 5030	5	65	119	3	200 x 200 x 12	200	4 x 16 x 450
PM - 6030	6	65	130	3	200 x 220 x 12	220	4 x 20 x 450
PM - 7030	7	65	130	3	200 x 220 x 12	220	4 x 20 x 450

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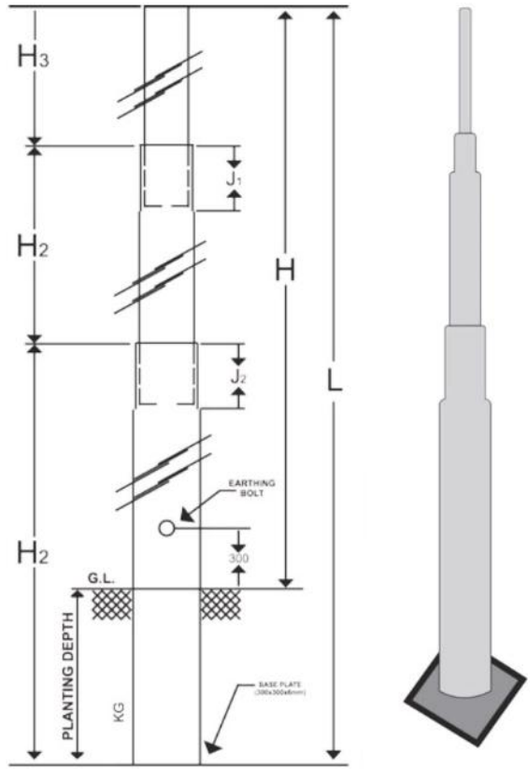
Tubular Swaged pole

Swaged poles are manufactured from e.R.W./welded tubes of suitable length swaged & joined together, no circumerential joint shall be permitted I the individual tube of poles. The longitudinal welds shall be stagered at each swaged joint. Swaging is done by hydraulic power pack unit. A circumferential weld shall be deposit at the upper end of the joint at a slope of approximately 45 poles are manufactured by us normally conform to as per is 2713(p-ill) -1980 and special sizes poles can also be manufactured by as per customer drawing or requirements.



Earthing Arrangement :

If earthing arrangement is required, a bolt of 10mm dia is welded on each pole at a height of 300 mm above the planting depth or can be provided as per customer's requirement.

Note :-

Bracket are available for standard swage poles in various designs shows in brochure and also as per customer requirement.

AS PER IS : 2713 (PART-II) 1980 :

DESIGNATION	OVER ALL LENGTH	PALNTING DEPTH	LOAD APPLIED FROM TOP DISTANCE	HEIGHT ABOVE GROUND H	LENGTH OF SECTIONS			OUTSIDE DIAMETER & THICKNESS OF SECTIONS			APPROX WEIGHT OF POLE
					BOTTOM H_3	MIDDLE H_2	TOP H_1	BOTTOM	MIDDLE	TOP	
(1)	(2) (mtr.)	(3) (mtr.)	(4) (mtr.)	(5) (mtr.)	(6) (mtr.)	(7) (mtr.)	(8) (mtr.)	(9) (mm)	(10) (mm)	(11) (mm)	(12) (kg)
410PM-1	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3x3.65	88.9x3.25	76.1x3.25	62
410PM-2	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3x4.50	88.9x4.05	76.1x3.25	73
410PM-3	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3x5.40	88.9x4.85	76.1x3.25	85
410PM-4	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3x3.65	88.9x3.25	76.1x3.25	67
410PM-5	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3x4.50	88.9x4.05	76.1x3.25	79
410PM-6	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3x5.40	88.9x4.85	76.1x3.25	93
410PM-7	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7x4.50	114.3x3.65	88.9x3.25	97
410PM-8	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7x4.85	114.3x3.65	88.9x3.25	103
410PM-9	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7x5.40	114.3x3.65	88.9x3.25	110
410PM-10	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3x3.65	88.9x3.25	76.1x3.25	70
410PM-11	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3x4.50	88.9x4.05	76.1x3.25	83
410PM-12	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3x5.40	88.9x4.85	76.1x3.25	97
410PM-13	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7x4.50	114.3x4.65	88.9x3.25	101
410PM-14	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7x4.85	114.3x4.50	88.9x3.25	111
410PM-15	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7x5.50	114.3x4.50	88.9x3.25	119

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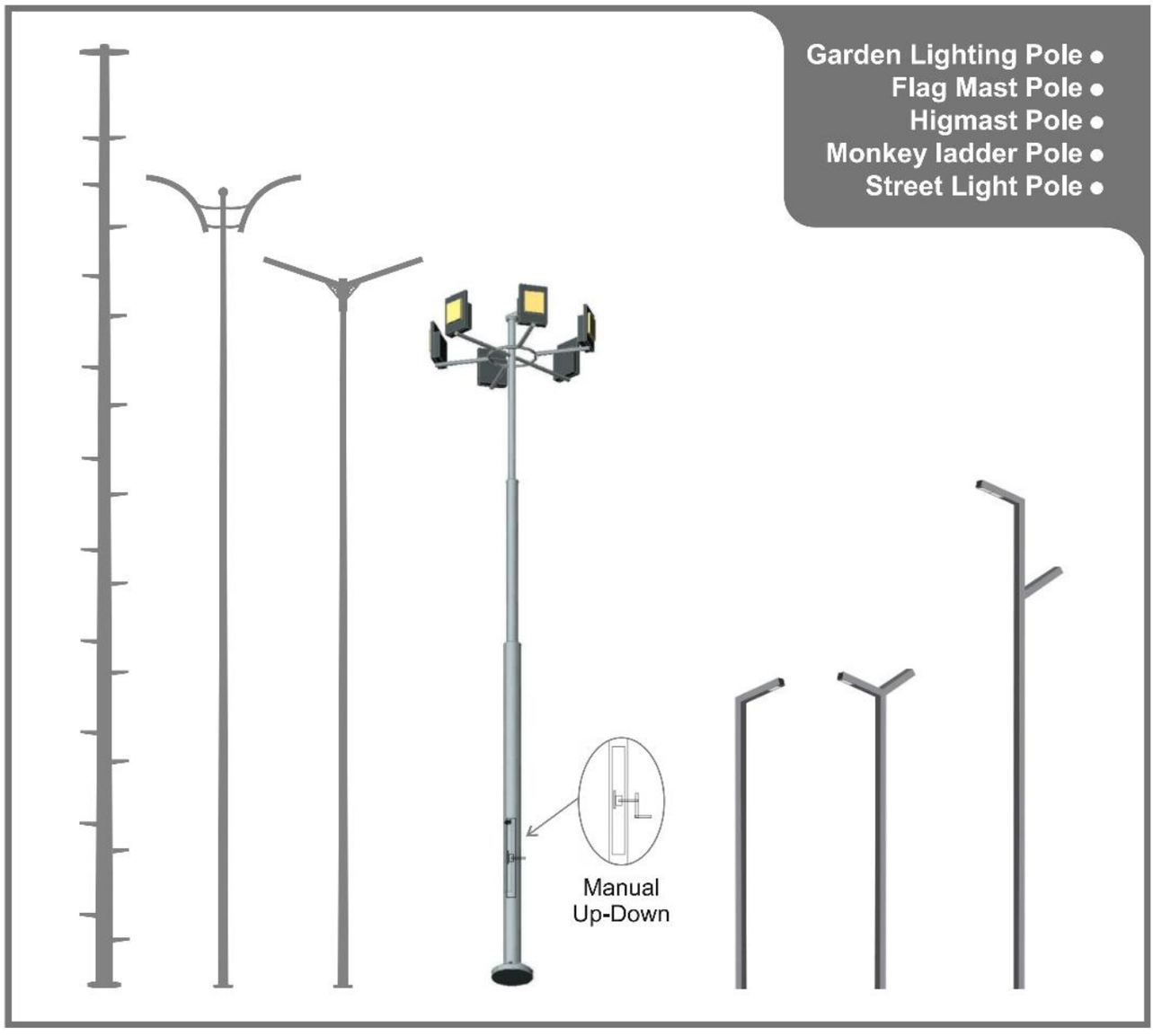
As Per IS: 2713 (PART-II) 1980 :

