



 **MAHABIR**
ISO 9001 & 14001 certified company
INDIA • SOUTH AFRICA • UAE • ANGOLA

Structural
Steel Solutions

About Us

We are a diversified manufacturing and trading group in eastern India.

We manufacture transmission line towers, railway electrification towers, hand pumps, Poles, PSCC inter locking concrete cement tiles and paraffin wax. We are also involved in the diversified trade in a range of goods and commodities including large Industrial supplies.

We are an ISO certified company, have licenses from the Office of Indian standards, UNICEF and the Standards Organization of Nigeria.

Our galvanizing plant among the largest in the country which is equipped with a bath ten meters long. There is a house in the state of the art laboratory where different tests can be carried out by established standards. Our products have been inspected by many renowned inspection agencies like Crown, SGS, rituals, Bureau of South African standards, etc.

The company has manufactured and AAC ACSR (aluminum conductors) which, if put into straight lines can transmit electricity from the north pole to the south pole three parallel transmission lines. The company has traded with almost all Indian State Electricity Boards, the power grid, Indian Railways, coal mines and many electric utilities.

We HAD-have experience of Calcined Petroleum Coke manufacturing , qui est is used for aluminum smelters as anodes, the shares of qui-have-been Transferred in a family arrangement partition in 2006.

A Minority Stake Held is being white in a jute manufacturing Facility at Sajanwa, qui est six generation family run company.

Our websites are manufacturing site location is about 120 Kims from Patna (the capital city) and about 550 Kms from Haldia (the to closest sea port). The Chief Minister of Bihar, Nitish Kumar Mr HAS humbled us with an award for HAVING contributed to the industrial development of the state of Bihar.

We are now looking at Expanding overseas operations and forming joint ventures with companies in similar businesses Involved as bears. It would combines the benefits of a family run business and unite it with the Effectiveness of an international group.

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For non-standard sizes and steel specifications not included in this data sheet,
please contact us for further enquiries.

Our structural steel sections are typically produced to the IS 2062; SN50025
EN-10025, Grades S235, S275, S355, and S460; BS-4360 Grades 40A, 43A,
43B, 43C, 50B, 50C; DIN-17100 ST 37.2/44.2; ASTM-A36, A572, A992; JIS-G-
3101-SS400, if sufficient orders are available. Lengths from 6m,9m,11m,13m.

UNIVERSAL BEAMS

Dimensions	kg/m	H	W	Tw	Tf
203 x 133	25.1	203.2	133.4	5.8	7.8
203 x 133	30	206.8	133.8	6.3	9.6
254 x 146	31.1	251.5	146.1	6.1	8.6
254 x 146	37	256	146.4	6.4	10.9
254 x 146	43	259.6	147.3	7.3	12.7
305 x 102	24.8	304.8	101.6	5.8	6.8
305 x 102	28.2	308.9	101.9	6.1	8.9
305 x 102	32.8	312.7	102.4	6.6	10.8
305 x 165	40.3	303.8	165.1	6.1	10.2
305 x 165	46.1	307.1	165.7	6.7	11.8
305 x 165	54	310.9	166.8	7.7	13.7
356 x 171	45	352	171	6.9	9.7
356 x 171	51	355.6	171.5	7.3	11.5
356 x 171	57	358.6	172.1	8	13
356 x 171	67.1	364	173.2	9.1	15.7
406 x 140	39	397.3	141.8	6.3	8.6
406 x 140	46	402.3	142.4	6.9	11.2
406 x 178	54.1	402.6	177.6	7.6	10.9
406 x 178	60.1	406.4	177.8	7.8	12.8
406 x 178	67.1	409.4	178.8	8.8	14.3
406 x 178	74.2	412.8	179.7	9.7	16
457 x 191	67.1	453.6	189.9	8.5	12.7
457 x 191	74.3	457.2	190.5	9.1	14.5
457 x 191	82	460.2	191.3	9.9	16
457 x 191	89.3	463.6	192	10.6	17.7
457 x 191	98.3	467.6	192.8	11.4	19.6
533 x 210	82.2	528.3	208.7	9.6	13.2
533 x 210	92.1	522.1	209.3	10.2	15.6
533 x 210	101	536.7	210.1	10.9	17.4
533 x 210	109	539.5	210.7	11.6	18.8
533 x 210	122	544.6	211.9	12.8	21.3





