



DASHLANE CORPORATION
PRIVATE LIMITED

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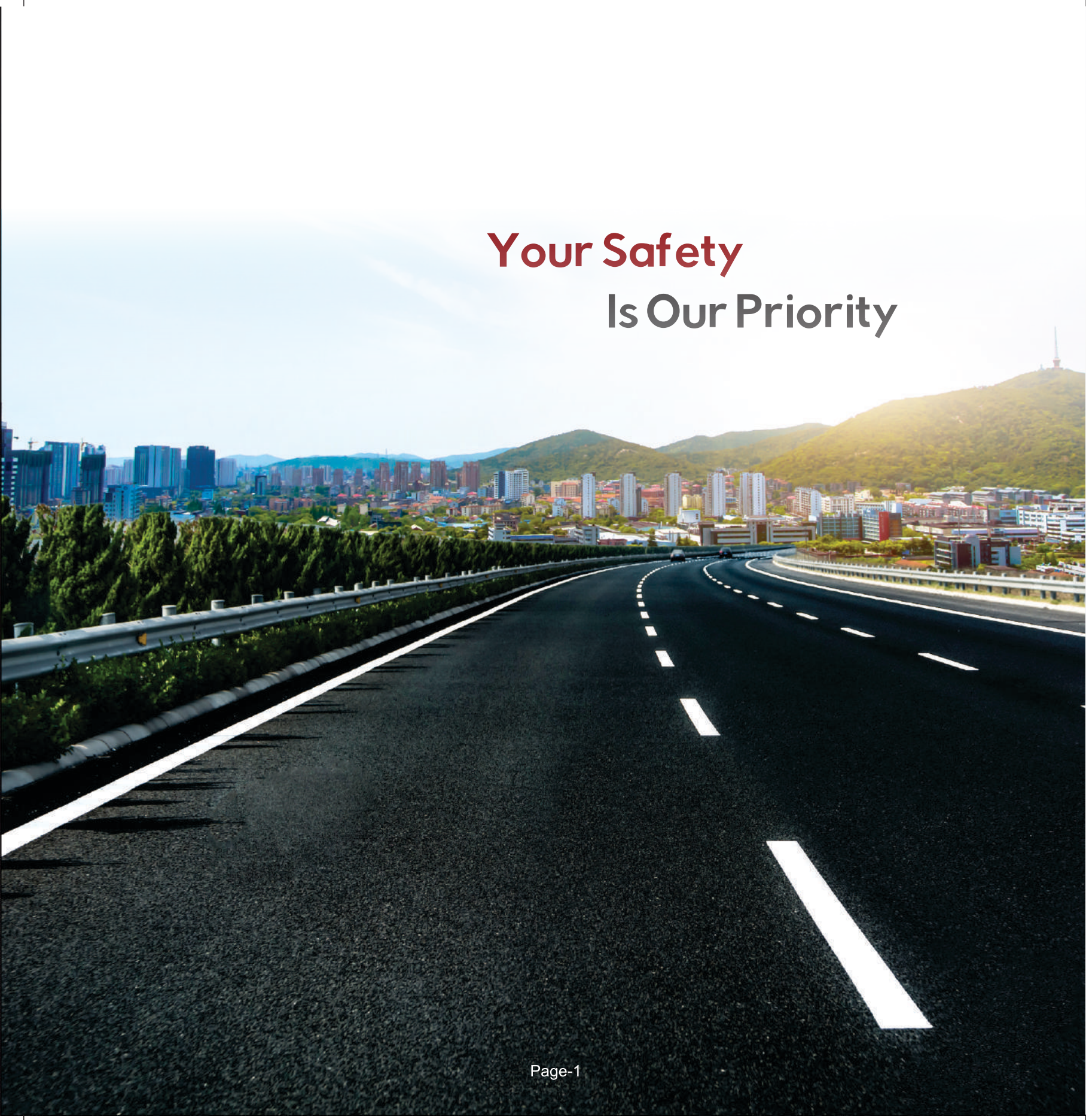
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DASHLANE CORPORATION
PRIVATE LIMITED



your safety is our priority



Your Safety
Is Our Priority



Safe Journey ...

PRESTIGIOUS CLIENTS

LIST OF CUSTOMERS WHEREIN
WE ARE REGISTERED AS APPROVED SUPPLIERS



.....and many more

EXPANDING GLOBALLY



Dashlane Corporation Private Limited is a leading manufacturer of Metal Beam Crash Barrier and Pipes & Tubes in the country catering to the global demands and needs of customers. The Company is now operating with four verticals namely:

- **METAL BEAM CRASH BARRIER**
- **STEEL TUBES & HOLLOW SECTIONS – BLACK & GALVANIZED**
- **STREET LIGHTING POLES**
- **PEDESTRIAN GUARD RAILS**

Dashlane Corporation is a registered supplier with all major government and public sector entities in India. The company has two manufacturing facilities in Bhilai and Mumbai. It's proximity to the port has helped the company to export and establish a global presence.

ENSURING TO REACH YOUR DESTINATION SAFELY



Dashlane Corporation is motivated by the goal of becoming an industrial leader in terms of quality and delivery. We undertake design, manufacturing and supply of wide range of Metal Beam Crash Barrier under stringent quality control. It is based on the guidelines issued by Ministry Of Road Transport and Highways (MORTH) and other international specifications like AASHTO 180. Dashlane Corporation offers every possible range of "W" Beam and "THRIE" Beam type Steel Crash Barrier system with necessary anchorage facilities. The purpose of Metal Beam Crash Barrier is to absorb the impact of, out of control vehicles to rebound into the path following or ongoing traffic and slowly guide the vehicle into normal flow. Metal Crash Barriers are widely being used as security mechanism for Flyover Projects, Bridges, National Highways and several more.

WHY DCPL CRASH BARRIER?

- Strongly constructed from high quality raw materials
- Conforms to National & International Standards-MORTH, India, American (AASHTO M180), Euro norm (EN 1317-1 & 2)
- In-house quality checking & dedicated in-house lab-having UTM, Zinc coating test facilities, Spectrometer etc
- Raw materials from highly reputed companies such SAIL / BHUSHAN / ESSAR
- High precision in-house roll forming machines
- Strict Quality Control and Quality Systems (ISO 9001:2008)
- Single source responsibility (Design & Engineering, Fabrication, Galvanising, Quality Check Supply)
- High reputation in Govt. and Private Sectors
- Huge production capacity and strict delivery commitment
- 100% Customer satisfaction



FASTNERS

- 16MM dia button heads bolts for splice joint and for connection of "W" and "THRIE" Beam to Spacer.
- 20MM dia hexagonal heads bolts for connecting spacer and posts conforming to IS:1364
- Hot dip galvanized.



POST/SPACER

- Cold roll formed "C" & "T" Channel
- Raw materials conforming to IS 5986/2062/10748 or equivalent of grade Fe360/Fe410
- Dimensions - 150MM X 75MM X 5MM thickness (length as per customer requirement)
- Post Spacing - 2Mtrs center to center or as per customer requirement

"THRIE" Beam

- Cold roll formed in thickness 3MM/2.8MM/2.67MM
- Raw materials conforming to IS 5986/2062/10748 or equivalent of grade Fe360/Fe410/Fe510
- Hot dip galvanized to 550gsm/sq.m
- Over all length 4318MM/3318MM/as per customized drawing
- Effective Length: 4000MM/3000MM
- Width: 510MM

SALIENT FEATURES

- Metal Beam Crash Barrier ensures minimum damage to the vehicle and its riders.
- Absorbs sudden impact on collision and thus minimizes injuries.
- Guides drivers especially at night to maintain the track and hence minimizes accidents.
- Enables quick repairs in case of accidents.
- All components are hot dip galvanized as per IS:1364 hence ensures longer life.

Production Facility & Capacity

- Heavy duty roll forming Lines.
- Seperate roll forming lines for "W" Beam and "THRIE" beam.
- 2 in house galvanizing plants.
- Capacity upto roll 1,000 KMPA of Crash Barrier.
- Highly skilled operators.

MISSION

To provide high quality Steel Products to consistently meet customers' specific requirements by using innovative technologies within an environment of motivated and dedicated employees who are determined to achieve perfection, highest business standards and work ethics.

VISION

To be a globally admired organization that manufactures innovative Steel Products through sustainable industrial and business development and delivering excellence with reliability.