DESIGNATION	OVER ALL LENGTH	PALNTING DEPTH	LOAD APPLIED FROM TOP DISTANCE	HEIGHT ABOVE GROUND H	LENGTH OF SECTIONS			OUTSIDE DIAMETER & THICKNESS OF SECTIONS			APPROX WEIGHT OF POLE
					BOTTOM H_3	MIDDLE H_2	TOP H_1	BOTTOM	MIDDLE	TOP	
(1)	(2) (mtr.)	(3) (mtr.)	(4) (mtr.)	(5) (mtr.)	(6) (mtr.)	(7) (mtr.)	(8) (mtr.)	(9) (mm)	(10) (mm)	(11) (mm)	(12) (kg)
410PM - 16	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3x3.65	88.9x3.25	76.1x3.25	75
410PM - 17	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3x4.50	88.9x4.25	76.1x3.25	89
410PM - 18	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3x5.40	88.9x4.25	76.1x3.25	104
410PM - 19	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7x4.50	114.3x3.65	88.9x3.25	109
410PM - 20	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7x4.85	114.3x3.65	88.9x3.25	115
410PM - 21	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7x5.40	114.3x4.50	88.9x3.25	129
410PM - 22	8.50	1.50	0.30	7.00	5.00	1.75	1.75	165.1x4.50	139.7x4.50	114.3x3.65	141
410PM - 23	8.50	1.50	0.30	7.00	5.00	1.75	1.75	165.1x4.85	139.7x4.50	114.3x3.65	148
410PM - 24	8.50	1.50	0.30	7.00	5.00	1.75	1.75	165.1x5.40	139.7x4.50	114.3x3.65	158
410PM - 25	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3x3.65	88.9x3.25	76.1x3.25	78
410PM - 26	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3x4.50	88.9x4.05	76.1x3.25	92
410PM - 27	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3x5.40	88.9x4.85	76.1x3.25	108
410PM - 28	9.00	1.50	0.30	7.50	5.00	2.00	2.00	139.7x4.50	114.3x3.65	88.9x3.25	113
410PM - 29	9.00	1.50	0.30	7.50	5.00	2.00	2.00	139.7x4.85	114.3x4.65	88.9x3.25	125
410PM - 30	9.00	1.50	0.30	7.50	5.00	2.00	2.00	139.7x5.40	114.3x4.65	88.9x3.25	133
410PM - 31	9.00	1.50	0.30	7.50	5.00	2.00	2.00	165.1x4.50	139.7x4.50	114.3x3.65	147
410PM - 32	9.00	1.50	0.30	7.50	5.00	2.00	2.00	165.1x4.85	139.7x4.50	114.3x3.65	154
410PM - 33	9.00	1.50	0.30	7.50	5.00	2.00	2.00	165.1x5.40	139.7x4.50	114.3x3.65	164
410PM - 34	9.50	1.80	0.60	7.70	5.00	2.25	2.25	139.7x4.50	114.3x4.50	88.9x3.25	122
410PM - 35	9.50	1.80	0.60	7.70	5.00	2.25	2.25	139.7x4.85	114.3x4.50	88.9x3.25	129
410PM - 36	9.50	1.80	0.60	7.70	5.00	2.25	2.25	139.7x5.40	114.3x4.50	88.9x3.25	137
410PM - 37	9.50	1.80	0.60	7.70	5.00	2.25	2.25	165.1x4.50	139.7x4.50	114.3x3.65	153
410PM - 38	9.50	1.80	0.60	7.70	5.00	2.25	2.25	165.1x4.85	139.7x4.50	114.3x3.65	160
410PM - 39	9.50	1.80	0.60	7.70	5.00	2.25	2.25	165.1x5.40	139.7x4.50	114.3x3.65	170
410PM - 40	10.00	1.80	0.60	8.20	5.20	2.40	2.40	139.7x4.50	114.3x4.50	88.9x3.25	128
410PM - 41	10.00	1.80	0.60	8.20	5.20	2.40	2.40	139.7x4.85	114.3x4.50	88.9x3.25	135
410PM - 42	10.00	1.80	0.60	8.20	5.20	2.40	2.40	139.7x5.40	114.3x4.50	88.9x3.25	144
410PM - 43	10.00	1.80	0.60	8.20	5.20	2.40	2.40	165.1x4.50	139.7x4.50	114.3x3.65	160
410PM - 44	10.00	1.80	0.60	8.20	5.20	2.40	2.40	165.1x4.85	139.7x4.50	114.3x3.65	168
410PM - 45	10.00	1.80	0.60	8.20	5.20	2.40	2.40	165.1x5.40	139.7x4.50	114.3x3.65	178
410PM - 46	10.00	1.80	0.60	8.20	5.20	2.40	2.40	193.7x4.85	165.1x4.50	139.7x4.50	208
410PM - 47	10.00	1.80	0.60	8.20	5.20	2.40	2.40	193.7x5.40	165.1x4.50	139.7x4.50	221
410PM - 48	10.00	1.80	0.60	8.20	5.20	2.40	2.40	193.7x5.90	165.1x4.50	139.7x4.50	233
410PM - 49	11.00	1.80	0.60	9.20	5.60	2.70	2.70	139.7x4.50	114.3x4.50	88.9x3.25	140
410PM - 50	11.00	1.80	0.60	9.20	5.60	2.70	2.70	139.7x4.85	114.3x4.50	88.9x3.25	140
410PM - 51	11.00	1.80	0.60	9.20	5.60	2.70	2.70	139.7x5.40	114.3x5.50	88.9x3.25	164
410PM - 52	11.00	1.80	0.60	9.20	5.60	2.70	2.70	165.1x4.50	139.7x4.50	114.3x3.65	175
410PM - 53	11.00	1.80	0.60	9.20	5.60	2.70	2.70	165.1x4.85	139.7x4.50	114.3x3.65	183
410PM - 54	11.00	1.80	0.60	9.20	5.60	2.70	2.70	165.1x5.40	139.7x4.50	114.3x3.65	194
410PM - 55	11.00	1.80	0.60	9.20	5.60	2.70	2.70	193.7x4.85	165.1x4.50	139.7x4.50	227
410PM - 56	11.00	1.80	0.60	9.20	5.60	2.70	2.70	193.7x5.40	165.1x4.50	139.7x4.50	241
410PM - 57	11.00	1.80	0.60	9.20	5.60	2.70	2.70	193.7x5.90	165.1x4.50	139.7x4.50	256
410PM - 58	12.00	2.00	0.60	10.00	5.80	3.10	3.10	165.1x4.50	139.7x4.50	114.3x3.65	186
410PM - 59	12.00	2.00	0.60	10.00	5.80	3.10	3.10	165.1x4.85	139.7x4.50	114.3x3.65	197
410PM - 60	12.00	2.00	0.60	10.00	5.80	3.10	3.10	165.1x5.40	139.7x4.50	114.3x3.65	208
410PM - 61	12.00	2.00	0.60	10.00	5.80	3.10	3.10	193.7x5.40	165.1x4.50	139.7x4.50	245
410PM - 62	12.00	2.00	0.60	10.00	5.80	3.10	3.10	193.7x4.85	165.1x4.50	139.7x4.50	259
410PM - 63	12.00	2.00	0.60	10.00	5.80	3.10	3.10	193.7x5.90	165.1x4.85	139.7x4.50	277
410PM - 64	12.00	2.00	0.60	10.00	5.80	3.10	3.10	219.1x4.85	193.7x4.85	165.1x4.50	292
410PM - 65	12.00	2.00	0.60	10.00	5.80	3.10	3.10	219.1x5.60	193.7x4.85	165.1x4.50	313
410PM - 66	12.00	2.00	0.60	10.00	5.80	3.10	3.10	219.1x5.90	193.7x4.85	165.1x4.50	322
410PM - 67	13.00	2.00	0.60	11.00	5.80	3.60	3.60	193.7x4.85	165.1x4.50	139.7x4.50	261
410PM - 68	13.00	2.00	0.60	11.00	5.80	3.60	3.60	193.7x5.40	165.1x4.85	139.7x4.50	281
410PM - 69	13.00	2.00	0.60	11.00	5.80	3.60	3.60	193.7x5.90	165.1x5.40	139.7x4.50	302
410PM - 70	13.00	2.00	0.60	11.00	5.80	3.60	3.60	219.1x4.85	193.7x4.85	165.1x4.50	312
410PM - 71	13.00	2.00	0.60	11.00	5.80	3.60	3.60	219.1x5.60	193.7x4.85	165.1x4.50	333
410PM - 72	13.00	2.00	0.60	11.00	5.80	3.60	3.60	219.1x5.90	193.7x4.85	165.1x4.50	343
410PM - 73	14.50	2.00	0.60	12.50	6.50	4.00	4.00	193.7x5.40	165.1x4.85	139.7x4.50	312
410PM - 74	14.50	2.00	0.60	12.50	6.50	4.00	4.00	193.7x5.90	165.1x5.40	139.7x4.50	336
410PM - 75	14.50	2.00	0.60	12.50	6.50	4.00	4.00	219.1x5.60	193.7x4.85	165.1x4.50	370
410PM - 76	14.50	2.00	0.60	12.50	6.50	4.00	4.00	219.1x5.90	193.7x4.85	165.1x4.50	380
410PM - 77	16.00	2.30	0.60	13.70	7.00	4.50	4.50	193.7x5.40	165.1x4.85	139.7x4.50	341
410PM - 78	16.00	2.30	0.60	13.70	7.00	4.50	4.50	193.7x5.90	165.1x4.40	139.7x4.50	367
410PM - 79	16.00	2.30	0.60	13.70	7.00	4.50	4.50	219.1x5.60	193.7x4.85	165.1x4.50	405
410PM - 80	16.00	2.30	0.60	13.70	7.00	4.50	4.50	219.1x5.90	193.7x4.85	165.1x4.50	416