UNIVERSAL COLUMNS

Dimensions	kg/m	H	W	Tw	Tf
152 x 152	23	152.4	152.4	6.1	6.8
152 x 152	30	157.4	152.9	6.6	9.4
152 x 152	37	161.8	154.4	8.1	11.5
203 x 203	46.1	203.2	203.2	7.3	11
203 x 203	52	206.2	203.9	8	12.5
203 x 203	60	209.6	205.2	9.3	14.2
203 x 203	71	215.9	206.2	10.3	17.3
203 x 203	86.1	222.3	208.8	13	20.5
254 x 254	73.1	254.2	254	8.6	14.2
254 x 254	88.9	260.4	255.9	10.5	17.3
254 x 254	107.1	266	258	13	20.5
254 x 254	132	276.4	261	15.6	25.1
254 x 254	167	289.1	264.5	19.2	31.7
305 x 305	96.9	307.8	304.8	9.9	15.4
305 x 305	117.9	314.5	306.8	11.9	18.7
305 x 305	136.9	320.5	308.7	13.8	21.7
305 x 305	158.1	327.2	310.6	15.7	25
305 x 305	198.1	339.9	314.5	19.1	31.4

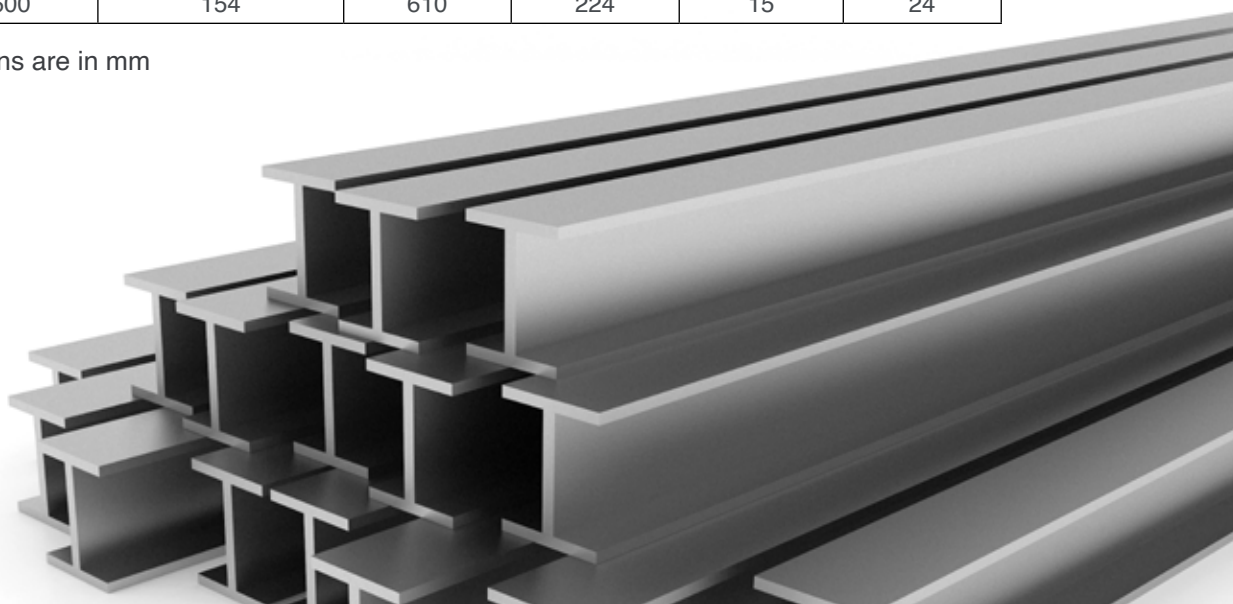


All dimensions are in mm

IPE SECTIONS

Dimensions	Sectional Weight	H	W	Tw	Tf
IPE 160	12.7	157	82	4.0	5.9
IPE 160	15.77	160	82	5.0	7.4
IPE 180	18.8	180	91	5.3	8.0
IPE 200	18	196	100	5	7
IPE 200	22.4	200	100	5.6	8.5
IPE 360	57.1	360	170	8	12.7
IPE 400	66.3	400	180	8.6	13.5
IPE 450	77.6	450	190	9.4	14.6
IPE 500	90.7	500	200	10.2	16
IPE 600	122	600	220	12	19
IPE 750	134	750	264	12	15.5
IPE 750	147	750	265	13.2	17
IPE 750	173	750	267	14.4	21.6
IPE 750	196	750	268	15.6	25.4
IPE A 180	15	177	91	4	7
IPE A 200	18	197	100	5	7
IPE A 360	50.2	357.6	170	6.6	11.5
IPE A 400	57.4	397	180	7	12
IPE A 450	67.2	447	190	7.6	13.1
IPE A 500	79.4	497	200	8.4	14.5
IPE A 600	107.4	597	220	9.8	17.5
IPE O 180	15	182	92	6	9
IPE O 200	25	202	102	6	10
IPE O 360	66	364	172	9.2	14.7
IPE O 400	75.7	404	182	9.7	15.5
IPE O 450	92.4	456	192	11	17.6
IPE O 500	1.7	506	202	12	19
IPE O 600	154	610	224	15	24

