



KAMDHENU ISPAT LIMITED

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Desh Ki Shaan

STRUCTURAL STEEL



Kamdhenu Structural Products

1. ANGLES

2. CHANNELS

3. BEAMS

4. FLATS

Advantage of Kamdhenu Structural Products

High Strength and High Ductility :

This combination results in added safety of structure.

Superior Bendability, Weldability and Straightness :

The superior bendability, Weldability & Straightness of Kamdhenu structural product compared to others, the Kamdhenu structural product is easy to fabricate with.

Economics in Application :

Steel saving due to lower sectional weight and higher strength technique,
Adopted by Kamdhenu Engineers.

PROPERTIES

(1) CHEMICAL COMPOSITION

Kamdhenu structural products are produced in E250 (Fe 410W) A grade as per IS 2062 : 2006. However, carbon & Manganese levels are restricted to much lower than the specification, which results in excellent ductility, high bendability and superior weldability.

Chemistry	Unit	IS 2062, E250 (Fe 410W) A	Kamdhenu
Carbon	%	0.23 Max	0.22 Max
Manganese	%	1.50 Max	1.00 Max
Sulphur	%	0.045 Max	0.045 Max
Phosphorus	%	0.045 Max	0.045 Max
Silicon	%	0.40 Max	0.35 Max
Carbon Equivalent	%	0.42 Max	0.40 Max

(2) MECHANICAL PROPERTIES

Because of their unique method of manufacturer, Kamdhenu structural products possess a combination of strength and ductility that is far in excess of minimum limits specified in the standard.

Mechanical Properties	Unit	Dia/Thickness (mm)	IS 2062,	KAMDHENU
			E250 (Fe 410W) A	
Yield Stress	N/mm ²	<20	250 min	270 min
		20-40	240 min	260 min
		>40	230 min	250 min
Tensile Strength	N/mm ²		410 min	440 min
Elongation	%		23 min	24 min

(3) DIMENSIONAL TOLERANCES

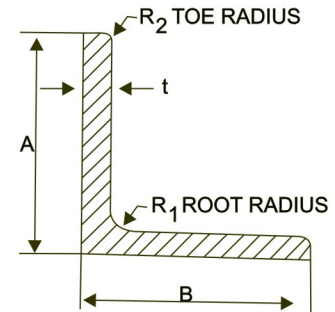
Kamdhenu structural product is supplied with section Weight & dimension lower than the nominal, Section Weight lower than the nominal up to 3 % .

EQUAL LEG ANGLES

Designation	Mass (kg/m)	Dimension (mm)			R2
		AXB	t	R1	
∟ 35X35X4	2.1	35X35	4.0	5.0	Should be Reasonably Square
∟ 35X35X5	2.6	35X35	5.0	5.0	
∟ 35X35X6	3.0	35X35	6.0	5.0	
∟ 40X40X4	2.4	40X40	4.0	5.5	
∟ 40X40X5	3.0	40X40	5.0	5.5	
∟ 40X40X6	3.5	40X40	6.0	5.5	
∟ 45X45X4	2.7	45X45	4.0	5.5	
∟ 45X45X5	3.4	45X45	5.0	5.5	
∟ 45X45X6	4.0	45X45	6.0	5.5	
∟ 50X50X4	3.0	50X50	4.0	6.0	
∟ 50X50X5	3.8	50X50	5.0	6.0	
∟ 50X50X6	4.5	50X50	6.0	6.0	
∟ 55X55X5	4.1	55X55	5.0	6.5	
∟ 55X55X6	4.9	55X55	6.0	6.5	
∟ 55X55X8	6.4	55X55	8.0	6.5	
∟ 55X55X10	7.9	55X55	10.0	6.5	
∟ 60X60X5	4.5	60X60	5.0	6.5	
∟ 60X60X6	5.4	60X60	6.0	6.5	
∟ 60X60X8	7.0	60X60	8.0	6.5	
∟ 60X60X10	8.6	60X60	10.0	6.5	
∟ 65X65X5	4.9	65X65	5.0	6.5	
∟ 65X65X6	5.8	65X65	6.0	6.5	
∟ 65X65X8	7.7	65X65	8.0	6.5	
∟ 65X65X10	9.4	65X65	10.0	6.5	
∟ 70X70X5	5.3	70X70	5.0	7.0	
∟ 70X70X6	6.3	70X70	6.0	7.0	
∟ 70X70X8	8.3	70X70	8.0	7.0	
∟ 70X70X10	10.2	70X70	10.0	7.0	
∟ 75X75X5	5.7	75X75	5.0	7.0	
∟ 75X75X6	6.8	75X75	6.0	7.0	
∟ 75X75X8	8.9	75X75	8.0	7.0	
∟ 75X75X10	11.0	75X75	10.0	7.0	
∟ 90X90X6	8.2	90X90	6.0	8.5	
∟ 90X90X8	10.8	90X90	8.0	8.5	
∟ 90X90X10	13.4	90X90	10.0	8.5	
∟ 90X90X12	15.8	90X90	12.0	8.5	
∟ 100X100X6	9.2	100X100	6.0	8.5	
∟ 100X100X8	12.1	100X100	8.0	8.5	
∟ 100X100X10	14.9	100X100	10.0	8.5	
∟ 100X100X12	17.7	100X100	12.0	8.5	

Angles... The promise of reliability

Kamdhenu Ispat Ltd. is Manufacturing all high Quality angles with the finest raw materials usage.