Parmar
METALS PVT. LTD.



We, Parmar Metals Pvt. Ltd. are one of the leading manufacturing companies in lightning and designer pole manufacturing industry of India. We manufacture Octagonal Poles , Swage Tubular Poles, High Mast , Sign Mast , Flag Mast , Mono Pole ,Designer Poles , etc.

We "Optolumens Light Solution" are a Sole Proprietorship based firm, engaged as the foremost Manufacturer of Decorative Poles, Octagonal pole, Swage Pole, Post top Lamp, Bollard Light, Gate Light, LED Panel Light, LED Downlight, etc. Our products are high in demand due to their premium quality and affordable prices. Furthermore, we ensure to timely deliver these products to our clients, through this we have gained a huge clients base in the market.

Product Specification

Material	Hot Dip + Gi + MS + Powder Coated
Brand	PMPL
Usage/Application	Garden, Park, Building, Landscaping
Height	3 to 30 mtr
Country of Origin	Made in India

TYPE OF GRATING :

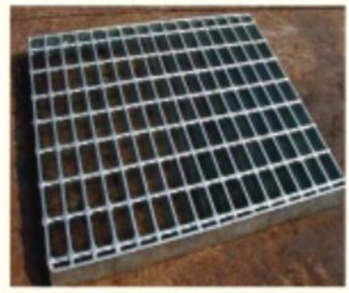
1. PLANE GRATING
2. SERRSTED GRATING

Grating Applications

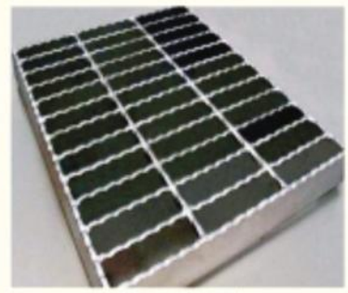
1. Industrial floorings - Maintenance Walkways
2. Drain covers - Drainage
3. Compound Walls
4. Light traffic access ramps and disable access ramps
5. Vertical cladding in architectural application
6. Stairways and Catwalks
7. Marine industries
8. Tower packing support
9. Power plant
10. Stair treads

Advantages of Grating

1.Corrosion resistant
2. Fire retardant
3. High impact Strength
4. Easy to install
5. Light Weight
6. Safe
7. In serration notches made on tip of the load bearing bar improve skid resistance



PLANE GRATING



SERRATED GRATING

Required spacification while ordering grating

1.Material
2. Size of Bearing Br
3. Type of Grating
4. Span
5. Dimension
6. Type of Noising At Stairs
7. State whether grating is to be fixed welded or type of fastening device required
8. Finish (red oxide, painted, galvanized)
9. Dispatch instruction

NOMENCLATURE OF GRATINGS + PRODUCT SPECIFICATIONS

BEARING BAR OR LOAD BEARING BAR (BB) :

These bars support the load put on the grating and they are made from low carbon steel grade Is2062.

MESH :

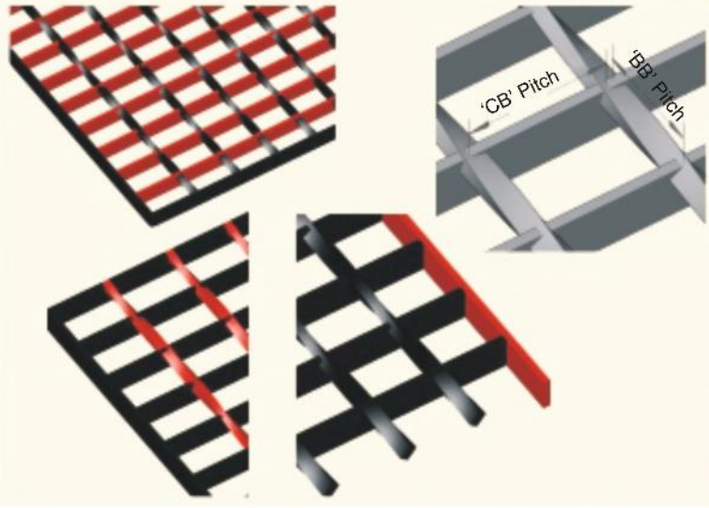
It is the center distance between two adjacent bearing bars and cross bars.