All dimensions are in mm



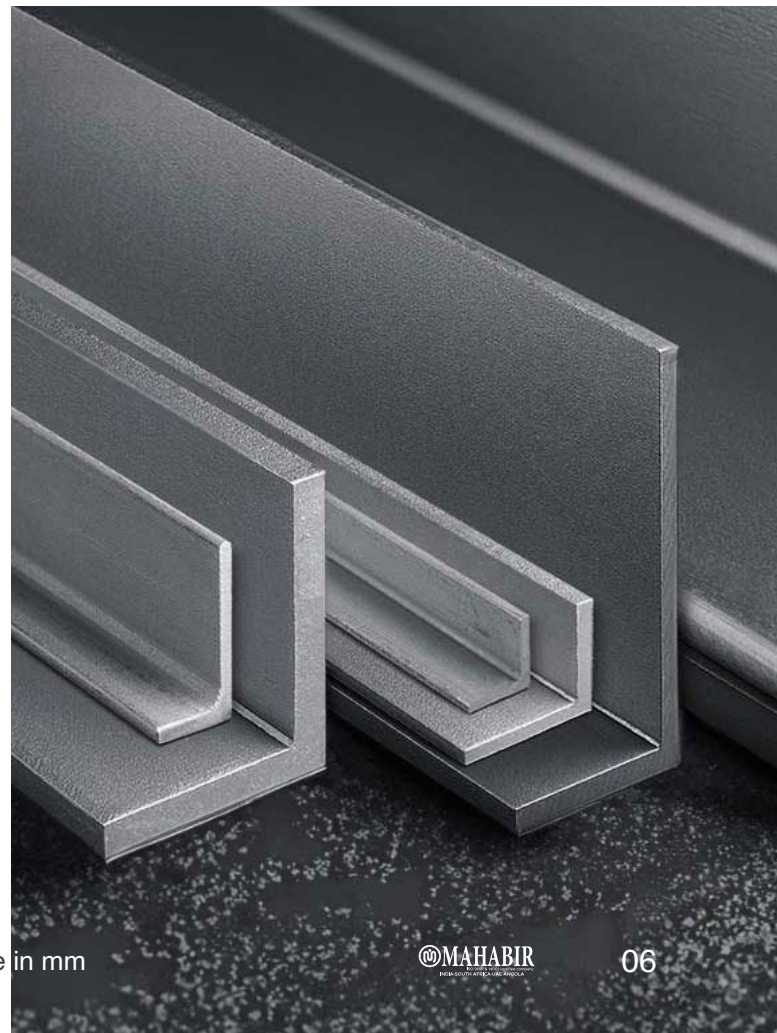
EQUAL ANGLES

Dimensions	2mm	2.5mm	3mm	4mm	5mm	6mm	8mm
25 x 25	0.7	0.9	1.1		1.7		
30 x 30	0.9	1.1	1.3		2.1		
40 x 40	1.2	1.5	1.8	2.4	2.9	3.5	
45 x 45			2.1	2.7	3.3	3.9	
50 x 50			2.3	3	3.7	4.4	5.8

Dimensions	4mm	5mm	6mm	8mm	10mm	12mm	15mm	16mm	18mm	20mm	24mm
60 x 60	3.6	4.5	5.4	7	8.6						
70 x 70			6.3	8.3	10.2						
80 x 80			7.3	9.6	11.8	14					
90 x 90			8.2	10.9	13.4	15.9					
100 x 100				12.1	15	17.8	21.9				
120 x 120				14.7	18.1	21.6	26.6				
150 x 150					22.9	27.3	33.7		40		
200 x 200								48.5	54.2	59.9	71.1