PRODUCTION PROCESS

- Slitting in to the required width and length
- General cleaning of the raw material
- Feeding the raw material into the roll forming machine
- Punching the fixing holes
- Quality check
- Picking the roll formed beam in the pickling bath
- Hot Dipped galvanizing
- Accessory fabrication/procurement
- Packing

METAL BEAM CRASH BARRIER



APPLICATION

- Restraining Barriers on embankments of Highways Expressway.
- Used as median and separator in four/six lane roads.
- Protection Barriers for hilly terrains.
- Crash Guard for car racing track.
- Internal traffic safety at Plants, Mines, Collieries, Airport etc.

Our Metal Beam Crash Barriers conforming to approved specifications are as follows:

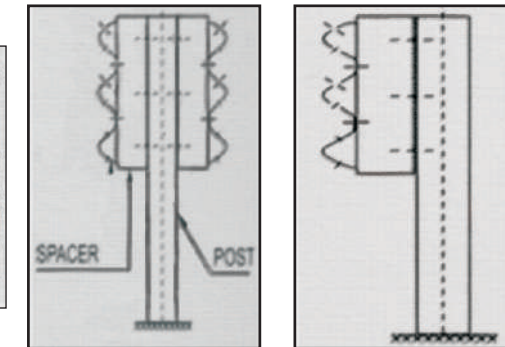
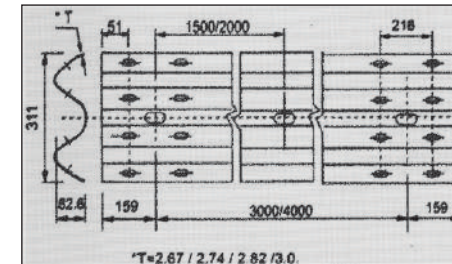
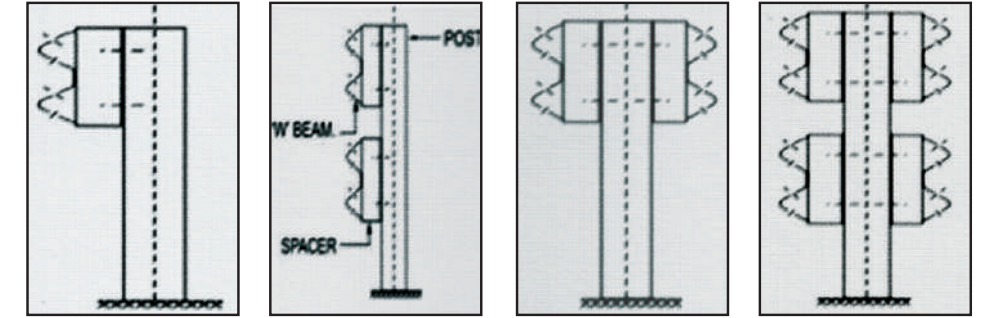
- Ministry Of Road Transport & Highways, India (MORTH).
- American (AASHTO M180).

PRODUCT RANGE

Dashlane Corporation manufactures all the components, adhering to the standard specifications of MORTH, India, Clause No. 810.

W BEAM

- Single Side Single Barrier
- Single Side Double Barrier
- Double Side Single Barrier
- Double Side Double Barrier



THRIE BEAM

- Single side single barrier
- Double side single barrier

"W" BEAMS

- Cold roll formed in thickness 3MM/2.8MM/2.67MM
- Raw materials conforming to IS 5986/2062/10748 or equivalent of grade Fe360/Fe410/Fe510
- Hot dip galvanized to 550GSM/SQ.M
- Over all length 4318MM/3318MM/as per customized drawing
- Effective length: 4000MM/3000MM Width:311MM



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DASHLANE CORPORATION PRIVATE LIMITED





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PRIVATE LIMITED

Quality is remembered long after the price is forgotten

Quality is the guiding force at DCPL and total quality control is an integral part of the manufacturing process from raw material procurement to finished tubes. The products are rigorously tested in terms of surface finish, weld diameter, wall thickness, length and weight to confirm to quality standards.

Pipes are subjected to Hydro-Testing to ensure against leakages before galvanization and threading. Pipes are also randomly subjected to non destructive testing to ensure that welds, tensile and compressive strength meet prescribed quality standards.

Mission

To provide high quality steel products to consistently meet customer's specific requirements by using innovative technologies with an environment of motivated and dedicated employees who are determined to achieve perfection, highest business standards and work ethics.

Vision

To be a globally admired organization that manufactures innovative steel products through sustainable industrial and business development and delivering excellence with reliability.

Product Applications

WATER PIPELINES

Water Mains, Sewerage Systems, Industrial Water Lines, Plant Piping.

AGRICULTURE AND IRRIGATION

Deep Tube Wells and Casing Pipes.

GAS PIPELINES

Pipe Lines for Natural Gas, LPG and other non-Toxic Gas.

OIL PIPELINES

Oil Refinery Piping, Crude Oil Piping, Cross Country Pipeline.

CONSTRUCTION INDUSTRY

Scaffolding and Structural.

CHEMICAL INDUSTRY

Conveying of Chemicals.

FIRE FIGHTING

Sprinkler Systems.

POWER PROJECTS

Ash Handling System, LP Piping.

AUTOMOBILE INDUSTRY

Air and Water Flow System, Exhaust Piping.

MISCELLANEOUS

Steel Tubes for Idlers and Troughed Belt Conveyors Cold Storage Industry LPG Cylinder Supporting Rings, Green House.



"Manufacturing Reliability"

We Support





DASHLANE CORPORATION
PRIVATE LIMITED

Mild Steel Tubes

for use in Water, Gas, Air & Steam Application

CONFORMING TO IS:1239 (PART-1) 2004/ BS:1387/85

N.B. And Series	Outside Diameter		Wall Thickness		Nominal Weight Black Tubes				Nominal Weight Galvanized Tubes				Sockets	
mm	Min (mm)	Max (mm)	mm	SWG	Plain End		Screwed & Socked		Plain End		Screwed & Socked		Minimum OD	Maximum Length
					Kg/m	m/tonne	Kg/m	m/tonne	Kg/m	m/tonne	Kg/m	m/tonne	mm	mm
15 L	21.0	21.4	2.00	14	0.947	1056	0.956	1046	0.947	1056	0.956	1046	27.0	37.0
M	21.0	21.8	2.60	12	1.21	826	1.22	819	1.21	826	1.22	819		
H	21.0	21.8	3.20	10	1.44	694	1.45	689	1.44	689	1.45	689		
20 L	26.4	26.9	2.30	13	1.38	724	1.39	719	1.38	719	1.39	719	32.5	39.0
M	26.5	27.3	2.60	12	1.56	641	1.57	637	1.56	637	1.57	637		
H	26.5	27.3	3.20	10	1.87	534	1.88	532	1.87	532	1.88	532		
25 L	33.2	33.8	2.60	12	1.98	505	2.0	500	1.98	500	2.0	500	39.5	46.0
M	33.3	34.2	3.20	10	2.41	415	2.43	411	2.41	411	2.43	411		
H	33.3	34.2	4.00	8	2.93	341	2.95	339	2.93	339	2.95	339		
32 L	41.9	42.5	2.60	12	2.54	393	2.57	389	2.54	389	2.57	389	49.0	51.0
M	42.0	42.9	3.20	10	3.10	322	3.13	319	3.10	319	3.13	319		
H	42.0	42.9	4.00	8	3.79	264	3.82	261	3.79	261	3.82	261		
40 L	47.8	48.4	2.90	11	3.23	309	3.27	306	3.23	306	3.27	306	56.0	51.0
M	47.9	48.8	3.20	10	3.56	281	3.60	277	3.56	277	3.60	277		
H	47.9	48.8	4.00	8	4.37	229	4.41	226	4.37	226	4.41	226		
50 L	59.6	60.2	2.90	11	4.08	245	4.15	241	4.08	241	4.15	241	68.0	60.0
M	59.7	60.8	3.60	9	5.03	199	5.10	196	5.03	196	5.10	196		
H	59.7	60.8	4.50	7	6.19	161	6.26	159	6.19	159	6.26	159		
65 L	75.2	76.0	3.20	10	5.71	175	5.83	171	5.71	171	5.83	171	84.0	69.0
M	75.3	76.6	3.60	9	6.42	155	6.54	153	6.42	153	6.54	153		
H	75.3	76.6	4.50	7	7.93	126	8.05	124	7.93	124	8.05	124		
80 L	87.9	88.7	3.20	10	6.72	149	6.89	145	6.72	145	6.89	145	98.0	75.0
M	88.0	89.5	4.00	8	8.36	119	8.53	117	8.36	117	8.53	117		
H	88.0	89.5	4.80	6	9.90	101	10.10	96	9.90	96	10.40	96		
100 L	113.0	113.9	3.60	9	9.75	102	10.0	100	9.75	100	10.0	100	124.0	87.0
M	113.1	115.0	4.50	7	12.20	82	12.50	80	12.20	80	12.50	80		
H	113.1	115.0	5.40	5	14.50	69	14.80	67	14.50	67	14.80	67		
125 M	138.5	140.8	4.80	6	15.90	63	16.40	61	15.90	61	16.40	61	151.0	96.0
H	138.5	140.8	5.40	5	17.90	56	18.4	54	17.9	54	18.4	54		
150 M	163.9	166.5	4.80	6	18.90	53	19.50	51	18.90	51	19.50	51	178.0	96.0
H	163.9	166.5	5.40	5	21.30	47	21.9	45	21.30	45	21.9	45		

