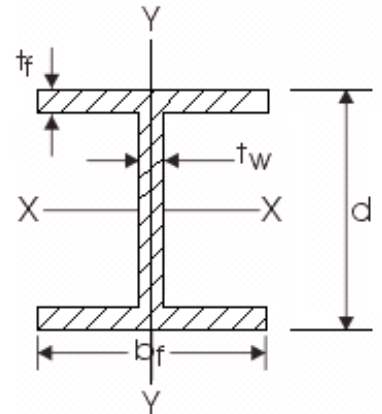


DESCRIPCIÓN: Producto que tiene una sección transversal en forma de H que se obtiene por Laminación de Tochos de Acero Estructural que son precalentados hasta una temperatura de 1250°C.

USOS: Estructuras metálicas, puentes, edificios, grúas.

Propiedades Mecánicas

NORMA TÉCNICA	Limite de Fluencia (F) Kg/mm ²	Resistencia a la Tracción (R) Kg/mm ²	Elongación (A)%
ASTM A-36	25.3 mínimo	41 mínimo	20 mínimo
ASTM A-572 GR 50	35.2 mínimo	46 mínimo	16 mínimo
ASTM A-992	35.2 mínimo	46 mínimo	18 mínimo



Dimensiones Estándar y características de la sección

DESIGNACIÓN pulg x lb / pie	AREA DE SECCIÓN A pulg. ²	ALTURA d pulg	ALA		ESPESOR ALMA tw pulg	PESO Kg/m	EJE X - X			EJE Y - Y		
			ANCHO bf pulg	ESPESOR tf pulg			l pulg.4	S pulg.3	r pulg.	l' pulg.4	S' pulg.3	r' pulg.
4 x 13	3.83	4.16	4.060	0.345	0.280	19.35	11.3	5.5	1.72	3.86	1.90	1.00
6 x 9	2.68	5.90	3.940	0.215	0.170	13.39	16.4	5.6	2.47	2.20	1.11	0.905
6 x 12	3.55	6.03	4.000	0.280	0.230	17.86	22.1	7.3	2.49	2.99	1.50	0.918
6 x 15	4.43	5.99	5.990	0.260	0.230	22.32	29.1	9.7	2.56	9.32	3.11	1.46
6 x 16	4.74	6.28	4.030	0.405	0.260	23.81	32.1	10.2	2.6	4.43	2.20	0.967
6 x 20	5.87	6.20	6.020	0.365	0.260	29.76	41.4	13.4	2.66	13.30	4.41	1.50
6 x 25	7.34	6.38	6.080	0.455	0.320	37.20	53.4	16.7	2.7	17.10	5.61	1.52
8 x 10	2.96	7.89	3.940	0.205	0.170	14.88	30.80	7.8	3.22	2.09	1.06	0.841
8 x 15	4.45	8.11	4.015	0.315	0.245	22.32	48.0	11.8	3.29	3.41	1.70	0.876
8 x 18	5.26	8.14	5.250	0.330	0.230	26.79	61.9	15.2	3.43	7.97	3.04	1.23
8 x 21	6.16	8.28	5.270	0.400	0.250	31.25	75.3	18.2	3.49	9.77	3.71	1.26
8 x 24	7.08	7.93	6.495	0.400	0.245	35.72	82.8	20.9	3.42	18.30	5.63	1.61
8 x 28	8.25	8.06	6.535	0.465	0.285	41.67	98.0	24.3	3.45	21.70	6.63	1.62
8 x 31	9.13	8.00	7.995	0.435	0.285	46.13	110.0	27.5	3.47	37.10	9.27	2.02
8 x 35	10.30	8.12	8.020	0.495	0.310	52.09	127.0	31.2	3.51	42.60	10.60	2.03
8 x 40	11.70	8.25	8.070	0.560	0.360	59.53	146.0	35.5	3.53	49.10	12.20	2.04
8 x 48	14.10	8.50	8.110	0.685	0.400	71.43	184.0	43.3	3.61	60.90	15.00	2.08
10 x 17	4.99	10.11	4.010	0.330	0.240	25.30	81.9	16.2	4.05	3.56	1.78	0.845
10 x 22	6.49	10.17	5.750	0.360	0.240	32.74	118.0	23.2	4.27	11.40	3.97	1.33
10 x 26	7.61	10.33	5.770	0.440	0.260	38.69	144.0	27.9	4.35	14.10	4.89	1.36
10 x 30	8.84	10.47	5.810	0.510	0.300	44.64	170.0	32.4	4.38	16.7	5.75	1.37
10 x 33	9.71	9.73	7.960	0.435	0.290	49.11	170.0	35.0	4.19	36.60	9.20	1.94
10 x 42	12.40	9.70	10.075	0.415	0.420	62.50	210.0	43.4	4.13	71.70	14.20	2.41
10 x 45	13.30	10.10	8.020	0.620	0.350	66.97	248.0	49.1	4.33	53.40	13.30	2.01
10 x 49	14.40	9.98	10.000	0.560	0.340	72.92	272.0	54.6	4.35	93.40	18.70	2.54
10 x 54	15.80	10.09	10.030	0.615	0.370	80.36	303.0	60.0	4.37	103.00	20.60	2.56
10 x 60	17.60	10.22	10.080	0.680	0.420	89.29	341.0	66.7	4.39	116.00	23.00	2.57
12 x 19	5.57	12.16	4.000	0.350	0.235	28.28	130.0	21.3	4.82	3.76	1.88	0.82