UNEQUAL ANGLE

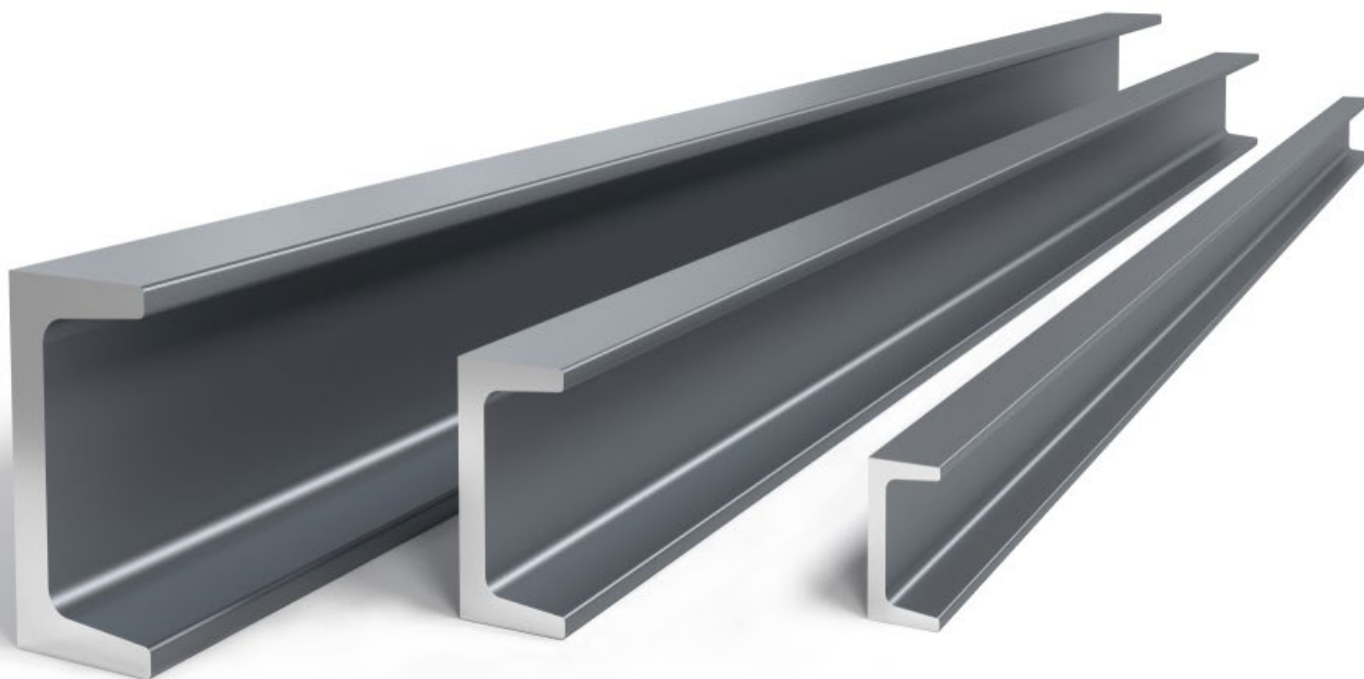
Dimensions	6mm	8mm	10mm	12mm	15mm
65 x 50	5.1	6.7			
75 x 50	5.6	7.3			
80 x 60	6.3	8.3			
90 x 65	7	9.2	11.4		
100 x 65		9.9	12.3		
100 x 75	8	10.5	13.3	15.4	
125 x 75		12.1	15	17.8	
150 x 75			16.9	20.1	24.8
150 x 90			18.1	21.5	26.6



All dimensions are in mm

CHANNELS PARALLEL FLANGE

Dimensions	kg/m	H	W	Tw	Tf
100 x 50	10.1	100	50	5	8.4
180 x 70	21.1	180	70	7	10.9
200 x 75	24.3	200	75	7.5	11.4
230 x 90	32.2	230	90	7.5	14
260 x 90	34.8	260	90	8	14
300 x 100	45.4	300	100	9	16.5



CHANNELS TAPER FLANGE

Dimensions	kg/m	H	W	Tw	Tf
57 x 51*	6.8	57.2	50.8	6.1	6.1
76 x 38	6.7	76.2	38.1	5.1	6.8
100 x 50	10.7	100	50	6	8.5
120 x 55	13.5	120	55	7	9
127 x 64	14.9	127	63.5	6.4	9.2
140 x 60	16.2	140	60	7	10
152 x 76	17.9	152.4	76.2	6.4	9
160 x 65	19.1	160	65	7.5	10.5
178 x 54	14.5	177.8	54	5.8	8,4
180 x 70	22.2	180	70	8	11
200 x 75	25.4	200	75	8.5	11.5