CROSS BAR (CB) :

They are postioned transversely across bearing bars and are welded into them at their interaction point to provide lateral restraint. In steel Gratings, these are made of square twisted wire road from low carbon grade steel of SAE1008.

EDGE BINDING OR FRAME BAR (FB)

Bar fixed to the edge of the gratings and flush with the top of bearing bar.



SPAN (S) :

Total length between the supports, i.e. the extreme ends of the bearing bars. It is measured parallel to the bearing bar. (Length of the load bearing bar)

WIDTH (W) :

It is the overall width of the panel measuring 90°to the load bearing bar.

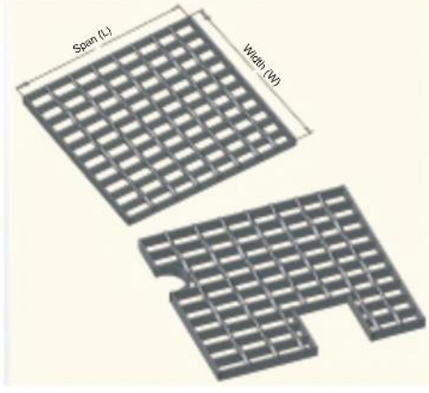
CUT OUTS :

The area of the gratings removed to allow structure, pipe, plant, obstruction or handrail to be fitted in.

PRODUCT SPECIFICATIONS (ALL UNITS IN MM)

Bearing bar Size (Plain or Serrated) : 25 x 3, 25 x 5, 30 x 3, 30 x 5, 32 x 5, 40 x 5, 50 x 5, 60 x 5, and 70 x 5

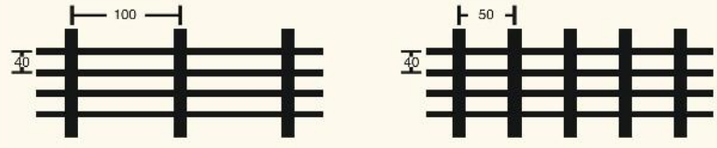
Cross Bar Sizes	: 6 & 8 Square Twisted
Mesh Sizes	: Bearing Bar Pitches 30/33/35/40/41
Panel Sizes	: 5000, 5700, 6000, 6100



RECTANGULAR PATTERN

Most commonly used grating having bearing bar spaced at C\C 40mm and cross bar spaced at C\C 100mm

Having bearing bar spaced at C\C 40mm and cross bar spaced C\C 50mm



Metric Load table for Electroforge Grating

41mm center to center. Types EFB100 & EFB50

Bearing Bar Size (in mm)		Span 300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400
25 x 3	U	11000	4880	2740	1760	1230	900	680								
	D	0.6	1.4	2.6	3.9	5.9	7.9	10.0								
	C	1660	1100	820	660	550	470	410								
	D	0.5	1.1	2.0	3.1	4.3	6.1	8.0								
25 x 5	U	18300	8100	4560	2920	2020	1490	1150	850							
	D	0.6	1.4	2.5	3.9	5.6	7.5	10.0	12.7							
	C	2740	1820	1370	1100	910	780	690	570							
	D	0.5	1.1	2.0	3.1	4.3	6.1	8.0	10.5							
30 x 3	U	15800	7100	3950	2520	1750	1290	990	780	680	600					
	D	0.5	1.1	2.1	3.2	4.3	5.4	6.5	7.2	8.3	12.9					
	C	2370	1580	1180	950	790	670	590	520	410	400					
	D	0.4	0.9	1.6	2.6	3.7	5.0	6.6	8.3	9.4	10.3					
30 x 5	U	22800	11700	6580	4210	2920	2150	1610	1300	1050	860					
	D	0.5	1.1	2.1	3.2	4.3	5.4	6.5	7.2	10.8	12.9					
	C	3950	2630	1970	1580	1310	1130	980	870	780	710					
	D	0.4	0.9	1.6	2.6	3.7	5.0	6.6	8.3	9.4	13.5					
35 x 3	U	21500	9570	5320	3440	2390	1760	1340	1060	860	710					
	D	0.4	1.0	1.8	2.8	3.9	5.2	7.1	9.0	11.1	13.5					
	C	3220	2150	1610	1290	1070	920	800	710	640	580					
	D	0.3	0.8	1.4	2.3	3.2	4.3	5.7	7.2	8.6	10.8					
35 x 5	U	35800	1590	8900	5700	3980	2920	2240	1770	1430	1180	990	840			
	D	0.4	1.0	1.8	2.8	3.9	5.2	7.1	9.0	11.1	13.5	16.6	19.6			
	C	5380	3580	2680	2150	1790	1530	1340	1190	1070	980	890	820			
	D	0.3	0.8	1.4	2.3	3.2	4.3	5.7	7.2	8.6	10.8	13.1	15.7			
40 x 3	U	28100	12500	7100	4490	3100	2280	1740	1380	1120	920	770	660			
	D	0.3	0.8	1.5	2.4	3.5	4.8	6.2	7.9	9.7	11.8	13.8	16.4			
	C	4200	2800	2110	1690	1400	1200	1050	930	840	760	700	640			
	D	0.3	0.7	1.2	2.1	2.8	3.9	4.9	6.3	7.7	9.4	11.2	13.0			
40 x 5	U	47200	20800	11700	7500	5200	3820	2920	2310	1860	1650	1230	1100	950	830	
	D	0.3	0.8	1.5	2.4	3.5	4.8	6.2	7.9	9.7	11.8	13.8	16.4	19.5	20.6	
	C	7000	4680	3510	2800	2330	2010	1750	1560	1400	1270	1170	1080	1000	930	
	D	0.3	0.7	1.2	2.1	2.8	3.9	4.9	6.3	7.7	9.4	11.2	13.0	15.1	17.3	
50 x 3	U	59200	26300	14800	9500	6500	4830	3700	2920	2360	1950	1640	1400	1210	1050	960
	D	0.3	0.8	1.3	2.2	3.1	4.2	5.6	7.0	8.6	10.5	12.4	14.6	16.9	19.9	22.1
	C	8900	5900	4490	3550	2960	2530	2220	1970	1760	1610	1480	1370	1270	1180	1110
	D	0.2	0.6	1.0	1.7	2.5	3.4	4.4	5.6	6.9	8.3	9.9	11.7	13.5	15.5	17.7
50 x 5	U	73100	32500	18300	11700	8100	5900	4570	3610	2920	2410	2030	1730	1490	1300	1140
	D	0.3	0.7	1.2	2.0	2.8	3.8	5.0	6.3	7.8	9.4	11.2	13.2	15.2	17.5	19.9
	C	10900	7500	5500	4380	3660	3130	2740	2430	2190	1990	1830	1690	1560	1460	1307
	D	0.2	0.6	1.0	1.5	2.2	3.1	4.0	5.0	6.2	7.5	9.0	10.5	12.1	14.0	15.9