TOLERANCES

(a) Thickness

1. Light Tube + Not limited
-8%

2. Medium and Heavy Tubes +Not limited
-10%

(b) Weight

1. Single Tube +10%
(Light Series) -8%

2. Single Tube
(Medium And Heavy Series)

3. For Light Series

4. For Quantities per load of 10 tonnes
minimum (Medium and heavy Series)

(c) Length 4 to 7 meters unless
otherwise specified

+/- 10%

-5%, +7.5%

+/- 7.5%

MECHANICAL PROPERTIES

TS (MPa)	% EL (Minimum)
320	12 Upto & Including 25 mm NB
Min.	20 Above 25 mm NB

CHEMICAL COMPOSITION

As per IS: 10748



"Manufacturing Reliability"





DASHLANE CORPORATION
PRIVATE LIMITED

ERW Steel Tubes for Idlers for Belt Conveyors

CONFORMING TO IS : 9295 - 1983 DIMENSIONS AND NOMINAL MASSES

Outside Diameter mm	Thickness mm	Mass kg / Mtr	Mtr / tone
63.50	3.65	5.39	186
	4.05	5.87	170
	4.50	6.55	153
	4.85	7.01	143
	5.40	7.74	129
76.10	6.30	8.89	112
	3.65	6.52	153
	4.05	7.20	139
	4.50	7.95	126
	4.85	8.52	117
88.90	5.40	9.41	106
	6.30	10.84	92
	4.05	8.47	118
	4.50	9.36	107
	4.85	10.05	99
101.60	5.40	11.12	90
	6.30	12.83	78
	4.05	9.74	103
	4.50	10.78	93
	4.85	11.57	86
108.0	5.40	12.81	78
	6.30	14.81	68
	4.05	10.38	96
	4.85	12.34	81
	6.30	15.80	63
114.30	4.50	12.19	82
	4.85	13.09	76
	5.40	14.50	69
	6.30	16.78	60
127.0	4.50	13.60	74
	4.85	14.61	68
	5.40	16.19	62
	6.30	18.75	53

Outside Diameter mm	Thickness mm	Mass kg / Mtr	Mtr / tone
133.0	4.50	14.30	70
	5.40	16.99	59
	6.30	19.69	51
139.70	4.50	15.00	67
	4.85	16.13	62
	5.40	17.90	56
	6.30	20.73	48
152.40	4.50	16.40	61
	4.85	17.65	57
	5.40	19.50	51
	6.30	22.70	44
159.00	4.50	17.10	58
	4.85	18.44	54
	5.40	20.46	49
	6.30	23.72	42
165.10	4.50	17.80	56
	4.85	19.17	52
	5.40	21.27	47
	6.30	24.67	41
168.30	4.50	18.20	55
	4.85	19.55	51
	5.40	21.69	46
	6.30	25.17	40
193.70	5.40	25.10	40
	6.30	29.12	34
219.10	5.40	28.50	35
	6.30	33.06	30

TOLERANCES

* Outside Diameter	+ / - 0.8%
* Ovality below 168.3mm OD	0.5 mm
* Ovality including 168.3mm and above	1.0 mm

* Weight Kg / Mtr : Single tube	+/- 10%
For truck load of ten tonne	+/- 7.5%
* Thickness	+/- 10%



Steel Tubes for Water, Gas and Sewerage Purposes

CONFORMING TO IS:3589 / 2001 (GRADE FE 330 AND FE 410)

Outside Diameter mm	Thickness mm	Weight (Plain End)	
		Kg / M	M / Tonne
168.3	2.6	10.6	94
	3.2	13.02	77
	4.0	16.20	62
	4.5	18.2	55
219.1	2.6	13.9	72
	3.6	19.1	52
	4.5	23.8	42
	6.3	33.1	30
	7.0	36.61	27
	8.0	41.64	24
273.0	3.6	23.9	42
	4.0	26.5	38
	5.0	33.0	30
	6.3	41.4	24
	7.0	45.92	22
	8.0	52.28	19
323.9	4.0	31.6	31
	4.5	35.4	28
	5.6	44.0	23
	7.1	55.5	18
355.6	4.0	34.7	29
	5.0	43.2	23
	5.6	48.3	21
	8.0	68.6	15
406.4	4.0	39.7	25
	5.0	49.5	20
	6.3	62.2	16
	8.8	86.3	12

TOLERANCES

a. Outside Diameter	+/- 0.75%
b. Thickness	+/- 10%

c. Length

Unless otherwise specified, length are in single random Length of 4 to 7 meters or double random length of 7 to 14 M

Also Available:
Internal Bead Free & Screwed & Socketed
Black & Galvanized Pipes

CHEMICAL COMPOSITION

Steel Grade	% C (Max)	% Mn (Max)	% P (Max)	% S (Max)	CE (Max)
Fe 330	0.16	1.20	0.040	0.040	-
Fe 410	0.20	1.30	0.040	0.040	0.45

MECHANICAL PROPERTIES

YST (MPa) Min	TS (MPa) Min	% EL (Min)
195	330	20
235	410	18



"Manufacturing Reliability"

We Support





DASHLANE CORPORATION
PRIVATE LIMITED

Hollow Steel Sections for Structural Use

CONFORMING TO IS : 4923 1997 (HOT DIP / BLACK, GALVANIZED & PRE GALVANIZED)

Square Hollow Sections (SHS)

Section SHS (mm)	Depth D (mm)	Width B (mm)	Thickness T (mm)	Weight W (Kg / m)	Mtr. / Tonne
20 x 20	20.00	20.00	1.80	0.964	1037
	20.00	20.00	2.00	1.05	952
	20.00	20.00	2.40	1.21	826
	20.00	20.00	2.60	1.28	779
25 x 25	25.00	25.00	2.60	1.69	591
	25.00	25.00	3.20	1.98	504
30 x 30	30.00	30.00	2.60	2.10	476
	30.00	30.00	3.20	2.49	402
	30.00	30.00	4.00	2.94	340
32 x 32	32.00	32.00	2.00	1.80	555
	32.00	32.00	2.40	2.11	473
	32.00	32.00	2.60	2.26	442
	32.00	32.00	2.90	2.48	403
	32.00	32.00	3.20	2.69	372
35 x 35	35.00	35.00	1.60	1.63	615
	35.00	35.00	1.80	1.81	552
	35.00	35.00	2.00	1.99	502
	35.00	35.00	2.60	2.51	399
	35.00	35.00	3.20	2.99	335
38 x 38	38.00	38.00	2.00	2.80	459
	38.00	38.00	2.40	2.57	390
	38.00	38.00	2.60	2.75	363
	38.00	38.00	2.90	3.03	330
	38.00	38.00	3.20	3.29	304
	38.00	38.00	3.60	3.63	276
40 x 40	40.00	40.00	2.60	2.92	343
	40.00	40.00	3.20	3.49	286
	40.00	40.00	3.60	3.85	260
	40.00	40.00	4.00	4.20	238
49.5 x 49.5	49.5	49.5	2.00	2.90	345
	49.5	49.5	2.40	3.43	291
	49.5	49.5	2.60	3.69	271
	49.5	49.5	2.90	4.07	245
	49.5	49.5	3.20	4.45	225
	49.5	49.5	3.60	4.93	203
49.5	49.5	49.5	4.00	5.39	185
	49.5	49.5	4.50	5.95	168