PLATES

Dimensions	5mm	6mm	8mm	10mm	12mm	14mm	16mm	18mm	20mm	22mm	25mm	28mm
2500 x 1200	117.7	141.3	188.4	235.5	282.6		376.8		471		588.7	
3000 x 1500	176.6	211.9	282.6	353.2	423.9		565.2		706.5	777.1	883.1	
4000 x 1825	286.5	343.8	458.4	573	687.6							
4000 x 2000	314	376.8	502.4	628	753.6		1004.8		1256	1381.6	1570	1758.4
8000 x 2000	628	753.6	1004.8	1256	1507.2	1758.4	2009.6	2260.8	2512	2763.2	3140	
10000 x 2400	942	1130.4	1507.2	1884	2260.8	2637.6	3014.4	3391.2	3768	4144.8	4710	5275.2
13000 x 2400	1224	1469.5	1959.3	2449.2	2939	3428.8	3918.7	4408.5	4898.4	5388.2	6123	6857.7
Dimensions	30mm	32mm	35mm	38mm	40mm	45mm	50mm	55mm	60mm	65mm	70mm	75mm
2500 x 1200	706.5	735.6	824.2	894.9	942	1059.750*	1177.5	1295.2	1413	1530.7	1648.5	1766.2
3000 x 1500	1059.7	1130.4	1236.3	1342.3	1413	1589.625	1766.2	1942.8	2119.5	2296.1	2472.7	2649.3
4000 x 2000	3768	2009.6	2198	2386.4	2512	2826.000*	3140	3454	3768	4082	4396	4710
6000 x 2400					4521.6		5652					
10000 x 2400	5652	6028.8			7536							
13000 x 2400	7347.6	7837.4										
Dimensions	80mm	85mm	90mm	100mm	110mm	115mm	120mm	125mm	130mm	140mm	150mm	
2500 x 1200	1884	2001.7	2119.5	2355.500	2590.500	2708.250	2826.000	2943.750	3061.500	3297.000	3532.500*	
3000 x 1500	2826	3002.6	3179.2	3532.500	3885.750	4062.375	4239.000	4415.625	4592.250	4945.500	5298.750	
4000 x 2000	5024	5338	5652	6280.000	6908.000							

All dimensions are in mm

FLAT BARS

Dimensions	3mm	4mm	5mm	6mm	8mm	10mm	12mm	16mm	20mm	25mm	30mm	40mm
20	0.4		0.7	0.9	1.2	1.5						
25	0.5	0.8	0.9	1.1	1.5	1.9	2.3					
30	0.7	1	1.1	1.4	1.8	2.3	2.8					
40	0.9	1.4	1.5	1.8	2.5	3.1	3.7	5	6.2	7.8		
45			1.7	2.1			4.2					
47.6			1.8									
50			1.9	2.3	3.1	3.9	4.7	6.2	7.8	9.8		
60				2.8	3.7	4.7	5.6	7.5	9.4	11.7		
65				3	4	5.1	6.1	8.1	10.2	12.7		
70				3.2	4.3	5.4	6.5	8.7	10.9	13.7		
80				3.7	5	6.2	7.5	10	12.5	15.7	18.8	25.1
90				4.2	5.6	7	8.4	11.3	14.1	17.6		
100				4.7	6.2	7.8	9.4	12.5	15.7	19.6	23.5	31.4
110				5.1	6.9	8.6	10.3					
130					8.1	10.2	12.2	16.3	20.4	25.5	31.6	
150					9.4	11.7	14.1	18.8	23.5	29.4	35.3	47.1
180						14.1	16.9	22.6	28.2	35.3	42.3	56.5
200						15.7	18.8	25.1	31.4	39.2	47.1	62.8
250								31.4	38.2	49	58.8	78.5



