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# LAYING THE FOUNDATIONS FOR A STRONGER — TOMORROW

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At MSP, we have always aspired to build a strong identity for the nation by manufacturing quality structural steel sections, contributing to the nation's core infrastructure. With our state-of-the-art integrated steel plant and an experienced workforce driven by the values of Innovation, Integrity, Teamwork & Excellence, we have worked towards our goals and aspirations over the years.

Along with a manufacturing process driven by highest quality standards, a BIS certified product range catering to multiple industries and a channel base spread across the country, we have been part of the development story of the nation of tomorrow.





**Driving progress.**  
**Supporting**  
**a billion ideas.**



World-class quality | Widest range of products | Pan-India availability

# ADVANTAGES

MSP's wide range of BIS certified structural steel sections with its nationwide availability are used in multiple segments - domestic, agricultural, industrial & infrastructural. A state-of-the-art manufacturing facility and strict quality control measures hold the promise of quality products catering to various economic segments thereby laying the foundation for a stronger nation.



## Widest range of products

Product range includes Angles, Channels, H-Beams, I-Beams & Round Bars which are made of multiple standard specs and sizes as well as cut to length and customised sizes as per customer requirements.



## Higher load carrying capacity

Due to exceptional sectional attributes, MSP structural steel sections have superior strength to weight ratio which is useful for all kinds of constructions.



## NABL certified testing facilities

MSP structural steel comes with the guarantee of quality certifications from the NABL certified lab at its integrated steel plant.its integrated steel plant.



## Convenience of fabrication

MSP structural sections find a wide range of application in the infrastructural, commercial, industrial, domestic and general engineering segments.



# APPLICATIONS

## GENERAL ENGINEERING

Automobile Chassis (bus, trailer)  
Truck & Bus Body Members  
Agricultural Equipment  
Bus Shelter  
Hoarding Structures

All MSP products are made from quality raw materials and pass through rigorous quality checks. Thus, our products are highly customisable and are used for a wide range of segments.

- General engineering
- Infrastructural
- Domestic
- Industrial



## INFRASTRUCTURAL

Platform Sheds  
Pedestrian Walkovers  
Foot Over-bridges  
Sign Supporting Structures  
Energy Infrastructure (Electric Pole)  
Road Construction  
Barrage Gate  
Water Tank Tower





## INDUSTRIAL

Equipment Establishment

Industrial Trusses

Factory/Plant Sheds

Fabrication



## DOMESTIC

Roofing

Grills

Window Reinforcement Structures

Building Commercial Houses



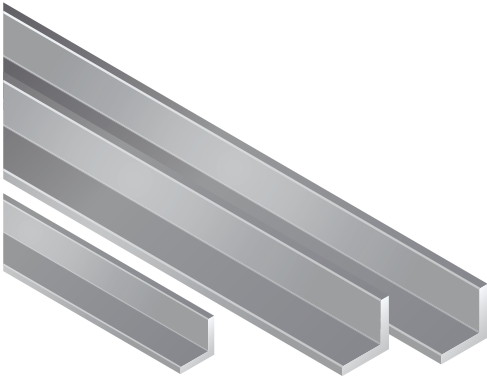
**Bridging distances.**  
**Supporting**  
**a billion dreams.**



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# PRODUCT SPECIFICATIONS

Product	Steel Structural Sections			
	Chemical	Symbol	% Limit	% Variation
	Carbon	C	0.10-0.23	0.02
	Manganese	Mn	0.40-1.5	0.05
	Silicon	Si	0.40 Max	0.03
	Sulphur	S	0.05 Max	0.005
	Phosphorous	P	0.055 Max	0.005
	Material will be supplied in semi-killed (A1) condition with limiting carbon equivalent			0.42 Max
Physical Properties	Minimum yield strength			250 MPa
	Minimum tensile strength			410 MPa
	Minimum % elongation			23
	IS			80
Normal Dimensions of Rolled Structural Sections	Weight tolerance on per m length			Channel & Beam
	Up to 200 mm depth			+4%, (-)1%
	Other section			+2.5%
	10m to 13m			
Normal Dimensions of Rolled Structural Sections	Customised length could be supplied based on supply terms and conditions			
	Length tolerance			+250mm
	As per BIS standard - IS			1852
Size Tolerance/Weight Tolerance	As per IS			2062, Fe 250 A
Grade of Material	Sections in Cu – bearing steel and higher-grade material could be supplied based on supply terms and conditions			
End Finish	Mechanically sheared/gas cut finish Supply in As Cut Conditions			
Weldability	Weldable with common M.S. electrodes without pre-heating			
Marketing/identification of Product	Every Structural Section is embossed (hot rolling) with size detail, ISI mark and Co's logo/Mark along the length at regular intervals			
Order Information	While placing an order, the following technical information would be needed: <ol style="list-style-type: none"> <li>1. Size and length of each piece and quantity</li> <li>2. Steel specification with grade/chemical composition/physical properties</li> <li>3. Test certificate requirement</li> <li>4. Special requirements, if any</li> </ol>			