Unit Stress - 1650 Kg./Sq. m.
U : Uniformly distributed load in Kg./Sq. m.
C : Concentrated load in Kg./m. width at mid-span
D : Detection in millimeters

Span to left of heavy line produce a detection of 6mm or less under a uniform load of 500 kg./Sq. m. This detection is recommended as per BS 4592-1970

Imperial Load table for Electroforge Grating

30mm center to center. Types EFC100 & EFC50

Bar Size	Ped Span	Sec. Mod. Per Ft. of Width		Clear Span 2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	8'-0"	9'-0"
1" x 1/8"	51"	0.211	U	632	404	281	206	158	125	101	84	70				
			D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670				
			C	632	505	421	361	316	281	253	230	211				
			D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536				
1" x 3/16"	57"	0.316	U	947	606	421	309	237	187	152	125	105				
			D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670				
			C	947	758	632	541	474	421	379	344	316				
			D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536				
1-1/4" x 1/8"	61"	0.329	U	987	632	439	322	247	195	158	130	110	93	81		
			D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
			C	987	789	658	564	493	439	395	359	329	304	282		
			D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/4" x 3/16"	67"	0.493	U	1480	947	658	483	370	292	237	196	164	140	121		
			D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
			C	1480	1184	987	846	740	658	592	538	493	455	423		
			D	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/2" x 1/8"	70"	0.474	U	1421	909	632	464	355	281	227	188	158	135	116	89	70
			D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
			C	1421	1137	947	812	711	632	568	517	474	437	406	355	316
			D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-1/2" x 3/16"	77"	0.711	U	2132	1364	947	696	533	421	341	282	237	202	174	133	105
			D	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
			C	2132	1705	1421	1218	1066	947	853	775	711	656	609	533	474
			D	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-3/4" x 3/16"	87"	0.967	U	2901	1857	1289	947	725	573	464	384	322	275	237	181	143
			D	0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862
			C	2901	2321	1934	1658	1451	1289	1161	1055	967	893	829	725	645
			D	0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545	0.689
2" x 3/16"	96"	1.263	U	3789	2425	1684	1237	947	749	606	501	421	359	309	237	187
			D	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754
			C	3789	3032	2526	2165	1895	1684	1516	1378	1263	1166	1083	947	842
			D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603

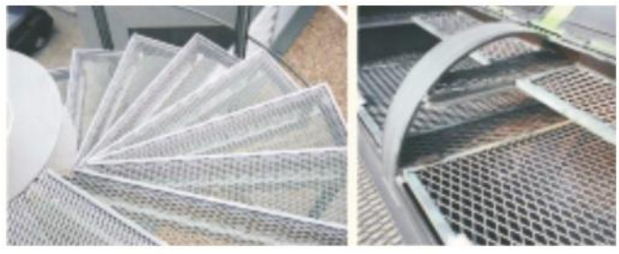
U : safe uniform load, lb/sq. ft.
C : Safe concentrated load, lb/sq. ft. of grating width, at mid-span
D : Detection in inches, Date is theory and based on 18.000psi, Install with cross rods on top

EXPANDED METAL :

TERMINOLOGY

STYLE DESIGNATION

A combination of numbers, letters, and abbreviations permitting proper specifications, of dimension, gauge, style, and weight. In expanded metal products, the first number designates nominal dimension, short way of design. The second number completes the designation and may specify the gauge of metal, weight per 100 square feet, or may have some other significance. Grating products are designated by weight of finished product per square foot.



STANDARD EXPANDED METAL

Standard expanded metal as it comes frome the press. The strands and bonds are set at a uniform angle to the plane on the sheet. This gives added strength and rigidity, as well as skid-resistant surface. Standard expanded metal is abbreviated XM.

FLATTENED METAL

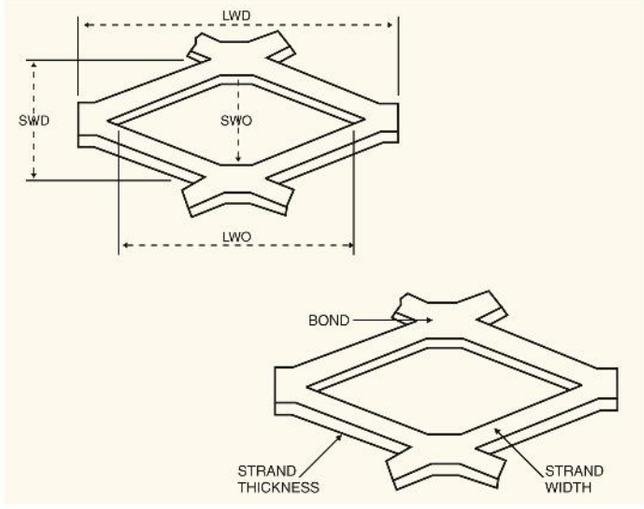
Flattened expanded metal is manufactured by passing the standard expanded sheet throught a cold roll reducing mill. Flattened expanded metal turns the strands and bonds down to provide a flattened surface, reducing the thickness (gauge) and elongating the pattern. Thikness may very plus or minus 10% from published dimensions.

GRATING

Grating is a standard expanded metal pattern produced from heavier gauge low carbon steel plates. Strands and the openings of grating are considerably larger then other meshes. It is ideal for use wherever a strong, durable, lightweight surface is needed. Although used primarily for pedestrian traffic, grating can accommodate heavier loads if Properly supported.

DESIGN SIZE

Actual dimension SWD and LWD. Measured from a point to a corresponding point on the design show.



SWD
Nominal dimension Short Way of Design
SWO
Short Way of Opening
LWD
Nominal dimension Long way of Design
LWO
Long Way of Opening
STRANDS
The sides of the expanded metal design.
STRAND THICKNESS
Gauge thickness of metal expanded.
STRAND WIDTH
Amount of metal fed under dies to produce one strand.
BOND
The solid intersection of two strands.

SIDE SHEARING

The process of cutting a piece of expanded metal parallel to the long dimension of the diamond.

RANDOM SIDE SHEARING

Side shearing is a cut made parallel to the LWD dimension of the sheet which usually leaves open diamonds.

BOND SIDE SHEARING

This cut is made along the length of the sheet on the center line of the bond over the specified width. In most cases it is not practical to attempt to Bond Side Shear either regular or flattened expanded metal because of the camber.

END SHEARING

END RANDOM SHEARING

The process of shearing a piece of expanded metal to a specified length (LWD). This cut normally leaves open diamonds at both ends but accomplishes close tolerance when both ends are sheared.

END BOND SHEARING

The process of shearing a piece of expanded metal to a specified length (LWD). This cut normally leaves open diamonds at both ends but accomplishes close tolerance when both end are sheared.

ORDERING PROCEDURE

When ordering Expanded Metals, give complete style specifications to avoid possible error. Include style, standard or flattened, type o metal, and sheet dimensions. SWD dimensions always given before LWD.

Drawings are exaggerated for illustrative purpose.