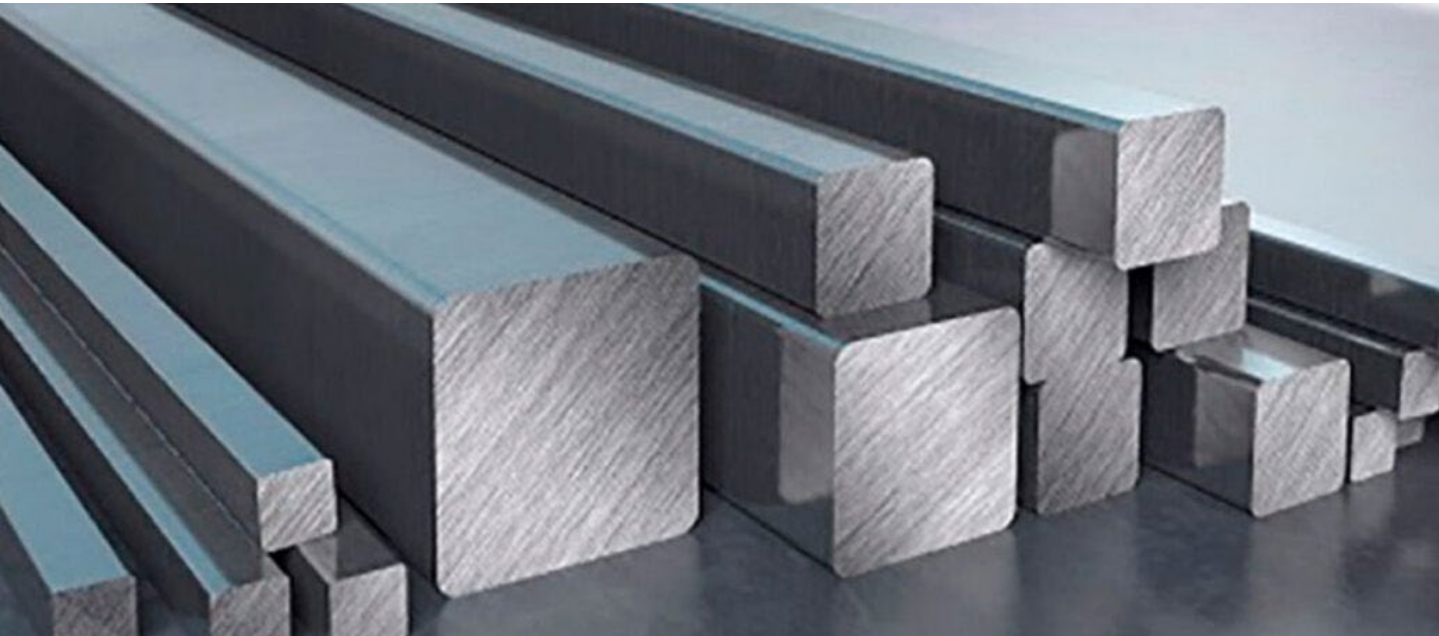
ROUND BAR

Dimensions	6mm	8mm	10mm	12mm	16mm	20mm	22mm	24mm	25mm	30mm	32mm	35mm
	0.222	0.395	0.617	0.888	1.578	2.466	2.984	3.551	3.853	5.549	6.313	7.553
Dimensions	38mm	40mm	45mm	50mm	55mm	60mm	65mm	70mm	80mm	90mm	103mm	
	8.903	9.865	12.485	15.413	18.650	26.049	1.578	30.210	39.458	49.940	65.408	



SQUARE BAR

Dimensions	8mm	10mm	12mm	16mm	20mm	25mm	30mm	40mm	50mm	60mm	70mm	
	0.502	0.785	1.130	2.010	3.140	4.910	7.070	12.600	19.600	28.300	38.500	



HOT - FINISHED CIRCULAR HOLLOW SECTION

Dimensions	1.6mm	2mm	2.5mm	3mm	3.5mm	4mm	4.5mm	5mm	6mm	8mm	10mm
15.8	0.560	0.681									
19.0	0.687	0.838									
21.3	0.777	0.952	1.159								
25.4	0.939	1.154	1.412								
26.9	0.998	1.228	1.504	1.768							
31.7	1.188	1.465	1.800	2.123							
34.0	1.278	1.578	1.942	2.294	2.633	2.959					
38.1	1.440	1.781	2.195	2.597	2.987	3.364					
42.8	1.626	2.012	2.485	2.945	3.392	3.827					
48.4	1.847	2.289	2.830	3.359	3.876	4.380	4.872				
50.8	1.941	2.407	2.978	3.536	4.083	4.617	5.138				
57.1	2.190	2.718	3.366	4.003	4.626	5.238	5.837				
60.3	2.316	2.876	3.564	4.239	4.903	5.554	6.193				
63.5	2.442	3.033	3.761	4.476	5.179	5.869	6.548				
76.2	2.944	3.660	4.544	5.416	6.275	7.122	7.957	8.779	10.387		
88.9		4.286	5.327	6.355	7.371	8.375	9.366	10.346	12.267		
101.6		4.913	6.110	7.295	8.468	9.628	10.776	11.912	14.146		
114.3		5.539	6.893	8.234	9.564	10.881	12.185	13.478	16.025		
127.0		6.165	7.676	9.174	10.660	12.133	13.595	15.044	17.904		
139.7				10.114	11.756	13.386	15.004	16.610	19.783		
152.4				11.053	12.852	14.639	16.413	18.176	21.663		
165.1				11.993	13.949	15.892	17.823	19.742	23.542		
177.8				12.932	15.045	17.145	19.232	21.308	25.421		
193.7				14.109	16.417	18.713	20.997	23.268	27.774		
219.1				15.988	18.610	21.219	23.816	26.400	31.532	41.648	51.567
273.1							29.808	33.059	39.523	52.302	64.884
323.9							35.446	39.323	47.039	62.325	77.412
355.6							38.964	43.232	51.730	68.579	85.230

