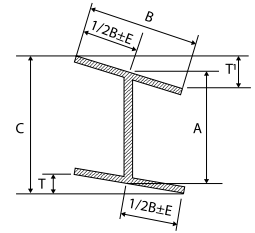




Mechanical Properties	
Yield Limit	25.3 kg/mm <sup>2</sup> min.
Tensile Strength	41-56 kg/mm <sup>2</sup>
Elongation in 8 in. [200 mm]	20.0% min.
Elongation in 2 in. [50 mm]	21.0% min.



H beam, obtained by hot rolling (LAC), is a common wide flange beam used in construction and machinery for its medium strength.  
 Presentation: Bars 6 meters long.  
 Specifications: ASTM A36, AISI A36  
 Dimensional Tolerances: ASTM A6

Permitted Variations in Sectional Dimensions Given, in.								Permitted Variations from Specified Length for Lengths Given in Feet, in.	
Section Nominal Sizes, in.	A, Depth		B, Flange Width		T+T Flanges Out of Square	E, Web off Center C	C, Maximum Depth at any Cross Section over Theoretical Depth, in.	Up to 30. incl	
	Over Theoretical	Under Theoretical	Over Theoretical	Under Theoretical				Over	Under
Up to 12, incl	1/8	1/8	1/4	3/16	1/4	3/16	1/4	3/8	3/8
Over 12	1/8	1/8	1/4	3/16	5/16	3/16	1/4		

Nominal Size in.		Theoretical Weight			Depth Thickness	Flange Thickness	Depth Size	Flange Size	
Depth	Flange	lb/ft	kg/m	kg/6m	mm	mm	mm	mm	
4"	4"	13.0	19.39	116.34	7.11	8.76	106	103	
6"	4"	9.0	13.42	80.52	4.32	5.46	150	100	
		12.0	17.90	107.4	5.84	7.11	153	102	
	6"	15.0	22.37	134.22	5.84	6.60	152	152	
		20.0	29.83	178.98	6.60	9.27	157	153	
		25.0	37.28	223.68	8.13	11.56	162	154	
8"	4"	10.0	14.91	89.46	4.32	5.21	200	100	
		13.0	19.39	116.34	5.84	8.38	203	102	
		15.0	22.37	134.22	6.22	8.00	206	102	
	5 1/4"	18.0	26.84	161.04	5.84	8.38	207	133	
		21.0	31.32	187.92	6.35	10.16	210	134	
	6 1/2"	24.0	35.79	214.74	6.22	10.16	201	165	
		28.0	41.76	250.56	7.24	11.81	205	166	
		31.0	46.23	277.38	7.24	11.05	203	203	
		8"	35.0	52.20	313.2	7.87	12.57	206	204
			40.0	59.65	357.9	9.14	14.22	210	205
10"	4"	48.0	71.58	429.48	10.16	17.40	216	206	
		15.0	22.37	134.22	5.84	6.86	254	102	
	5 3/4"	19.0	28.33	169.98	6.35	10.03	260	102	
		22.0	32.81	196.86	6.10	9.14	258	146	
		26.0	38.77	232.62	6.60	11.18	262	147	
	8"	30.0	44.74	268.44	7.62	12.95	266	148	
		33.0	49.21	295.26	7.37	11.05	247	202	
		39.0	58.16	348.96	8.00	13.46	252	203	
		45.0	67.11	402.66	8.89	15.75	257	204	
		49.0	73.07	438.42	8.64	14.22	253	254	
	10"	54.0	80.53	483.18	9.40	15.62	256	255	
		60.0	89.48	536.88	10.67	17.27	260	256	

\* Note : Dimensions, design and materials are subject to change without notice.

MAC - MMXXIV



Nominal Size in.		Theoretical Weight			Depth Thickness	Flange Thickness	Depth Size	Flange Size
Depth	Flange	lb/ft	kg/m	kg/6m	mm	mm	mm	mm
12"	4"	19.0	28.33	169.98	5.97	8.89	309	102
		22.0	32.81	196.86	6.60	10.80	313	102
	6 1/2"	26.0	38.77	232.62	5.84	9.65	310	165
		30.0	44.74	268.44	6.60	11.18	313	166
		35.0	52.20	313.2	7.62	13.21	317	167
	8"	40.0	59.65	357.9	7.49	13.08	303	203
		45.0	67.11	402.66	8.51	14.61	306	204
		50.0	74.56	447.36	9.40	16.26	310	205
	10"	53.0	79.04	474.24	8.76	14.61	306	254
		58.0	86.49	518.94	9.14	16.26	310	254
	12"	65.0	96.93	581.58	9.91	15.37	308	305
		72.0	107.37	644.22	10.92	17.02	311	306
79.0		117.81	706.86	11.94	18.67	314	307	
14"	5"	120.0	178.95	1073.7	18.00	28.10	333	313
		22.0	32.81	196.86	5.84	8.51	349	127
	6 3/4"	26.0	38.77	232.62	6.48	10.67	353	128
		30.0	44.74	268.44	6.86	9.76	352	171
		34.0	50.70	304.2	7.24	11.56	355	171
	8"	38.0	56.67	340.02	7.87	13.08	358	172
		43.0	64.13	384.78	7.75	13.46	348	203
		48.0	71.58	429.48	8.64	15.11	350	204
	10"	53.0	79.04	474.24	9.40	16.76	354	205
		61.0	90.97	545.82	9.53	16.38	353	254
	14 1/2"	68.0	101.41	608.46	10.54	18.29	357	255
		90.0	134.22	805.32	11.18	18.03	356	369
120.0		178.95	1073.7	15.00	23.90	368	373	
16"	5 1/2"	26.0	38.77	232.62	6.35	8.76	399	140
		46.23	46.23	277.38	6.98	11.18	403	140
	7"	36.0	53.69	322.14	7.49	10.92	403	177
		40.0	59.65	357.9	7.49	10.92	407	178
		45.0	67.11	402.66	8.76	14.35	410	179
	10 1/4"	57.0	85.00	510	10.92	18.16	417	181
18"	6"	67.0	99.92	599.52	10.03	16.89	415	260
		35.0	52.20	313.2	7.62	10.80	450	152
		40.0	59.65	357.9	8.00	13.34	455	153
	7 1/2"	46.0	68.60	411.6	9.14	15.37	459	154
		50.0	74.56	447.36	9.02	14.48	457	190
		55.0	82.02	492.12	9.91	16.00	460	191
	11"	65.0	96.93	581.58	11.43	19.05	466.1	192.8
		76.0	113.34	680.04	10.80	17.27	463	280
21"	6 1/2"	86.0	128.25	769.5	12.19	19.56	467	282
		44.0	65.62	393.72	8.89	11.43	525	165
		62.0	92.46	554.76	10.16	15.62	533	209
	8 1/4"	68.0	101.41	608.46	10.92	17.40	537	210
		73.0	108.86	653.16	11.56	18.80	539	211
		83.0	123.78	742.68	13.08	21.21	544	212
24"	7"	83.0	123.78	742.68	13.08	21.21	544	212
		55.0	82.02	492.12	10.03	12.83	599	178
	9"	68.0	101.41	608.46	10.54	14.86	603	228
		76.0	113.34	680.04	11.18	17.27	608	228
		84.0	125.27	751.62	11.94	19.56	612	229
		94.0	140.18	841.08	13.08	22.23	617	230
12 3/4"	104.00	155.09	930.54	12.70	19.00	611	324	

\* Note : Dimensions, design and materials are subject to change without notice.