Expanded Metals : Specifications

Category	Mesh Reference	Material Type	Mesh SWM (mm)	Opening LWM (mm)	Thickness (mm)	Strand (mm)	Standard Sheet LWM (mm)	Standard Sheet SWM (mm)
Fine Meshes	PMPL 1015	Steel	9	29	1.0	1.5	1220	2440
	PMPL 2015	Steel	9	29	2.0	1.5	1220	2440
	PMPL 1020	Steel	16	38	1.0	2.0	1220	2440
	PMPL 1520	Steel	16	38	1.5	2.0	1220	2440
	PMPL 1528	Steel	22	57	2.0	2.8	1220	2440
	PMPL 2028	Steel	22	57	2.0	2.8	1220	2440
	PMPL 2020	Steel	32	38	2.0	2.0	1220	2440
	PMPL 2030	Steel	35	76	2.0	3.0	1220	2440
Medium Meshes	PMPL 3035	Steel	22	57	3.0	3.5	1220	2440
	PMPL 3045	Steel	35	76	3.0	4.5	1220	2440
	PMPL 3060	Steel	42	115	3.0	6.0	1220	2440
	PMPL 3030	Steel	50	152	3.0	3.0	1220	2440
	PMPL 3050	Steel	50	152	3.0	5.0	1220	2440
	PMPL 5050	Steel	50	152	5.0	5.0	1220	2440
	PMPL 3075	Steel	75	200	3.0	7.5	1220	2440
Ballustrade Meshes	PMPL 3032	Steel	25	40/81	3.0	3.2	1220	2440
	PMPL 3032A	Aluminium	25	40/81	3.0	3.2	1220	2440
	PMPL 3033	Steel	30	50/110	3.0	3.3	1220	2440
Walkway Meshes	PMPL 30080	Steel	30	75	3.0	8.0	1220	2440
	PMPL 45050	Steel	34	76	4.5	5.0	1220	2440
	PMPL 50075	Steel	25	75	5.0	7.5	1220	2440
	PMPL 50080	Steel	42	135	5.0	8.0	1220	2440
	PMPL 50105	Steel	30	75	5.0	10.5	1220	2440
	PMPL 501110	Steel	45	135	5.0	11.0	1220	2440
Louvre Meshes	PMPL 1063	Steel	16	76	1.0	6.3	1220	2440
	PMPL 1563	Steel	16	76	1.5	6.3	1220	2440

* Specification normally refers to steel but can be manufactured in aluminium and stainless steel.
* Sheet tolerance : SWM ±20 mm *LWM ± 10 mm

Notation : LWM = Long Way of Mesh SWM = Short Way of Mesh A = Aluminium F = Flattened

Steel Walkway Meshes : Load/Span Table

Walkway Mesh Reference	Type of Loads	Simple Span (mm)			Double Span (mm)			Triple Span (mm)		
		600	900	1200	300	450	600	200	300	400
PMPL 50075 PMPL 50110A	Uniform Load (KN/m^2)	5.80	2.50	1.50	23.80	10.70	6.10	51.00	25.40	14.60
	Point Load (KN)	1.30	0.85	0.64	2.95	1.97	1.50	4.55	3.18	2.42
PMPL 50105 PMPL 60075A	Uniform Load (KN/m^2)	8.20	3.65	2.02	33.80	15.30	8.66	70.00	36.10	20.50
	Point Load (KN)	1.80	1.22	0.92	4.20	2.80	2.12	6.40	4.56	3.45
PMPL 50080 PMPL 50075A	Uniform Load (KN/m^2)	4.90	2.25	1.22	20.00	9.00	5.21	43.85	21.40	12.14
	Point Load (KN)	1.10	0.74	0.54	2.50	1.68	1.27	4.00	2.68	2.04
PMPL 50110	Uniform Load (KN/m^2)	6.43	2.90	1.73	26.73	11.93	6.83	56.00	28.75	16.12
	Point Load (KN)	1.44	0.96	0.72	3.30	2.22	1.68	5.06	3.56	2.70
PMPL 30080 PMPL 45050	Uniform Load (KN/m^2)	Not Recommended			7.25	2.61	1.82	19.13	8.50	4.78
	Point Load (KN)				1.32	0.53	0.44	1.43	0.96	0.72

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METALS PVT. LTD.

PERFORATED METALS

PERFORATIONS : Can be diamond, round, square, elliptical, countersunk, burred, lipped, specially shaped or slots that have round or square ends. MATERIAL : In additional to Iron and Steel, we prforate Aluminium, Brass, Bronze, Copper, Cloth, Zinc and Tin-plate as well as Paper, Hardboard, Plastic, Rubber, Nickle, Stainless Steel, Monel and Precious Metals.

COLDEN PERFORATED MATERIAL : Colis up to 5 tonne (7 tonne in special cases) in weight having core diameters ranging from 25mm (1"), widths up to 1270mm (50") and metal thickness of 2 mm (.080") can be ordered. Plain margins can be provided along the edge of the coil. Unperforated area can be provided across the width of the coil at required spacings although in some cases it may be necessary for them to be a multiple of the pitch being perforated. We can supply in coil form, or In lengths cut to size from it.

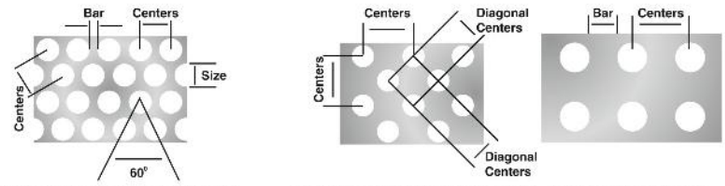
QUOTATIONS : To enable us to quote accurately on your specific requirements, we request that all information should be accordingly supplied as per requirements as stated in the General Ordering Information section be supplied.

MARGINS AND BLACK SECTIONS : Any approximate size may be left where required, the cost varying according to circumstances.

FINISHES : Galvanised, Painted, Anodised, Plastic Coated and various special finishes.

PRODUCT RANGE : Sheet Thickness from 0.15mm upto 10mm, Hole Dia from 0.5mm upto 75mm, Maximum Width Size upto 1300mm.

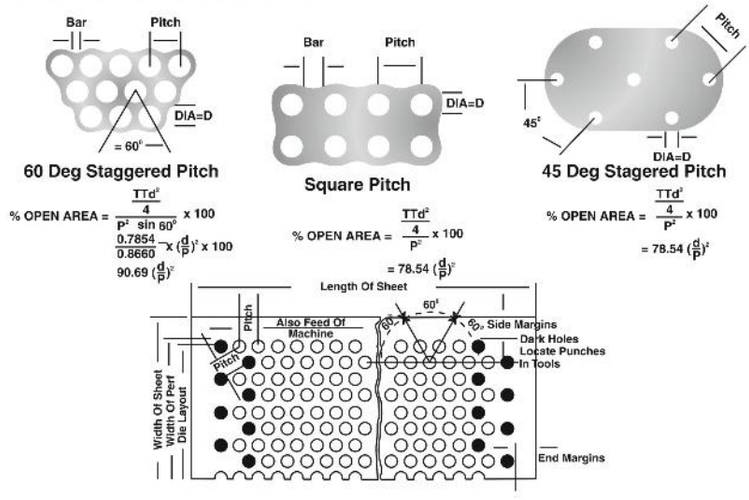
HOLE PATTERNS



60 Deg Staggered Round Hole **45 Deg Staggered Round Hole** **Square Round Hole**

The 60 Deg staggered pattern is the most popular hole arrangement due to its wide range of open area and inherent strength.