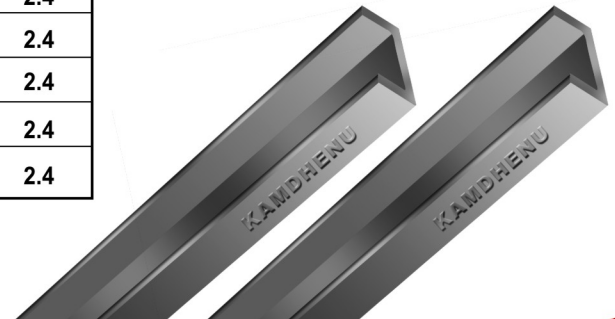
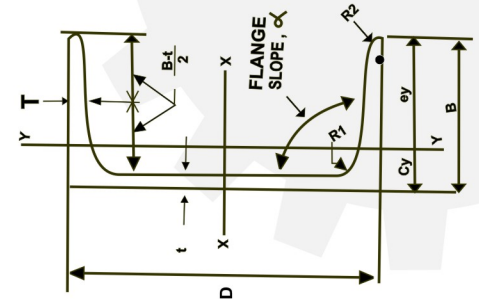
CHANNEL SECTION

CHANNEL...

The assurance of trust

Channels Are The Most Widely Used Structural Steel In any Construction Activity. Channels Form the Basis Every Structural Development.

Designation	Mass	Dimension (mm)						
	(kg/m)	D	B	t	T	α , deg	R1	R2
JC 100	5.8	100	45	3.0	5.1	91.5	6.0	2.0
JC 125	7.9	125	50	3.0	6.6	91.5	6.0	2.4
JC150	9.9	150	55	3.6	6.9	91.5	7.0	2.4
LC 75	5.7	75	40	3.7	6.0	91.5	6.0	2.0
LC100	7.9	100	50	4.0	6.4	91.5	6.0	2.0
LC125	10.7	125	65	4.4	6.6	91.5	7.0	2.4
LC150	14.4	150	75	4.8	7.8	91.5	8.0	2.4
MC 75	7.14	75	40	4.8	7.5	96.0	8.5	2.4
MC 100	9.56	100	50	5.0	7.7	96.0	9.0	2.4
MC 125	13.1	125	65	5.3	8.2	96.0	9.5	2.4
MC150	16.8	150	75	5.7	9.0	96.0	10.0	2.4



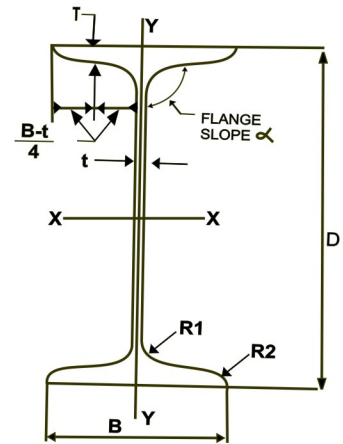
BEAM SECTIONS

BEAMS...

The Advantage Dependability

Beams form an essential part of every high end establishment. it is the primary structure used in various set ups. Kamdhenu Beams are perfectly elongated and they undergo various strength determination tests.

DESIGNATION	Mass (kg/m)	Dimensions (mm)						
		D	B	t	T	α , deg Max.	R1	R2
JB 150	7.1	150	50	3.0	4.6	91.5	5.0	1.5
LB 75	6.1	75	50	3.7	5.0	91.5	6.5	2.0
LB 100	8.0	100	50	4.0	6.4	91.5	7.0	3.0
LB 125	11.9	125	75	4.4	6.5	91.5	8.0	3.0
LB 150	14.2	150	80	4.8	6.8	91.5	9.5	3.0
MB 100	8.9	100	50	4.7	7.0	98.0	9.0	4.5
MB 125	13.3	125	70	5.0	8.0	98.0	9.0	4.5
MB 150	15.0	150	75	5.0	8.0	98.0	9.0	4.5



FLAT

WIDTH MASS, kg/m FOR VARYING (mm) THICKNESS										
(mm)	3	4	5	6	8	10	12	15	20	25
10	0.236	0.314	0.393	0.471	-	-	-	-	-	-
16	0.377	0.502	0.628	0.754	1.000	1.100	1.510	-	-	-
20	0.471	0.628	0.785	0.942	1.260	1.570	1.880	2.300	-	-
25	0.589	0.785	0.981	1.180	1.570	1.960	2.360	2.940	-	-
30	0.707	0.942	1.180	1.410	1.880	2.360	2.830	3.530	4.710	-
35	0.824	1.100	1.370	1.650	2.200	2.750	3.300	4.120	5.500	-
40	0.942	1.260	1.570	1.880	2.510	3.140	3.770	4.710	6.280	7.850
45	1.060	1.410	1.770	2.120	2.830	3.530	4.240	5.300	7.070	8.830
50	1.180	1.570	1.960	2.360	3.140	3.930	4.710	5.890	7.850	9.810
60	1.410	1.880	2.360	2.830	3.770	4.710	5.650	7.070	9.420	11.800
65	-	2.040	2.550	3.060	4.080	5.100	6.120	7.650	10.200	12.800
70	-	2.200	2.750	3.300	4.400	5.500	6.590	8.240	11.000	13.700
75	-	2.360	2.940	3.530	4.710	5.890	7.070	8.830	11.800	14.700
80	-	2.510	3.140	3.770	5.020	6.280	7.540	9.420	12.600	15.700
90	-	-	3.530	4.240	5.650	7.070	8.480	10.600	14.100	17.700
100	-	-	3.930	4.710	6.280	7.850	9.420	11.800	15.700	19.600
120	-	-	-	5.650	7.540	9.420	11.300	14.100	18.800	23.600
130	-	-	-	6.120	8.160	10.200	12.200	15.300	20.400	25.600
140	-	-	-	6.590	8.790	11.000	13.200	16.500	22.000	27.500
150	-	-	-	7.070	9.420	11.800	14.100	17.700	23.600	29.400