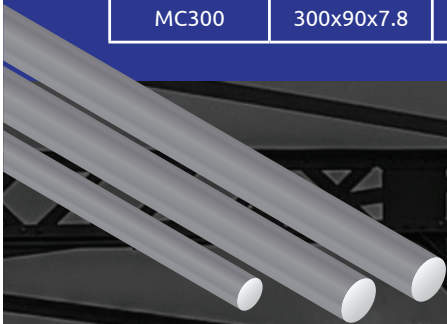
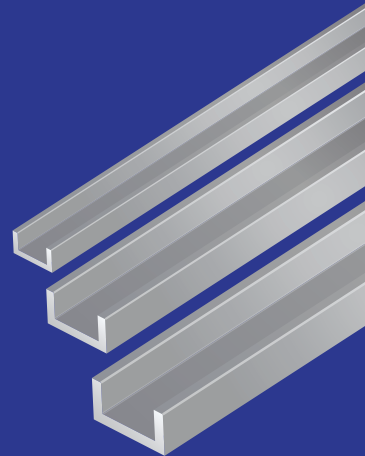
## ANGLE

Section Description	Dimension (A) x (B) x (t) mm	Section Weight (w) (Kg/Mtrs)	Section Area (a) cm <sup>2</sup>	Cxx Cyy (cm)		Moment of Inertia (cm <sup>2</sup> )		Radius of Gyration (cm <sup>4</sup> )		Moduli of Zxx = Zyy (cm)	
				lxx = lyy	luu	lvv	rxx = ryy	ruu	rvv		
A50x5050x50x6	4.5	5.68	1.45	12.9	20.6	5.3	1.51	1.9	0.96	3.6	
A65x6565x65x6	5.4	7.44	1.81	29.1	46.5	11.7	1.98	2.5	1.26	6.2	
	65x65x8	7	9.76	1.89	37.4	59.5	15.3	1.96	2.47	1.25	8.1
	65x65x10	8.6	12	1.97	45	71.3	18.8	1.94	2.44	1.25	9.9
A75x75	75x75x6	6.8	8.66	2.06	45.7	73.1	18.4	2.3	2.91	1.46	8.4
	75x75x8	8.9	11.4	2.14	59	94.1	24	2.28	2.88	1.45	11
	75x75x10	11	14	2.22	71.4	113	29.4	2.26	2.84	1.45	13.5
A90x90	90x90x6	8.2	10.2	2.42	80.1	128	32.0	2.77	2.50	1.75	12.2
	90x90x8	10.8	13.8	2.51	104	166	42.0	2.75	3.47	1.75	16.0
	90x90x10	13.4	17.0	2.59	127	202	51.6	2.73	3.44	1.74	19.80
A100x100	100x100x6	9.2	11.7	2.67	11	178	44.5	3.09	3.91	1.95	15.2
	100x100x8	12.1	15.4	2.76	145	232	58.4	3.07	3.88	1.95	20.0
	100x100x10	14.9	19.0	2.84	177	282	71.8	3.05	3.85	1.94	24.7
A130x130	130x130x8	15.9	20.3	3.50	331	526	136	4.04	5.10	2.59	34.9
	130x130x10	19.7	25.1	3.59	405	640	166	4.02	5.07	2.57	43.1
	130x130x12	23.5	29.9	3.67	476	757	196	3.99	5.03	2.56	51.0
A150x150	150x150x10	22.9	29.2	4.08	634	1010	260	4.66	5.87	2.98	58.0
	150x150x12	27.3	34.8	4.16	746	1190	306	4.63	5.84	2.97	68.8