DESIGNACIÓN pulg x lb / pie	ÁREA DE SECCIÓN A pulg.2	ALTURA d pulg	ALA		ESPESOR ALMA tw pulg	PESO Kg/m	EJE X - X			EJE Y - Y		
			ANCHO bf pulg	ESPESOR tf pulg			l pulg.4	S pulg.3	r pulg.	l' pulg.4	S' pulg.3	r' pulg.
12 x 26	7.65	12.22	6.490	0.380	0.230	38.69	204.0	33.4	5.17	17.30	5.34	1.51
12 x 30	8.79	12.34	6.520	0.440	0.260	44.64	238.0	38.6	5.21	20.30	6.24	1.52
12 x 35	10.30	12.50	6.560	0.520	0.300	52.09	285.0	45.6	5.25	24.50	7.47	1.54
12 x 40	11.80	11.94	8.005	0.515	0.295	59.53	310.0	51.9	5.13	44.10	11.00	1.93
12 x 53	15.60	12.06	9.995	0.575	0.345	78.87	425.0	70.6	5.23	95.80	19.20	2.48
12 x 53 HP	15.50	11.78	12.045	0.435	0.435	78.87	393.0	66.8	5.03	127.00	21.10	2.86
12 x 65	19.10	12.12	12.000	0.605	0.390	96.73	533.0	87.9	5.28	174.00	29.10	3.02
12 x 72	21.10	12.25	12.240	0.670	0.430	107.10	597.0	97.4	5.31	195.00	32.40	3.04
12 x 79	23.20	12.38	12.080	0.735	0.470	117.60	662.0	107.0	5.34	216.00	35.80	3.05
14 x 22	6.49	13.74	5.000	0.335	0.230	32.74	199.0	29.0	5.54	7.00	2.80	1.04
14 x 30	8.85	13.84	6.730	0.385	0.270	44.64	291.0	42.0	5.73	19.60	5.82	1.49
14 x 34	10.00	13.98	6.745	0.455	0.285	50.60	340.0	48.6	5.83	23.30	6.91	1.53
14 x 38	11.20	14.10	6.770	0.515	0.310	56.55	385.0	54.6	5.87	26.70	7.88	1.55
14 x 43	12.60	13.66	7.995	0.530	0.305	63.99	428.0	62.7	5.82	45.20	11.30	1.89
14 x 48	14.10	13.79	8.030	0.595	0.340	71.43	485.0	70.3	5.85	51.40	12.80	1.91
14 x 53	15.60	13.92	8.060	0.660	0.370	78.87	541.0	77.8	5.89	57.70	14.30	1.92
14 x 61	17.90	13.89	9.995	0.645	0.375	90.78	640.0	92.2	5.98	107.00	21.50	2.45
14 x 68	20.00	14.04	10.035	0.720	0.415	101.20	723.0	103.0	6.01	121.00	24.20	2.46
14 x 71	21.80	14.17	10.070	0.785	0.450	110.10	796.0	112.0	6.04	134.00	26.60	2.48
14 x 82	24.10	14.31	10.130	0.855	0.510	122.00	882.0	123.0	6.05	148.00	29.30	2.48
14 x 90	26.50	14.02	14.520	0.710	0.440	133.90	999.0	143.0	6.14	362.0	49.90	3.7
16 x 26	7.68	15.69	5.500	0.345	0.250	38.69	301.0	38.4	6.26	9.59	3.49	1.12
16 x 36	10.60	15.86	6.985	0.430	0.295	53.57	448.0	56.5	6.51	24.50	7.00	1.52
16 x 40	11.80	16.01	6.995	0.505	0.305	59.53	518.0	64.7	6.63	28.90	8.25	1.57
16 x 45	13.30	16.13	7.035	0.565	0.345	66.97	586.0	72.7	6.65	32.80	9.34	1.57
16 x 57	16.80	16.43	7.120	0.715	0.430	84.83	758.0	92.2	6.72	43.10	12.10	1.6
18 x 35	10.30	17.70	6.000	0.425	0.300	52.09	510.0	57.6	7.04	15.30	5.12	1.22
18 x 40	11.80	17.90	6.015	0.525	0.315	59.33	612.0	68.4	7.21	19.10	6.35	1.27
18 x 50	14.70	17.99	7.495	0.570	0.355	74.41	800.0	88.9	7.38	40.10	10.70	1.65
18 x 55	16.20	18.11	7.530	0.630	0.390	81.85	890.0	98.3	7.41	44.90	11.90	1.67
18 x 65	19.10	18.35	7.590	0.750	0.450	96.73	1070.0	117.0	7.49	54.80	14.40	1.69
18 x 76	22.30	18.21	11.035	0.680	0.425	113.10	1330.0	146.0	7.73	152.00	27.60	2.61