Section SHS (mm)	Depth D (mm)	Width B (mm)	Thickness T (mm)	Weight W (Kg / m)	Mtr. / Tonne
60 x 60	60.00	60.00	2.00	3.56	281
	60.00	60.00	2.40	4.22	237
	60.00	60.00	2.60	4.55	220
	60.00	60.00	2.90	5.03	199
	60.00	60.00	3.20	5.50	182
	60.00	60.00	3.60	6.11	164
	60.00	60.00	4.00	6.71	149
	60.00	60.00	4.50	7.57	136
70 x 70	70.00	70.00	2.40	4.98	201
	70.00	70.00	2.60	5.37	186
	70.00	70.00	2.90	5.94	168
	70.00	70.00	3.20	6.51	154
	70.00	70.00	3.60	7.24	138
	70.00	70.00	4.00	7.97	126
72 x 72	72.00	72.00	3.20	6.71	149
	72.00	72.00	4.00	8.22	122
	72.00	72.00	4.50	9.66	103
80 x 80	80.00	80.00	2.40	5.73	174
	80.00	80.00	2.60	6.18	162
	80.00	80.00	2.90	6.85	146
	80.00	80.00	3.20	7.51	133
	80.00	80.00	3.60	8.37	119
	80.00	80.00	4.00	9.22	108
91.5 x 91.5	91.5	91.5	3.6	9.67	103
	91.5	91.5	4.5	11.88	84
	91.5	91.5	5.4	14.01	71
100 x 100	100.00	100.00	3.20	9.52	105
	100.00	100.00	3.60	10.64	94
	100.00	100.00	4.00	11.73	85
	100.00	100.00	4.50	13.09	76
	100.00	100.00	4.80	13.88	72
	100.00	100.00	5.00	14.41	69
132 x 132	132.00	132.00	4.80	18.71	53
	132.00	132.00	5.40	20.88	48
150 x 150	150.00	150.00	5.0	22.26	45
	150.00	150.00	6.0	26.40	38

Hollow Steel Sections for Structural Use

Rectangular Hollow Sections (RHS)

Section SHS (mm)	Depth D (mm)	Width B (mm)	Thickness T (mm)	Weight W (Kg / m)	Mtr. / Tonne
30 x 30	30.00	20.00	2.00	1.36	733
40 x 20	40.00	20.00	2.00	1.68	596
40 x 30	40.00	30.00	2.00	1.99	502
	40.00	30.00	2.40	2.34	427
	40.00	30.00	2.60	2.51	399
	40.00	30.00	2.90	2.75	363
	40.00	30.00	3.20	2.99	335
	40.00	30.00	4.00	3.57	280
50 x 25	50.00	25.00	2.90	2.98	335
	50.00	25.00	3.20	3.24	309
50 x 30	50.00	30.00	2.00	2.31	434
	50.00	30.00	2.40	2.72	368
	50.00	30.00	2.60	2.92	343
	50.00	30.00	2.90	3.21	312
	50.00	30.00	3.20	3.49	286
	50.00	30.00	4.00	4.20	238
50 x 40	50.00	40.00	2.00	2.62	382
	50.00	40.00	2.40	3.09	323
	50.00	40.00	2.60	3.33	301
	50.00	40.00	2.90	3.66	273
	50.00	40.00	3.20	3.99	250
	50.00	40.00	4.00	4.83	207
60 x 30	60.00	30.00	1.60	2.13	471
	60.00	30.00	1.80	2.38	421
	60.00	30.00	2.00	2.62	382
	60.00	30.00	2.60	3.33	301
	60.00	30.00	3.20	3.99	250
66 x 33	66.00	33.00	2.90	4.07	245
	66.00	33.00	3.60	4.93	203
	66.00	33.00	4.50	5.95	168
60 x 40	60.00	40.00	2.00	2.93	341
	60.00	40.00	2.40	3.47	288
	60.00	40.00	2.60	3.73	268
	60.00	40.00	3.20	4.50	222
	60.00	40.00	4.00	5.45	183
	60.00	40.00	4.00	5.45	183
70 x 30	70.00	30.00	2.90	4.12	243
	70.00	30.00	3.20	4.50	222
	70.00	30.00	4.00	5.45	183

Section SHS (mm)	Depth D (mm)	Width B (mm)	Thickness T (mm)	Weight W (Kg / m)	Mtr. / Tonne
75 x 50	75.00	50.00	1.60	3.01	332
	75.00	50.00	1.80	3.37	297
	75.00	50.00	2.00	3.72	269
	75.00	50.00	2.60	4.75	210
	75.00	50.00	3.20	5.75	174
76 x 38	76.00	38.00	2.90	4.76	210
	76.00	38.00	3.20	5.20	192
	76.00	38.00	3.60	5.77	173
	76.00	38.00	4.00	6.33	158
	76.00	38.00	4.00	6.33	158
80 x 40	80.00	40.00	2.90	5.03	199
	80.00	40.00	3.20	5.50	182
	80.00	40.00	4.00	6.71	149
80 x 50	80.00	50.00	2.90	5.49	182
	80.00	50.00	3.20	6.00	167
	80.00	50.00	3.60	6.68	150
	80.00	50.00	4.00	7.34	136
96 x 48	96.00	48.00	3.20	6.71	149
	96.00	48.00	4.00	8.22	122
	96.00	48.00	4.80	9.66	103
100 x 50	100.00	50.00	3.20	7.01	143
	100.00	50.00	3.60	7.81	128
	100.00	50.00	4.00	8.59	116
	100.00	50.00	4.50	9.55	105
115 x 60	115.00	60.00	3.20	8.26	121
	115.00	60.00	3.60	9.22	108
	115.00	60.00	4.00	10.16	98
	115.00	60.00	4.50	11.32	88
	115.00	60.00	4.80	12.00	83
	115.00	60.00	5.00	12.45	80
122 x 61	122.00	61.00	3.6	9.67	103
	122.00	61.00	4.5	11.88	84
	122.00	61.00	5.4	14.01	71
145 x 82	145.00	82.00	4.8	15.92	63
	145.00	82.00	5.4	17.74	56
160 x 80	160.00	80.00	4.00	14.25	70
	160.00	80.00	5.00	17.55	57
172 x 92	172.00	92.00	4.8	18.71	56
	172.00	92.00	5.4	20.88	48

TOLERANCE

O.D.

1% With Minimum +/- 0.5 mm

Thickness

+/- 10%

Weight

- 8% + 10%

Single Pipe

- 8% + 10%

On lots of 10 Tonne

+/- 7.5%

GRADE	T.S. (MIN) Mpa	Y.S. (MIN) Mpa	Elongation	
			25.4 mm & under	Over 25.4 mm
Yst - 210	330	210	12	20
Yst - 240	410	240	10	15
Yst - 310	450	310	8	10



"Manufacturing Reliability"

We Support





DASHLANE CORPORATION
PRIVATE LIMITED

Steel Tubes for Structural Purposes

CONFORMING TO IS: 1161:1998

N.B. and Series	Outside Diameter	Thickness	Nominal Weight Black Tubes Plain End		Calculated Nominal Weight Galvanized Tubes Plain End	
			Kg/m	m/tonne	Kg/m	m/tonne
15 L	21.3	2.0	0.947	1058	1.00	1003
M		2.6	1.21	826	1.26	794
H		3.2	1.44	694	1.49	671
20 L	26.9	2.3	1.38	725	1.43	699
M		2.6	1.56	641	1.61	621
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		4.0	2.93	341	2.98	336
32 L	42.4	2.6	2.54	394	2.62	382
M		3.2	3.10	323	3.18	314
H		4.0	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		4.0	4.37	229	4.48	223
50 L	60.3	2.9	4.08	245	4.20	238
M		3.6	5.03	199	5.15	194
H		4.5	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	8.10	123
80 L	88.9	3.2	6.72	149	6.90	145
M		4.0	8.63	120	8.54	117
H		4.8	9.90	101	10.08	99
90 L	101.6	3.6	8.70	115	8.97	111
M		4.0	9.63	144	7.20	139
H		4.8	11.50	87	11.77	85
100 L	114.3	3.6	9.75	103	9.97	100
M		4.5	12.20	82	12.42	81
H		5.4	14.50	69	14.72	68