OPEN AREA CALCULATION



EXPANDED METAL SHEETS

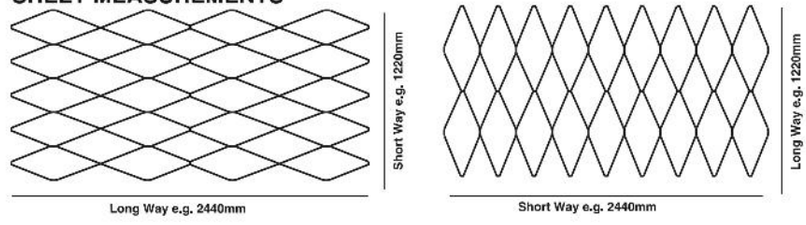
BUYERS GUIDE : When ordering it would be help full if you could give us

Material type, Sheets size or coil width, Qauantity of sheets and length of coil, Raised or flattened mesh, Additional processing or special finishes (galvanised, anodised, power coated, plastic coated)

FLATTENED MESH DIMENSIONS

Flattened mesh : Mesh which has been pressure rolled, resulting in stands which are in the same plane as the sheet.

SHEET MEASUREMENTS



All sheet size are nominal, Normally Oversize. if Exact Sheared Size are Required this must be Stated on the order.

GLOSSARY OF MESH REFERENCE SUFFIXES

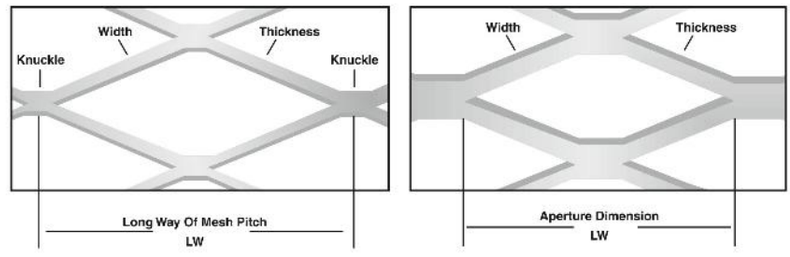
- **A** - Aluminium • **Ti** - Titanum • **S** - Stainless Steel
- **M** - Monel • **C** - Copper • **Ds** - Nickle Alloy
- **B** - Brass • **Pv** - Plastic Mesh
- **Ch** - Corrosion & Heat Resistant
- **Tgc** - Tight Coat Galvanised
- **F** - Flattened **i.e. Af** = Aluminum Flattened etc.

GLOSSARY OF TABLE SUNFFIXES

LWA - Long Way Aperture (Length Of the Diamond For Flattened Mesh Only)
SWA - Short Way Aperture (Height Of the Diamond For Flattened Mesh Only)
LWD - Long Of The Diamond (Measured From The Point to Point Horizontally)
SWD - Short Of The Diamond (Measured From The Point to Point Vertically)
Swdt - Stand With Stk Stand Thickness (Material Thickness)
Kgm2 - Kilograms Per Meter Squared
% Open Area - % Of Sheet Which Is Open

RAISED (CONVENTIONAL) MESH DIMENSIONS

Raised (Conventional) Mesh : Standards are Measured from Knucle to Knucle



PRODUCT RANGE :

Thickness From 0.2mm Upto 5mm, Mesh Size SW Dia From 0.5mm Upto 100mm, Maximum Width Size Upto 2500mm. Apart From the Above Range, Illustrations Are Indicative Of Mesh Size End Pattern.

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METALS PVT. LTD.

Walkway Plank | Platform Embossed Walkway

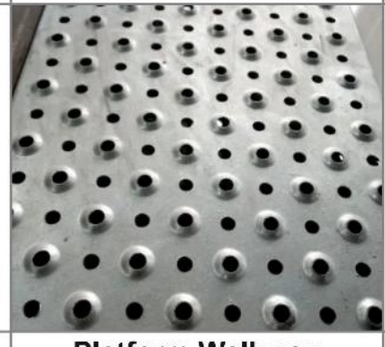
We Are Leading Manufacture Of Perforatedd Type Walk Way. Having a rich industrial experience and knowledge we are engaged in offering a wide range of Circular Perforated Sheet. Our complete range is supremely reliable and has modern features and wide usage. These are made from best quality material that is sourced from the most reliable and authentic vendors of the industry.

We are manufacture of all type of walk way plank in GI Sheet and Mild steel also, and we also customize as per customer. Our walkway planks are the best walkway planks in kolkata as we offer you some of the best products and services in terms of planks. Here are a few features that you can get from our walkway planks – Economic and safe Anti-sleep and corrosion free surface Light weight with heavy - duty load Durable.

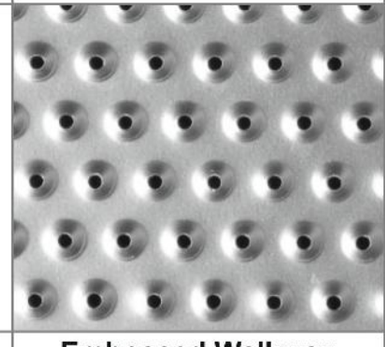
Features and Benefits

- Lightweight
- Virtually Maintenance free
- Non-slip surface
- Simple, quick install
- Environmentally friendly

Expanded Walkway



Platform Walkway



Embossed Walkway

We are among the eminent manufacturers of Heavy Duty Warehouse Rack in the industry. The offered racks enable efficient space handling in industrial environments, enabling the customers to achieve high time and cost efficiency. Their sturdiness enables them to bear heavy loads, making them ideal for storing a wide range of items.

Storage Rack Warehouse

Industrial Storage Rack

Features and Benefits

- Water-resistant
- Uniformly divided
- Light in weight
- Precise dimensions
- Free from sharp edges
- Available in customized sizes
- Highly durable
- Adjustable height

When you stop and think about fasteners, you realise that they are really pretty important little components. Without them, almost everything we use in day to day life would literally fall apart at its seams. We at PE Fasteners think fasteners are the most important components of an assembly. We strive to manufacture fasteners with an emphasis on betterment of overall quality aspects. We are expert in manufacturing of STAINLESS STEEL FASTENERS. The company makes wide range of fasteners and adding sophisticated machines to cover more range. Company is under vertical expansion to meet the global demand and growing with a fast pace.

STAINLESS STEEL BOLTS & NUTS FOR WATER PROJECTS & WATER RESERVOIRS

we manufacture the complete range of stainless steel bolting in **SS 202, SS 316 & SS 304** used in projects related to water treatment sewage water treatment plants, desalination plants, water equipment, for flange joints & pumps. we are producing stainless steel bolts & nuts **SS 202, SS 316 & SS 304** grade nuts and bolts for the ever growing demands for water storage reservoirs and project in middle east. These bolts and nuts are used for joining pipeline using pumps and valves.

HIGH TENSILE BOLTS & NUTS

we manufacture specially fasteners in many grades in stainless steels and alloy steel.
Our expertise over the years has resulted in us providing material in shorter delivery times as per customers drawings or prototypes samples.

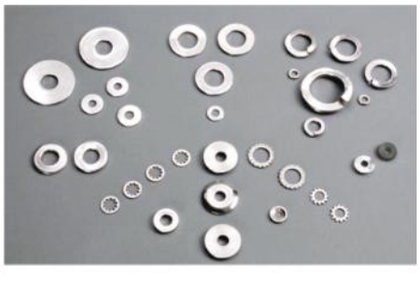
- Hex Bolts & Nuts in DIN 931 and 933
- Stud Bolts & Nuts ASTMA-193 and A-194
- Foundation Bolts
- Anchor Bolts
- Testing and Quality Control

we have a long standing tradition of providing uncompromised quality fasteners, we relentlessly conduct series of quality checks like UTS testing, Profile checks, destructive and all other kinds of non destructive testings.