HOT - FINISHED SQUARE HOLLOW SECTION

Dimensions	1.6mm	2mm	2.5mm	3mm	3.5mm	4mm	4.5mm	5mm	6mm	8mm	100mm
12.7 x 12.7	0.575										
15.8 x 15.8	0.731	0.894									
19.0 x 19.0	0.889	1.092									
25.0 x 25.0	1.200	1.480	1.819	2.146							
32.0 x 32.0	1.529	1.892	2.334	2.764							
38.0 x 38.0	1.847	2.289	2.830	3.359	3.876	4.380					
40.0 x 40.0	1.943	2.408	2.980	3.539	4.085	4.620					
50.0 x 50.0	2.442	3.033	3.761	4.476	5.179	5.869	6.548				
60.0 x 60.0	2.944	3.660	4.544	5.416	6.275	7.122	7.957	8.779	10.387		
63.0 x 63.0	3.094	3.847	4.778	5.697	6.603	7.497	8.379				
75.0 x 75.0	3.685	4.587	5.703	6.807	7.898	8.977	10.043	11.098	13.169		
100.0 x 100.0		6.165	7.676	9.174	10.660	12.133	13.595	15.044	17.904		
120.0 x 120.0				11.053	12.852	14.639	16.413	18.176	21.663		
150.0 x 150.0				13.835	16.098	18.348	20.586	22.812	27.226	35.907	44.391
175.0 x 175.0					18.610	21.219	23.816		31.532	41.648	51.567
200.0 x 200.0							27.215		35.822	46.505	56.965
220.0 x 220.0									39.523	52.302	64.884
250.0 x 250.0									45.242	59.065	72.665
285.0 x 285.0									51.730	68.579	85.230



All dimensions are in mm

HOT- FINISHED RECTANGULAR HOLLOW SECTION

Dimensions	1.6mm	2mm	2.5mm	3mm	3.5mm	4mm	4.5mm	5mm	6mm	8mm	10mm
25.0 x 12.0	0.894	1.097									
31.0 x 19.0	1.200	1.480									
38.0 x 19.0	1.365	1.687									
38.0 x 25.0	1.515	1.874	2.312	2.737							
50.0 x 25.0	1.847	2.289	2.830	3.359	3.876	4.391	4.872				
50.0 x 38.0	2.190	2.718	3.366	4.003							
60.0 x 40.0	2.442	3.033	3.761	4.476	5.179	5.869	6.548				
63.0 x 38.0	2.466	3.063	3.798	4.520	5.231	5.929	6.614				
75.0 x 25.0	2.442	3.033	3.761	4.476	5.179	5.869					
76.0 x 38.0	2.817	3.502	4.347	5.179	5.999	6.807	7.602				
76.0 x 50.0	3.094	3.847	4.778	5.697	6.603	7.497	8.379				
100.0 x 50.0		4.587	5.703	6.807	7.898	8.977	10.043	11.098	13.169		
120.0 x 60.0		5.539	6.893	8.234	9.564	10.881	12.185	13.478	16.025		
120.0 x 80.0		6.165	7.676	9.174	10.660	12.133	13.595	15.044	17.904		
127.0 x 76.0		6.264	7.799	9.322	10.833	12.331	13.817	15.290	18.200		
150.0 x 50.0			7.676	9.174	10.660	12.133	13.595	15.044	17.904		
150.0 x 100.0				11.542	13.422	15.290	17.146	18.989	22.639		
160.0 x 80.0				11.053	12.852	14.639	16.413	18.176	21.663		
200.0 x 100.0				13.872	16.141	18.397	20.642	22.874	27.300	36.006	44.514
200.0 x 150.0							23.816	26.400	31.532	41.648	51.567
250.0 x 100.0							23.816	26.400	31.532	41.648	51.567
250.0 x 150.0									35.822	46.505	56.965
300.0 x 140.0									39.523	52.302	64.884
320.0 x 200.0									47.039	62.325	77.412