A. CHEMICAL COMPOSITION As per IS: 10748

B. TENSILE PROPERTIES

GRADE	Y.S. (MIN) Mpa (Kg/mm2)	T.S. (MIN) Mpa (Kg/mm2)	%age Elongation
YST-210	210 (21.42)	330 (33.66)	20
YST-240	240 (24.48)	410 (41.82)	17
YST-310	310 (31.62)	450 (45.9)	8

NOTE: For tube size upto and including 25 mm NB, elongation of 12% shall be permissible

N.B. and Series	Outside Diameter	Thickness	Nominal Weight Black Tubes Plain End		Calculated Nominal Weight Galvanized Tubes Plain End	
			Kg/m	m/tonne	Kg/m	m/tonne
110 L	127.0	4.5	13.60	74	13.90	72
M		4.8	14.50	69	14.80	68
H		5.4	16.20	62	16.80	61
125 L	139.7	4.5	15.00	67	15.25	66
M		4.8	15.90	63	16.15	62
H		5.4	17.90	56	18.15	55
135 L	152.4	4.5	16.40	61	16.78	60
M		4.8	17.50	57	17.88	56
H		5.4	19.60	51	19.98	55
150 L	165.1	4.5	17.80	56	18.20	55
M		4.8	18.90	52	19.80	51
H		5.4	21.30	47	21.70	46
150 L	168.3	4.5	18.2	55	18.66	54
M		4.8	19.4	52	19.88	50
H1		5.4	21.7	46	22.24	45
H2		6.3	25.2	40	41.00	24
175 L	193.7	4.8	22.40	45	22.94	44
M		5.4	25.10	40	25.64	39
H		5.9	27.30	37	27.84	36
200 L	219.1	4.8	25.40	39	25.95	39
M		5.6	29.50	34	30.05	33
H		5.9	31.00	32	31.55	32
225 H	244.5	5.9	34.70	29	35.36	28
250 H	273.0	5.9	38.90	26	39.68	25
300 H	323.9	6.3	49.30	20	50.28	20
350 H	355.6	8.0	68.60	15	69.58	14

C. TOLERANCES

i) Outside diameter upto & including 48.3 mm
+0.4 mm -0.8 mm Over 48.3 mm +/- 1 %

D. THICKNESS

For all sizes
Welded Tubes + Not Limited
- 10%

E. WEIGHT

Single tube (Light Class) - 8%
+ 10%

For medium & Heavy Class
10 Tonne Light, Medium
& Heavy +/- 10%
+/- 5%
+/- 7.5%



"Manufacturing Reliability"





DASHLANE CORPORATION
PRIVATE LIMITED

Steel Tubes for Water Wells (Casing Pipes)

CONFORMING TO IS : 4270 / 2001

N.B. of Pipe MM	Outside Diameter	Thickness	Nominal Weight Black Tubes Plain End	
	mm	mm	kg/ m	m /tonne
100	114.3	5.4	14.5	69
125	141.3	5.4 7.1	18.1 23.5	55 43
150	168.3	5.4 7.1	21.6 28.2	46 35
175	193.7	6.4 8.0	29.6 36.6	34 27
200	219.1	6.4 8.0	33.6 41.6	30 24
225	244.5	7.1 9.0	41.6 52.3	24 19
250	273.1	8.0 10.0	52.3 64.9	19 15
300	323.9	8.0 10.0	62.3 77.4	16 13
350	355.6	9.52	81.25	12
400	406.4	9.52	93.17	11

A. PHYSICAL PROPERTIES

Grade	Y. S. (min) MPa (kg/mm ²)	T. S. (min) MPa (kg/mm ²)	% age Elongation
Fe410	235	410	15
Fe450	275	450	13

B. TOLERANCE

- Outside Diameter 1%
- Thickness
 - Welded tube Up to
And including 406.4 MM
 - +15% }
 - 12.5% }
 - Over 406.4 MM outside
Diameter
 - +15% }
 - 10% }
- Weight
 - Single Tube
 - 8%
 - + 10%
 - + 10%



Lancing Pipes for use in Blast Furnace & Gas Transportation

Specifications as per IS: 10577 : 1982

Nominal Bore	Outside Diameter			Thickness	Mass of Black Tube			
	Series	Maximum	Maximum		Plain Ended		Screwed and Socketed	
mm		mm	mm	mm	Kg/Mtr	Mtr/Tonne	Kg/Mtr	Mtr/Tonne
6	Light	10.10	9.70	1.80	0.361	2770	0.364	2747
	Medium	10.60	9.80	2.00	0.407	2457	0.410	2439
	Heavy	10.60	9.80	2.65	0.493	2028	0.496	2016
8	Light	13.60	13.20	1.80	0.517	1934	0.521	1919
	Medium	14.00	13.20	2.35	0.650	1538	0.654	1529
	Heavy	14.00	13.20	2.90	0.769	1300	0.773	1294
10	Light	17.10	16.70	1.80	0.674	1484	0.680	1471
	Medium	17.50	16.70	2.35	0.852	1174	0.858	1166
	Heavy	17.50	16.70	2.90	1.020	980	1.030	971
15	Light	21.40	21.00	2.00	0.952	1050	0.961	1041
	Medium	21.80	21.00	2.65	1.220	820	1.230	813
	Heavy	21.80	21.00	3.25	1.450	690	1.460	685
20	Light	26.90	26.40	2.35	1.410	709	1.420	704
	Medium	27.30	26.50	2.65	1.580	633	1.590	629
	Heavy	27.30	26.50	3.25	1.900	526	1.910	524
25	Light	33.80	33.20	2.65	2.010	498	2.030	493
	Medium	34.20	33.30	3.25	2.440	410	2.460	407
	Heavy	34.20	33.30	4.05	2.970	337	2.990	334

Tolerances						
Series	Thickness		Single Pipe		For quantities	
	+	-	+	-	+	-
Light	No Limit	8%	No Limit	8%	No Limit	8%
Medium	No Limit	10%	No Limit	10%	No Limit	7.5%
Heavy	No Limit	10%	No Limit	10%	No Limit	7.5%



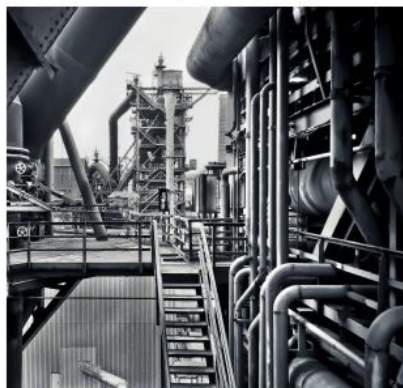
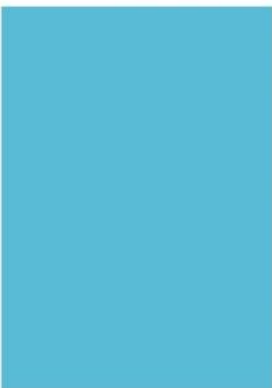
"Manufacturing Reliability"

We Support





DASHLANE CORPORATION
PRIVATE LIMITED



Mild Steel Tubes | Steel Tubes for Idlers Hollow Steel Sections | Steel Tubes - Structural Lancing Pipes

Product Range

Dashlane Corporation pvt. ltd production range comprise of various National and International Standards as given below :

Indian Standards

- IS 1161..... Grade YST 210 240 and 310 for Structural Purpose
- IS 1239 Part 1..... For ordinary use in Water, Gas and Air Lines
- IS 1978 Part 2 Grade YST 210 and 410 for use in Oil and Natural Gas Industries
- IS 3589 Part 3 Grade 330 and 410 for Water, Gas and Sewerage Purpose
- IS 3601 Part 4 Steel Tubes for Mechanical and Engineering Purpose
- IS 4270 Part 5 Steel Tubes for Water Wells [Casing Pipes]
- Is 9295 Part 6 For Idlers and Conveyors
- IS 10577 Oxygen Lancing Pipes
- IS 4923 Square & Rectangular Hollow Section

British Standards

- BS 1387 Part 1 For Ordinary use in Water and Gas Lines
- BS 1139 Part 2 Tubes for Metal Scaffolding
- BS 1775 Part 3 For Mechanical Structural and General Engineering Purpose