DESIGNACIÓN pulg x lb / pie	ÁREA DE SECCIÓN A pulg.2	ALTURA d pulg	ALA		ESPEJOR ALMA tw pulg	PESO Kg/m	EJE X - X			EJE Y - Y		
			ANCHO bf pulg	ESPEJOR tf pulg			l pulg.4	S pulg.3	r pulg.	l' pulg.4	S' pulg.3	r' pulg.
18 x 86	25.30	18.39	11.090	0.770	0.480	128.00	1530.0	166.0	7.77	175.00	31.60	2.63
21 x 44	13.00	20.66	6.500	0.750	0.350	65.18	843.0	81.6	8.06	20.70	6.36	1.26
21 x 62	18.30	20.99	8.240	0.615	0.400	92.27	1330.0	127.0	8.54	57.50	13.90	1.77
21 x 68	20.00	21.13	8.270	0.685	0.430	101.20	1480.0	140.0	8.6	64.70	15.70	1.8
21 x 73	21.50	21.24	8.295	0.740	0.455	108.60	1600.0	151.0	8.64	70.60	17.00	1.81
24 x 55	16.20	23.57	7.005	0.505	0.395	81.85	1350.0	114.0	9.11	29.10	8.30	1.34
24 x 68	20.10	23.73	8.965	0.585	0.415	101.20	1830.0	154.0	9.55	70.40	15.70	1.87
24 x 76	22.40	23.92	8.990	0.680	0.440	113.10	2100.0	176.0	9.69	82.50	18.40	1.92
24 x 84	24.70	24.10	9.020	0.770	0.470	125.00	2370.0	196.0	9.79	94.40	20.90	1.95
24 x 94	27.70	24.31	9.065	0.875	0.515	139.90	2700.0	222.0	9.87	109.00	24.00	1.98
24 x 104	30.60	24.06	12.750	0.750	0.500	154.80	2100.0	258.0	10.1	259.00	40.70	2.91
24 x 117	34.40	24.26	12.800	0.850	0.550	174.10	3540.0	291.0	10.1	297.00	46.50	2.94
27 x 84	24.80	26.71	9.960	0.640	0.460	125.00	2850.0	213.0	10.7	106.00	21.20	2.07

Dimensiones Estándar y características de la sección

NORMAS EUPEAS Y JIS

DESIGNACIÓN mm (kg/m)	ÁREA DE SECCIÓN A cm2	ALTURA d mm	ALA		ESPEJOR ALMA tw mm	PESO lb/pie	EJE X - X			EJE Y - Y		
			ANCHO bf mm	ESPEJOR tf mm			l cm4	S cm3	r cm	l' cm4	S' cm3	r' cm
HE 100 A (16.7)	21.24	96.00	100.00	8.00	5.00	11.22	349.20	72.76	4.06	133.8	26.76	2.51
HE 100 B (20.4)	26.04	100.00	100.00	10.00	6.00	13.71	449.50	89.91	4.16	167.30	33.45	2.53
HE 140 B (33.7)	42.96	140.00	140.00	12.00	7.00	22.60	1509.00	215.60	5.93	549.70	78.52	3.58
125 (23.8)	30.31	125.00	125.00	9.00	6.50	15.95	847.00	136.00	5.29	293.00	47.00	3.11
200 (21.3)	27.16	200.00	100.00	8.00	5.50	14.27	1840.00	184.00	8.24	134.00	26.80	2.22

* Longitud Standard: 20' y 30'