# CHANNELS

Section Description	Dimension (h)x(b)x(tw) mm	Section Weight (w) (Kg/Mtrs)	Section Area (a) (cm <sup>2</sup> )	Centre of Gravity (Cyy) cm	Moment of Inertia (cm <sup>4</sup> )		Moment of Section (cm <sup>3</sup> )		Moment of Section (cm)	
					I <sub>xx</sub>	I <sub>yy</sub>	Z <sub>xx</sub>	Z <sub>yy</sub>	r <sub>xx</sub>	r <sub>yy</sub>
MC75	75x40x4.8	7.14	9.1	1.32	78.5	12.9	20.9	4.81	2.94	1.19
MC100	100x50x5.0	9.56	12.2	1.54	192	26.7	33.5	7.71	3.97	1.48
MC125	125x65x5.3	13.1	16.7	1.95	425	61.1	68.1	13.4	5.05	1.91
MC150	150x75x5.7	16.8	21.3	2.2	788	103	105	19.5	6.08	2.2
MC200	200x75x6.2	22.3	28.5	2.2	1830	141	181	26.4	8.02	2.22
MC250	250x80x7.2	30.6	39	2.3	3880	211	307	38.5	9.92	2.37
MC300	300x90x7.8	36.3	46.3	2.35	6420	313	428	47.1	11.8	2.6



## MS ROUND

Size in mm	Wt/Kg/Mtr.	Size in mm	Wt/Kg/Mtr.
30	5.55	125	96.34
32	6.31	140	120.84
36	7.99	160	157.84
38	8.90	180	199.76
40	9.86	200	246.62



A large human pyramid of silver-painted people in a field under a blue sky with power lines. The pyramid is composed of many people, with the top person having their arms raised. The people are arranged in a tiered structure, with the base being the widest and the top being the narrowest. The background is a clear blue sky with some clouds and power lines stretching across the horizon. The ground is a dry, brown field.

**Lighting up lives.  
Supporting a billion  
possibilities.**

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## I-BEAM

Size Description	Dimension (h)x(b)x(tw) mm	Section Weight (w) (Kg/Mtrs)	Section Area (a) (cm <sup>2</sup> )	Moment of Inertia (cm <sup>4</sup> )		Moment of Section (cm <sup>3</sup> )		Moment of Section (cm)	
				I <sub>xx</sub>	I <sub>yy</sub>	Z <sub>xx</sub>	Z <sub>yy</sub>	r <sub>xx</sub>	r <sub>yy</sub>
MB100	100x50x4.7	8.9	11.4	183	12.9	36.6	5.16	4	1.05
MB125	125x70x5	13.3	17.0	445	38.5	5.16	1.51	71.2	11.0
MB150	150x75x5	15	19.1	718	46.8	95.7	12	6.13	1.57
MB200	200x100x5.7	24.2	30.8	2120	137	212	27.4	8.29	2.11
MB250	250x125x6.9	37.3	47.5	5130	335	410	53.5	10.4	2.65
MB300	300x140x7.7	46	58.6	8990	486	599	69.5	12.4	2.86

## H-BEAM (RSJ POLES)

Size Description	Dimension (h)x(b)x(tw) mm	Section Weight (w) (Kg/Mtrs)	Section Area (a) (cm <sup>2</sup> )	Moment of Inertia (cm <sup>4</sup> )		Moment of Section (cm <sup>3</sup> )	
				I <sub>xx</sub>	I <sub>yy</sub>	Z <sub>xx</sub>	Z <sub>yy</sub>
RSJ 116	116x100x8.5	23	29.3	643.8	143.5	111	28.7
RSJ 152	152x152x7.9	37.1	47.4	1970	700	259	91.9



# QUALITY ASSURANCE

The structural steel manufactured goes through a comprehensive quality management system, conforming to ISO 9001:2015 standards. Every product manufactured at the state-of-the-art facility is environmentally safe and complies with 14001:2015 environment management norms.



## CERTIFICATIONS AND ACCREDITATIONS





**Shaping tomorrow.  
Supporting a billion  
futures.**



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