American Standards

- ASTM [A120] Part 1 For ordinary use in Water Gas and Air Lines
- ASTM [A53] Part 2 For ordinary use in Water, Gas and Air Lines

German Standards

- DIN 2439, 2440, 2441 Part 1 For use in Water, Gas and Air Lines

European Standard (CE Certified through DNV-GL)

- EN 10255/ EN 10240A1 & EN 10219/ EN 10240A1, B1 & EN-39



"Manufacturing Reliability"



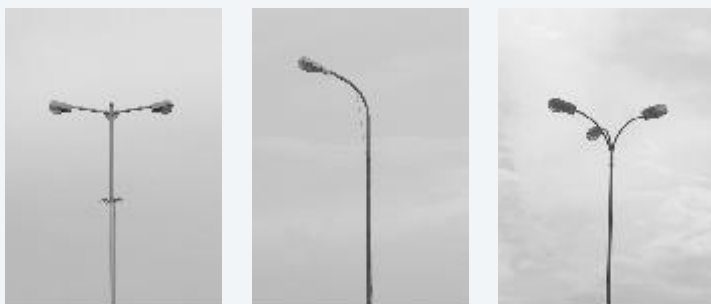


DASHLANE CORPORATION
PRIVATE LIMITED
SWAGED TUBULAR STEEL POLES



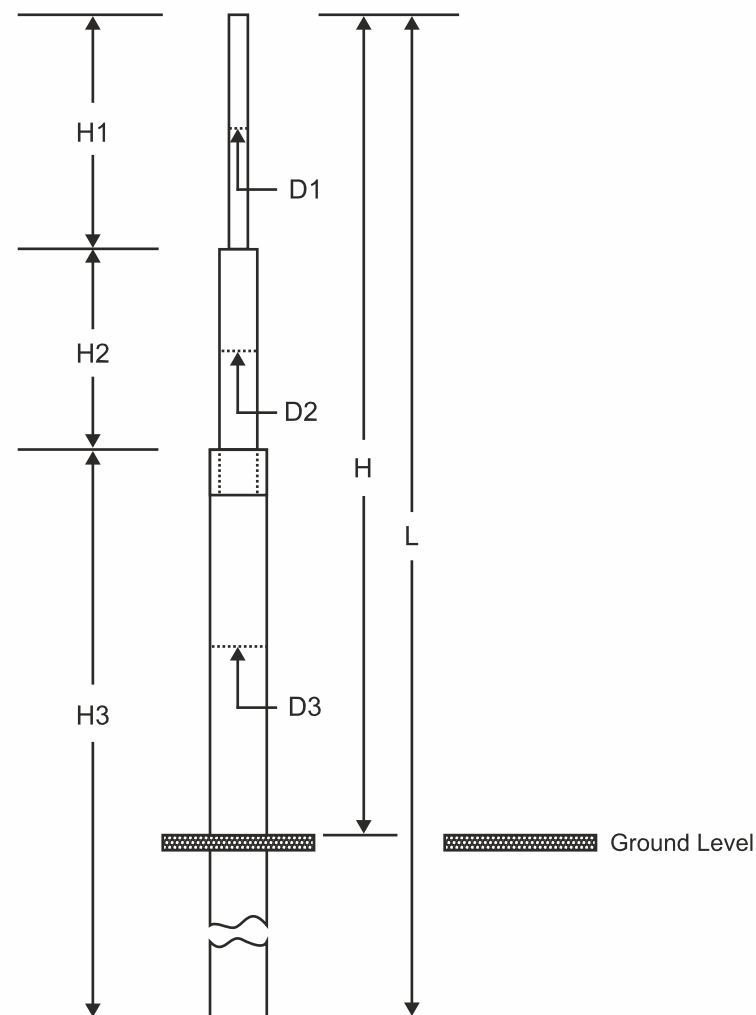
TOLERANCES OF STEEL TUBULAR POLES

Outside Diameter	+/- 1%
Thickness	-10%
Section Length	+/- 40mm
Overall Length	+/- 25mm
Weight - Bulk	-5%
Weight - Single	-7.5%
Straightness	1/600



Poles of Customized Dimensions and Design
can also be manufactured as per client requirements.