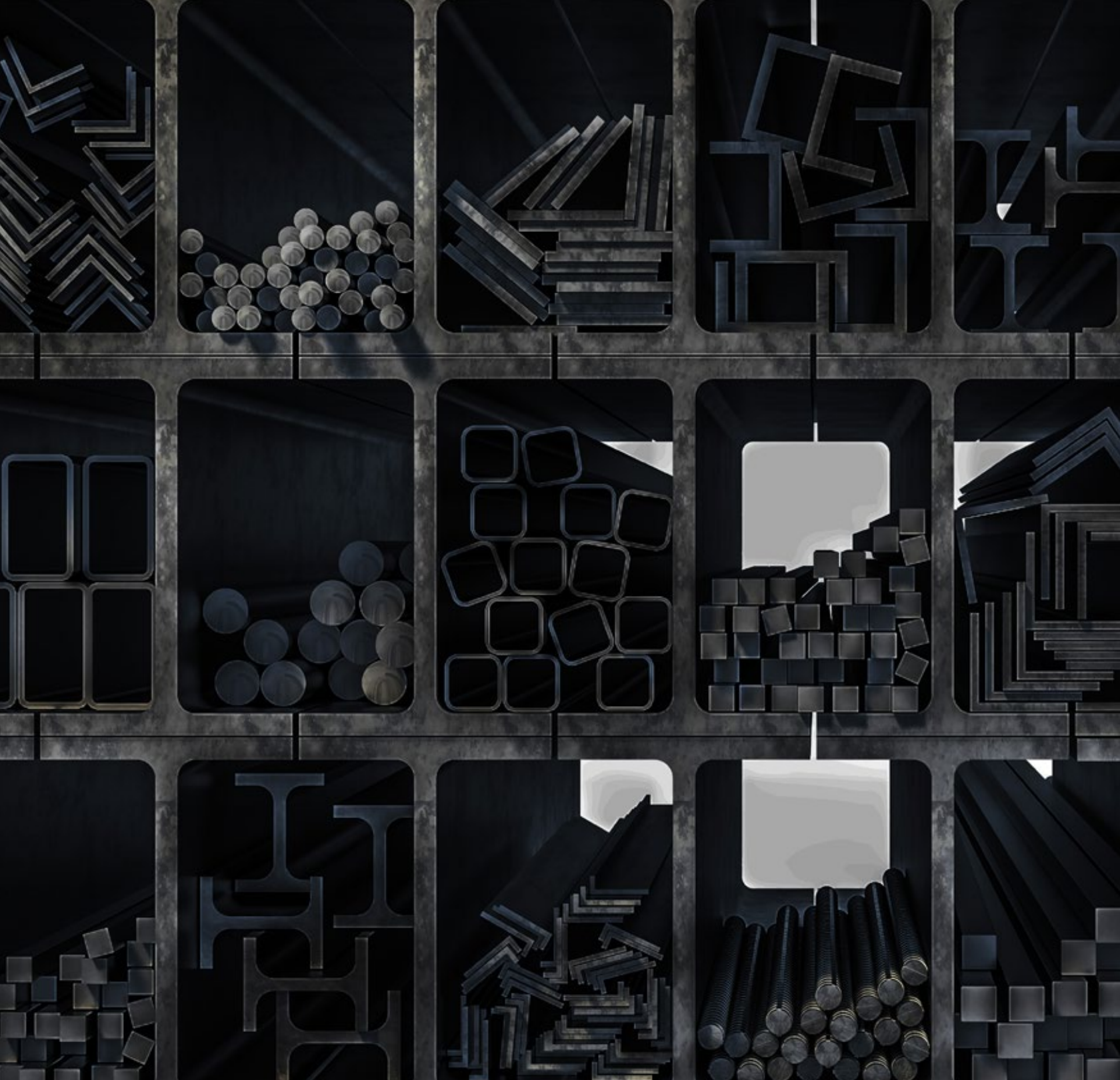
COLD FORMED SECTIONS (LIPPEND CHANNELS & ANGLES)

Lipped Channel			
Dimensions	2mm	2.5mm	3mm
75 x 50 x 20	3.210	3.830	4.500
100 x 50 x 20	3.520	4.320	5.090
100 x 75 x 20	4.300	5.300	6.260
125 x 50 x 20	3.910	4.810	5.680
125 x 65 x 20	4.350	5.360	6.330
125 x 75 x 20	4.690	5.790	6.850
150 x 50 x 20	4.300	5.300	6.260
150 x 65 x 20	4.740	5.850	6.920
150 x 75 x 20	5.090	6.280	7.440
175 x 50 x 20	4.690	5.790	6.850
175 x 65 x 20	5.130	6.340	7.510
175 x 75 x 20	5.480	6.770	8.030
200 x 50 x 20	5.090	6.280	7.440
200 x 65 x 20*	5.530	6.830	8.100
200 x 75 x 60	5.870	7.260	8.620
225 x 50 x 20	5.480	6.770	8.030
225 x 65 x 20*	5.920	7.320	8.690
225 x 75 x 20	6.260	7.750	9.210*
250 x 50 x 20	5.870	7.260	8.620*
250 x 65 x 20*	6.310	7.810	9.280
250 x 75 x 20	6.660	8.240	9.800
300 x 50 x 20	6.660	8.240	9.800*
300 x 65 x 20*	7.130	8.830	10.500
300 x 75 x 20	7.440	9.220	10.970*

Lipped Angle			
Dimensions	2mm	2.5mm	3mm
75 x 50 x 20	2.400	2.940	3.460
100 x 75 x 20	3.190	3.930	4.640



All dimensions are in mm



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