Materials	Stainless steel, AISI 202, 304 & 316
Threads	METRIC, BSW, BSF, UNC, UNFm as Required
Size Range	M3 to M20, 1/8" TO 3/4"
Length Range	8mm to 150 mm, 3/8" to 6"
Standards	DIN, ISO, IS, BS, ANSI

we are committed to satisfy the needs and expectation of our customers by manufacturing and supplying Alloy Steel & Stainless Steel Fasteners of stated quality, timely delivery and reliable services at all times.

we strive for continuous improvement through productivity and employee participation. We make sure each and every product face rigorous inspection stage during production process before they make it to the box, ready for shipment. The Management shall promote Quality at all levels through execution of the quality management system complying to **ISO 9001:2008** standard. We always aim to give zero defect product to our customers. Every product is certified after final inspection and packaging for its conformance against specified international standards or customer specific requirements. We always believe in continuous improvement in our products keeping in view of customer requirement.



Note :

- Special Stainless Steel Grade available on request
- We can develop product as per customer's specification/drawing
- All austenitic stainless steel fasteners are normally non-magnetic; after cold working, some magnetic properties may be evident please ref: ISO 3506-1 standard.
- Material Test Certificate is provided as per the EN 1024: 3.1B/3.1 standard
- PMPL- hot forged stainless steel and high tensile blots and sockets in grade 8.8, 10.9 and 12.9, **SS 202, SS 316, SS 316 L, 316531, 316533, A2 & A4,** ASTM Grades B8, B8M in class 1 and 2
- we manufacture hot forged bolts and nuts, we offer bolts from M-16 diameter to M-64 diameter in any length upto 1200 mm long. we are specialized manufactures in Stainless steel and alloy steel grades as er international steel norms.

Parmar
METALS PVT. LTD.

Our Valuable Customers

Chemical	Alumi-num	Cathodic Electro Deposition Process	PVC	Type-304 stainless	Type-316 stainless	Zine Coated Steel
Acetic Acid 10%	R	NR	R	R	R	NR
Acetic Acid 2%	R	F	R	R	R	NR
Acetone	R	R	NR	R	R	R
Ammonium Hydroxide-Cone.	R	R	R	R	R	-
Ammonium Hydroxide 10%	F	R	R	R	R	-
Ammonium Hydroxide 2%	R	R	R	R	R	-
Benzene	R	R	NR	R	R	-
Bromine Water	NR	R	R	NR	NR	-
Butanol (Butyl Alcohol)	R	R	R	R	R	R
Carbon Disulfide	R	R	NR	R	R	-
Carbon Tetrachloride	F	R	F	R	R	-
Chlorine Water	R	R	R	NR	F	R
Cutting Oil		-	R	-	-	--
Diethanolamine	R	R	NR	-	-	NR
Ethanol	R	R	R	R	R	R
Ethyl Acetate	R	R	NR	-	-	R
Ethylene Dichloride	F	R	NR	-	-	R
Formaldehyde 20%	R	R	R	R	R	R
Gasoline	R	R	R	R	R	R
Glycerine	R	R	R	R	R	R
Household Detergent 10%	F	R	R	R	R	-
Hydrochloric Acid 40%	NR	NR	R	NR	NR	NR
Hydrochloric Acid 10%	NR	F	-	NR	NR	NR
Hydrochloric Acid 2%	NR	F	-	NR	NR	NR
Hydrogen Peroxide 30%	R	NR	R	R	R	-
Hydrogen Peroxide 3%	R	R	-	R	R	-
Hydrogen Sulfide (Gas)	R	R	R	F	R	-
JP-4 Jet Fuel	R	R	R	R	R	-
Lactic Acid 85%	F	R	R	NR	-	-
Latex	R	R	-	R	R	NR
Linseed Oil Fatty Acid	R	F	R	R	R	-
Methanol	R	R	R	R	R	R
Methyl Ethyl Ketone	R	R	NR	-	-	R
Methyl Isobutyl Ketone	R	R	NR	-	-	R
Mineral Spirits	R	R	-	-	-	-
Motor Oil-10W	R	R	R	R	R	R
Naphtha. VM&P	R	R	R	R	R	R
Nitric Acid 2%	F	NR	R	R	R	-
Perchloroethylene	R	R	-	-	-	NR
Petroleum Ether	-	R	-	R	R	R
Phenol 10%	R	R	NR	R	R	R
Phosphoric Acid 2%	F	NR	R	R	R	NR
Potassium Hydroxide 50%	NR	R	R	R	R	-
Potassium Hydroxide 10%	NR	R	R	R	R	-
Potassium Hydroxide 2%	NR	R	R	R	R	-
Sodium Chloride 25%	F	R	R	R	R	F
Sodium Hydroxide 50%	NR	R	R	R	R	NR
Sodium Hydroxide 10%	NR	R	R	R	R	F
Sodium Hydroxide 2%	NR	R	R	-	-	-
Sodium Hypochlorite-Cl. 10%	F	R	R	-	-	-
Sodium Hypochlorite-Cl. 6%	F	R	R	NR	R	-
Sulfuric Acid 2%	F	NR	R	NR	R	NR
Tall Oil Fatty Acid (Syfate 94)	R	R	R	-	-	-
Tannic Acid 50%	F	R	R	R	R	-
Water-Deionized	R	R	R	R	R	F
Water-Sea	F	F	R	R	R	F
Water-Tap	R	R	R	F	F	R
Xyol	R	R	NR	-	-	-

GALVANIC SERIES IN SEA WATER

Anodic End

More Anodic

- Magnesium
- Magnesium Alloys
- Zinc
- Beryllium
- Aluminum - Zinc Alloys (7000 series)
- Aluminum - Magnesium Alloys (5000 series)
- Aluminum (1000 series)
- Aluminum - Magnesium Alloys (3000 series)
- Aluminum - Magnesium - Silicon Alloys (6000 series)
- Cadmium
- Aluminum - Copper Alloys (2000 series)
- Cast Iron, Wrought Iron, Mild Steel
- Austenitic Nickel Cast Iron
- Type 410 Stainless Steel (active)
- Type 316 Stainless Steel (active)
- Type 304 Stainless Steel (active)
- Naval Brass, Yellow Brass, Red Brass
- Tin
- Copper
- Lead-Tin Solders
- Admiralty Brass, Aluminum Brass
- Manganese Bronze
- Silicon Bronze
- Tin Bronze
- Type 410 Stainless Steel (passive)
- Nickel - Silver
- Copper Nickel Alloys
- Lead
- Nickel - Aluminum Bronze
- Silver Solder
- Nickel 200
- Silver
- Type 316 Stainless Steel (passive)
- Type 304 Stainless Steel (passive)
- Incoloy 825
- Hastelloy B
- Titanium
- Hastelloy C
- Platinum
- Graphite

Cathodic End

R = Recommended
F = May be used under some conditions
NR = Not Recommended
- Information not available

Parmar
METALS PVT. LTD.

Remark

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METALS PVT. LTD.

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