SPECIFICATION GUIDE



SWAGED POLES MADE FROM STEEL OF ULTIMATE TENSILE STRENGTH 410 MPa [42 kgf/mm² AS PER IS-2713]
7.0 m - 9.5 m

Designation	Overall Length	Planting Depth	Load Applied from Top at a Distance of	Height above Ground	Length of Sections Bottom	Length of Sections Middle	Length of Sections Top	Outside Diameter and Thickness of Sections Bottom	Outside Diameter and Thickness of Sections Middle	Outside Diameter and Thickness of Sections Top	Approximate Weight of Poles	Breaking Load	Crippling Load	Working Load Crippling Load / 2	Working Load Breaking Load / 2.5	Load for Permanent Set not exceeding 13 mm	Load for Temporary Deflection of 157.5 mm
[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[kg]	[kg]	N[kg]	N[kg]	N[kg]	N[kg]	N[kg]
410 sp-01	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25	62	2570 (262)	1820 (186)	912 (93)	1030 (105)	1245 (127)	785 (80)
410 sp-02	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25	73	3100 (316)	2240 (224)	1100 (112)	1240 (126)	1510 (154)	941 (96)
410 sp-03	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3 x 5.40	88.9 x 4.85	76.1 x 3.25	85	3630 (370)	2580 (263)	1280 (131)	1450 (148)	1760 (180)	1090 (111)
410 sp-04	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25	67	2350 (240)	1870 (170)	1320 (135)	941 (98)	1150 (117)	827 (84)
410 sp-05	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25	79	2760 (281)	1980 (200)	981 (200)	1100 (112)	1340 (137)	745 (76)
410 sp-06	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3 x 5.40	88.9 x 4.85	76.1 x 3.25	93	3320 (339)	2380 (241)	1130 (241)	1330 (138)	1620 (185)	873 (89)
410 sp-07	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25	97	4330 (442)	3080 (314)	1540 (157)	1740 (177)	2110 (215)	1400 (143)
410 sp-08	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7 x 4.85	114.3 x 3.65	88.9 x 3.25	103	4630 (472)	3280 (335)	1650 (168)	1850 (189)	2250 (229)	1480 (151)
410 sp-09	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7 x 5.40	114.3 x 3.65	88.9 x 3.25	110	5100 (520)	3620 (369)	1810 (185)	2040 (208)	2480 (253)	1600 (163)
410 sp-10	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25	70	2260 (230)	1600 (163)	804 (82)	902 (92)	1100 (112)	520 (53)
410 sp-11	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25	83	2730 (278)	1930 (197)	971 (99)	1090 (111)	1320 (135)	618 (63)
410 sp-12	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3 x 5.40	88.9 x 4.85	76.1 x 3.25	97	3190 (325)	2270 (231)	1130 (115)	1270 (130)	1550 (158)	725 (74)
410 sp-13	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25	101	4160 (424)	2950 (301)	1480 (151)	1670 (170)	2020 (205)	1180 (120)
410 sp-14	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7 x 4.85	114.3 x 4.50	88.9 x 3.25	111	4440 (453)	3180 (322)	1580 (161)	1770 (181)	2180 (222)	1280 (131)
410 sp-15	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7 x 5.40	114.3 x 4.50	88.9 x 3.25	119	4890 (499)	3470 (354)	1740 (177)	1960 (200)	2380 (243)	1380 (140)
410 sp-16	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25	75	2090 (213)	1480 (151)	745 (76)	834 (85)	1020 (104)	432 (44)
410 sp-17	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25	89	2520 (257)	1790 (182)	893 (91)	1010 (103)	1230 (125)	510 (52)
410 sp-18	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3 x 5.40	88.9 x 4.85	76.1 x 3.25	104	2950 (301)	2100 (214)	1050 (107)	1180 (120)	1430 (148)	598 (61)
410 sp-19	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25	109	3844 (392)	2730 (278)	1380 (139)	1540 (157)	1800 (191)	961 (98)
410 sp-20	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7 x 4.85	114.3 x 3.65	88.9 x 3.25	115	4110 (419)	2910 (297)	1480 (140)	1650 (168)	2000 (204)	1010 (103)
410 sp-21	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7 x 5.40	114.3 x 4.50	88.9 x 3.25	129	4530 (462)	3220 (328)	1620 (164)	1810 (185)	2210 (225)	1130 (115)
410 sp-22	8.50	1.50	0.30	7.00	5.00	1.75	1.75	165.1 x 4.50	139.7 x 4.50	114.3 x 3.65	141	5450 (556)	3870 (395)	1930 (197)	2130 (222)	2650 (270)	1730 (176)
410 sp-23	8.50	1.50	0.30	7.00	5.00	1.75	1.75	165.1 x 4.85	139.7 x 4.50	114.3 x 3.65	148	5840 (596)	4150 (423)	2080 (212)	2330 (238)	2840 (290)	1820 (186)
410 sp-24	8.50	1.50	0.30	7.00	5.00	1.75	1.75	165.1 x 5.40	139.7 x 4.50	114.3 x 3.65	158	6450 (658)	4580 (467)	2340 (234)	2579 (263)	3140 (320)	1970 (201)
410 sp-25	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3 x 3.65	88.9 x 3.25	76.1 x 3.25	78	1940 (198)	1380 (141)	688 (70)	775 (79)	941 (98)	333 (34)
410 sp-26	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3 x 4.50	88.9 x 4.05	76.1 x 3.25	92	2340 (239)	1670 (170)	834 (85)	941 (96)	1140 (116)	402 (41)
410 sp-27	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3 x 5.40	88.9 x 4.85	76.1 x 3.25	108	2750 (280)	1950 (199)	971 (99)	1100 (112)	1330 (136)	461 (47)
410 sp-28	9.00	1.50	0.30	7.50	5.00	2.00	2.00	139.7 x 4.50	114.3 x 3.65	88.9 x 3.25	113	3580 (365)	2540 (259)	1270 (130)	1430 (146)	1740 (177)	745 (76)
410 sp-29	9.00	1.50	0.30	7.50	5.00	2.00	2.00	139.7 x 4.85	114.3 x 4.50	88.9 x 3.25	125	3820 (390)	2728 (277)	1350 (138)	1530 (158)	1880 (190)	814 (83)
410 sp-30	9.00	1.50	0.30	7.50	5.00	2.00	2.00	139.7 x 5.40	114.3 x 4.50	88.9 x 3.25	133	4220 (430)	2990 (305)	1500 (153)	1690 (172)	2050 (209)	892 (90)
410 sp-31	9.00	1.50	0.30	7.50	5.00	2.00	2.00	165.1 x 4.50	139.7 x 4.50	114.3 x 3.65	147	5070 (517)	3600 (367)	1800 (184)	2030 (207)	2460 (251)	1360 (139)
410 sp-32	9.00	1.50	0.30	7.50	5.00	2.00	2.00	165.1 x 4.85	139.7 x 4.50	114.3 x 3.65	154	5430 (554)	3850 (393)	1930 (197)	2180 (222)	2640 (269)	1430 (146)
410 sp-33	9.00	1.50	0.30	7.50	5.00	2.00	2.00	165.1 x 5.40	139.7 x 4.50	114.3 x 3.65	164	6000 (612)	4270 (435)	2130 (217)	2410 (245)	2910 (297)	1540 (157)
410 sp-34	9.50	1.80	0.60	7.70	5.00	2.25	2.25	139.7 x 4.50	114.3 x 4.50	88.9 x 3.25	122	3630 (370)	2580 (263)	1280 (131)	1450 (148)	1780 (180)	745 (76)
410 sp-35	9.50	1.80	0.60	7.70	5.00	2.25	2.25	139.7 x 4.85	114.3 x 4.50	88.9 x 3.25	129	3880 (396)	2760 (281)	1390 (142)	1550 (158)	1880 (192)	784 (80)
410 sp-36	9.50	1.80	0.60	7.70	5.00	2.25	2.25	139.7 x 5.40	114.3 x 4.50	88.9 x 3.25	137	4280 (436)	3040 (310)	1520 (155)	1710 (174)	2080 (212)	833 (85)
410 sp-37	9.50	1.80	0.60	7.70	5.00	2.25	2.25	165.1 x 4.50	139.7 x 4.50	114.3 x 3.65	153	5150 (525)	3680 (373)	1820 (186)	2060 (210)	2500 (255)	1300 (133)
410 sp-38	9.50	1.80	0.60	7.70	5.00	2.25	2.25	165.1 x 4.85	139.7 x 4.50	114.3 x 3.65	160	5510 (562)	3910 (399)	1960 (200)	2210 (225)	2680 (273)	1370 (140)
410 sp-39	9.50	1.80	0.60	7.70	5.00	2.25	2.25	165.1 x 5.40	139.7 x 4.50	114.3 x 3.65	170	6090 (621)	4320 (441)	2180 (220)	2430 (248)	2980 (302)	1480 (151)

continued on next sheet...

SWAGED POLES MADE FROM STEEL OF ULTIMATE TENSILE STRENGTH 410 MPa [42 kgf/mm² AS PER IS-2713]

10.0 m - 16.0 m

Designation	Overall Length	Planting Depth	Load Applied from Top at a Distance of	Height above Ground	Length of Sections Bottom	Length of Sections Middle	Length of Sections Top	Outside Diameter and Thickness of Sections Bottom	Outside Diameter and Thickness of Sections Middle	Outside Diameter and Thickness of Sections Top	Approximate Weight of Poles	Breaking Load	Crippling Load	Working Load Crippling Load / 2	Working Load Breaking Load / 2.5	Load for Permanent Set not exceeding 13 mm	Load for Temporary Deflection of 157.5 mm
	L			H	H3	H2	H1	D3	D2	D1							
[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[kg]	[kg]	N[kg]	N[kg]	N[kg]	N[kg]	N[kg]
410 sp-40	10.00	1.80	0.80	8.20	5.20	2.40	2.40	139.7 X 4.50	114.3 x 4.50	88.9 x 3.25	128	3390 (346)	2410 (248)	1210 (123)	1350 (138)	1850 (188)	808 (82)
410 sp-41	10.00	1.80	0.80	8.20	5.20	2.40	2.40	139.7 X 4.85	114.3 x 4.50	88.9 x 3.25	135	3630 (370)	2580 (263)	1280 (131)	1450 (148)	1780 (180)	837 (85)
410 sp-42	10.00	1.80	0.80	8.20	5.20	2.40	2.40	139.7 X 5.40	114.3 x 4.50	88.9 x 3.25	144	3990 (407)	2830 (289)	1410 (144)	1600 (163)	1940 (198)	877 (89)
410 sp-43	10.00	1.80	0.80	8.20	5.20	2.40	2.40	165.1 X 4.50	139.7 x 4.50	114.3 x 3.65	160	4810 (490)	3410 (348)	1710 (174)	1920 (196)	2330 (238)	1060 (108)
410 sp-44	10.00	1.80	0.80	8.20	5.20	2.40	2.40	165.1 X 4.85	139.7 x 4.50	114.3 x 3.65	168	5150 (525)	3660 (373)	1820 (186)	2060 (210)	2500 (255)	1120 (114)
410 sp-45	10.00	1.80	0.80	8.20	5.20	2.40	2.40	165.1 X 5.40	139.7 x 4.50	114.3 x 3.65	178	5690 (580)	4040 (412)	2020 (206)	2280 (232)	2780 (282)	1200 (122)
410 sp-46	10.00	1.80	0.80	8.20	5.20	2.40	2.40	193.7 X 4.85	165.1 x 4.50	139.7 x 4.50	208	7210 (735)	5120 (522)	2560 (261)	2880 (294)	3500 (357)	1850 (189)
410 sp-47	10.00	1.80	0.80	8.20	5.20	2.40	2.40	193.7 X 5.40	165.1 x 4.50	139.7 x 4.50	221	7910 (807)	5820 (573)	2800 (286)	3170 (323)	3840 (392)	1990 (203)
410 sp-48	10.00	1.80	0.80	8.20	5.20	2.40	2.40	193.7 X 5.90	165.1 x 4.50	139.7 x 4.50	233	8620 (879)	6120 (624)	3060 (312)	3450 (352)	4190 (427)	2110 (215)
410 sp-49	11.00	1.80	0.80	9.20	5.80	2.70	2.70	139.7 X 4.50	114.3 x 4.50	88.9 x 3.25	140	3000 (306)	2130 (217)	1070 (109)	1200 (122)	1480 (149)	412 (42)
410 sp-50	11.00	1.80	0.80	9.20	5.80	2.70	2.70	139.7 X 4.85	114.3 x 4.50	88.9 x 3.25	147	3210 (327)	2280 (232)	1140 (116)	1280 (131)	1580 (159)	431 (44)
410 sp-51	11.00	1.80	0.80	9.20	5.80	2.70	2.70	139.7 X 5.40	114.3 x 5.40	88.9 x 3.25	164	3530 (360)	2510 (256)	1260 (128)	1410 (144)	1720 (175)	480 (49)
410 sp-52	11.00	1.80	0.80	9.20	5.80	2.70	2.70	165.1 X 4.50	139.7 x 4.50	114.3 x 3.65	175	4250 (433)	3010 (307)	1510 (154)	1700 (173)	2080 (210)	726 (74)
410 sp-53	11.00	1.80	0.80	9.20	5.80	2.70	2.70	165.1 X 4.85	139.7 x 4.50	114.3 x 3.65	183	4550 (464)	3230 (329)	1620 (165)	1820 (186)	2220 (226)	765 (78)
410 sp-54	11.00	1.80	0.80	9.20	5.80	2.70	2.70	165.1 X 5.40	139.7 x 4.50	114.3 x 3.65	194	5030 (513)	3570 (364)	1780 (182)	2010 (205)	2440 (249)	814 (83)
410 sp-55	11.00	1.80	0.80	9.20	5.80	2.70	2.70	193.7 X 4.85	165.1 x 4.50	139.7 x 4.50	227	6370 (650)	4530 (462)	2260 (231)	2550 (260)	3100 (316)	1270 (130)
410 sp-56	11.00	1.80	0.80	9.20	5.80	2.70	2.70	193.7 X 5.40	165.1 x 4.50	139.7 x 4.50	241	6990 (713)	4920 (502)	2480 (253)	2790 (285)	3400 (347)	1370 (140)
410 sp-57	11.00	1.80	0.80	9.20	5.80	2.70	2.70	193.7 X 5.90	165.1 x 4.85	139.7 x 4.50	256	7620 (777)	5410 (552)	2710 (276)	3050 (311)	3710 (378)	1470 (150)
410 sp-58	12.00	2.00	0.80	10.00	5.80	3.10	3.10	165.1 X 4.50	139.7 x 4.50	114.3 x 3.65	186	3880 (396)	2760 (281)	1380 (141)	1550 (158)	1880 (192)	539 (55)
410 sp-59	12.00	2.00	0.80	10.00	5.80	3.10	3.10	165.1 X 4.85	139.7 x 4.50	114.3 x 3.65	197	4160 (424)	2950 (301)	1480 (151)	1670 (170)	2020 (208)	569 (58)
410 sp-60	12.00	2.00	0.80	10.00	5.80	3.10	3.10	165.1 X 5.40	139.7 x 4.50	114.3 x 3.65	208	4600 (469)	3270 (333)	1630 (166)	1840 (188)	2240 (228)	598 (61)
410 sp-61	12.00	2.00	0.80	10.00	5.80	3.10	3.10	193.7 X 4.85	165.1 x 4.50	139.7 x 4.50	245	5820 (594)	4140 (422)	2070 (211)	2330 (238)	2830 (289)	951 (97)
410 sp-62	12.00	2.00	0.80	10.00	5.80	3.10	3.10	193.7 X 5.40	165.1 x 4.50	139.7 x 4.50	259	6390 (652)	4540 (463)	2270 (231)	2580 (261)	3110 (317)	1010 (103)
410 sp-63	12.00	2.00	0.80	10.00	5.80	3.10	3.10	193.7 X 5.90	165.1 x 4.85	139.7 x 4.50	277	6960 (710)	4940 (504)	2470 (252)	2790 (284)	3390 (345)	1090 (111)
410 sp-64	12.00	2.00	0.80	10.00	5.80	3.10	3.10	219.1 X 4.85	193.7 x 4.85	165.1 x 4.50	292	7490 (764)	5320 (542)	2660 (271)	3000 (306)	3640 (371)	1460 (149)
410 sp-65	12.00	2.00	0.80	10.00	5.80	3.10	3.10	219.1 X 5.40	193.7 x 4.85	165.1 x 4.50	313	8530 (871)	6060 (618)	3030 (309)	3410 (348)	4150 (423)	1610 (164)
410 sp-66	12.00	2.00	0.80	10.00	5.80	3.10	3.10	219.1 X 5.90	193.7 x 4.95	165.1 x 4.50	322	8980 (916)	6370 (650)	3190 (325)	3590 (366)	4380 (445)	1660 (169)
410 sp-67	13.00	2.00	0.80	11.00	5.80	3.60	3.60	193.7 X 4.85	165.1 x 4.50	139.7 x 4.50	261	5270 (537)	3740 (381)	1870 (191)	2110 (215)	2580 (261)	877 (89)
410 sp-68	13.00	2.00	0.80	11.00	5.80	3.60	3.60	193.7 X 5.40	165.1 x 4.85	139.7 x 4.50	281	5790 (590)	4110 (419)	2050 (209)	2310 (236)	2810 (287)	735 (75)
410 sp-69	13.00	2.00	0.80	11.00	5.80	3.60	3.60	193.7 X 5.90	165.1 x 5.40	139.7 x 4.50	302	6300 (642)	4470 (456)	2240 (228)	2520 (257)	3080 (312)	794 (81)
410 sp-70	13.00	2.00	0.80	11.00	5.80	3.60	3.60	219.1 X 4.85	193.7 x 4.85	165.1 x 4.50	312	6780 (691)	4820 (491)	2400 (245)	2710 (276)	3300 (338)	1060 (108)
410 sp-71	13.00	2.00	0.80	11.00	5.80	3.60	3.60	219.1 X 5.40	193.7 x 4.85	165.1 x 4.50	333	7720 (787)	5480 (559)	2740 (279)	3090 (315)	3750 (382)	1160 (118)
410 sp-72	13.00	2.00	0.80	11.00	5.80	3.60	3.60	219.1 X 5.90	193.7 x 4.85	165.1 x 4.50	343	8120 (828)	5770 (588)	2880 (294)	3250 (331)	3940 (402)	1190 (121)
410 sp-73	14.50	2.00	0.80	12.50	6.50	4.00	4.00	193.7 X 5.40	165.1 x 4.95	139.7 x 4.50	312	5050 (515)	3590 (366)	1790 (183)	2020 (206)	2450 (250)	500 (51)
410 sp-74	14.50	2.00	0.80	12.50	6.50	4.00	4.00	193.7 X 5.90	165.1 x 5.40	139.7 x 4.50	336	5500 (561)	3900 (561)	1950 (199)	2200 (224)	2680 (273)	539 (55)
410 sp-75	14.50	2.00	0.80	12.50	6.50	4.00	4.00	219.1 X 5.40	193.7 x 4.85	165.1 x 4.50	370	6750 (688)	4790 (483)	2390 (244)	2700 (275)	3780 (334)	775 (79)
410 sp-76	14.50	2.00	0.80	12.50	6.50	4.00	4.00	219.1 X 5.90	193.7 x 4.85	165.1 x 4.50	380	7100 (724)	5040 (514)	2520 (257)	2840 (290)	3450 (352)	794 (81)
410 sp-77	16.00	2.30	0.80	13.70	7.00	4.50	4.50	193.7 x 5.40	165.1 x 4.85	139.7 x 4.50	341	4590 (468)	3260 (332)	1630 (166)	1830 (187)	2230 (227)	363 (37)
410 sp-78	16.00	2.30	0.80	13.70	7.00	4.50	4.50	193.7 x 5.90	165.1 x 5.40	139.7 x 4.50	367	5000 (510)	3550 (362)	1780 (181)	2000 (204)	2430 (248)	392 (40)
410 sp-79	16.00	2.30	0.80	13.70	7.00	4.50	4.50	219.1 x 5.40	193.7 x 4.85	165.1 x 4.50	405	6130 (625)	4350 (444)	2180 (222)	2450 (250)	2980 (304)	589 (58)
410 sp-80	16.00	2.30	0.80	13.70	7.00	4.50	4.50	219.1 x 5.90	193.7 x 4.85	165.1 x 4.50	416	6440 (657)	4570 (466)	2280 (233)	2580 (263)	3130 (319)	568 (60)

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