

VIGAS H ESTRUCTURALES
 ASTM A 36/ A 36 M
 ASTM A 572/ A572M GR 50
 ASTM A992/A992 M

Denominación	Viga H de alas anchas, wide flange (wf) Laminadas en caliente, de mediana y alta resistencia
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Norma técnica	<ul style="list-style-type: none"> -ASTM A 36/ A36 M -ASTM A 572/A572 M Gr 50 -ASTM A 992/ A 992 M y, -CSA 350 W
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DESCRIPCIÓN

Perfil de Acero estructural cuya sección transversal tiene la forma de una H con alas paralelas interna y externamente, que se obtiene por laminación en caliente, a partir de un tocho o palanquilla

USOS

Estructuras metálicas para plantas industriales como vigas o columnas, edificios, puentes, grúas, cerchas (cimbras), embarcaciones, y estructuras metálicas en general, etc.

TOLERANCIAS

De acuerdo al ASTM A6/A 6 M

PRESENTACION:

Longitud estándar: 6.0 m y 12.0 metros

Usualmente vienen en bi-norma, tri-norma o solo

A 36/ A 36 M

CERTIFICADOS DE CALIDAD

Se entregan con el suministro del material.

PROPIEDADES MECANICAS

Normas Técnicas	Grado	Propiedades mecánicas mínimas		
		Límite de Fluencia Mpa \geq	Carga de rotura Mpa \geq	Elongación %
ASTM A 36/A 36 M		250	400- 550	21 (2") 20(8")
ASTM A 572/A 572 M	50	345	450 min	21(2") 18(8")
ASTM A 992/A 992 M		345	450- 550	21(2") 20(8")

DIMENSIONES ESTANDARES

Designación Nominal		Peralte Alma (d) en pulgadas	Ala (b) en pulgadas	Espesor Nominal	
Pulgadas	Lb/pie			Ala (f) mm	Alma (w) mm
4"	13.0	4.16	4.06	8.76	7.11
5"	16.0	5.01	5.00	9.14	6.10
	19.0	5.15	5.03	10.92	6.86
6"	8.5	5.83	3.94	4.95	4.32
	9.0	5.90	3.94	5.46	4.32
	12.0	6.03	4.00	7.11	5.84
6"	16.0	6.28	4.03	10.29	6.60
	15.0	5.99	5.99	6.60	5.84
	20.0	6.20	6.02	9.27	6.60
6"	25.0	6.38	6.08	11.56	8.13
	10.0	7.89	3.94	5.21	4.32
	13.0	7.99	4.00	6.48	5.84
8"	15.0	8.11	4.02	8.00	6.22
	18.0	8.14	5.25	8.38	5.84
8"	21.0	8.28	5.27	10.16	6.35
	24.0	7.93	6.50	10.16	6.22
8"	28.0	8.06	6.54	11.81	7.24
	31.0	8.00	8.00	11.05	7.24
8"	35.0	8.12	8.02	12.57	7.87
	40.0	8.25	8.07	14.22	9.14
	48.0	8.50	8.11	17.40	10.16
	58.0	8.75	8.22	20.57	12.95
	67.0	9.00	8.28	23.75	14.48
10"	12.0	9.87	3.96	5.33	4.83
	15.0	9.99	4.00	6.86	5.84
	17.0	10.11	4.01	8.38	6.10
	19.0	10.24	4.02	10.03	6.35

Designación Nominal		Peralte Altura Alma (d) en pulgadas	Ala (b) en pulgadas	Espesor Nominal	
Pulgadas	Lb/pie			Ala (f) mm	Alma (w) mm
10"	22.0	10.17	5.75	9.14	6.10
	26.0	10.33	5.77	11.18	6.60
	30.0	10.47	5.81	12.95	7.62
10"	33.0	9.73	7.96	11.05	7.37
	39.0	9.92	7.99	13.46	8.00
	45.0	10.10	8.02	15.75	8.89
10"	49.0	9.98	10.00	14.22	8.64
	54.0	10.09	10.03	15.62	9.40
	60.0	10.22	10.08	17.27	10.67
	68.0	10.40	10.13	19.56	11.94
	77.0	10.60	10.19	22.10	13.46
	88.0	10.84	10.27	25.15	15.37
	100.0	11.10	10.34	28.45	17.27
12"	112.0	11.36	10.42	31.75	19.18
	14.0	11.91	3.97	5.72	5.08
	16.0	11.99	3.99	6.73	5.59
	19.0	12.16	4.01	8.89	5.97
12"	22.0	12.31	4.03	10.80	6.60
	26.0	12.22	6.49	9.65	5.84
	30.0	12.34	6.52	11.18	6.60
12"	35.0	12.50	6.56	13.21	7.62
	40.0	11.94	8.01	13.08	7.49
	45.0	12.06	8.05	14.61	8.51
12"	50.0	12.19	8.08	16.26	9.40
	53.0	12.06	10.00	14.61	8.76
	58.0	12.19	10.01	16.26	9.14
12"	65.0	12.12	12.00	15.37	9.91
	72.0	12.25	12.04	17.02	10.92
	79.0	12.38	12.08	18.67	11.94
	87.0	12.53	12.13	20.57	13.08
	96.0	12.71	12.16	22.86	13.97
	106.0	12.89	12.22	25.15	15.49
	120.0	13.12	12.32	28.07	18.03
	136.0	13.41	12.40	31.75	20.07
	152.0	13.71	12.48	35.56	22.10
	170.0	14.03	12.57	39.62	24.38
	190.0	14.38	12.67	44.07	26.92
	210.0	14.71	12.79	48.26	29.97
	230.0	15.05	12.90	52.58	32.64
	252.0	15.41	13.01	57.15	35.43
	279.0	15.85	13.14	62.74	38.86
305.0	16.32	13.24	68.71	41.28	
336.0	16.82	13.39	75.06	45.09	
14"	22.0	13.74	5.00	8.51	5.84
	26.0	13.91	5.03	10.67	6.48
14"	30.0	13.84	6.73	9.78	6.86
	34.0	13.98	6.75	11.56	7.24
	38.0	14.10	6.77	13.08	7.87

Designación Nominal		Peralte Altura Alma (d) en pulgadas	Ala (b) en pulgadas	Espesor Nominal	
Pulgadas	Lb/pie			Ala (f) mm	Alma (w) mm
14"	43.0	13.66	8.00	13.46	7.75
	48.0	13.79	8.03	15.11	8.64
	53.0	13.92	8.06	16.76	9.40
14"	61.0	13.89	10.00	16.38	9.53
	68.0	14.04	10.04	18.29	10.54
	74.0	14.17	10.07	19.94	11.43
	82.0	14.31	10.13	21.72	12.95
14"	90.0	14.02	14.52	18.03	11.18
	99.0	14.16	14.357	19.81	12.32
	109.0	14.32	14.61	21.84	13.34
	120.0	14.48	14.67	23.88	14.99
	132.0	14.66	14.73	26.16	16.38
	145.0	14.78	15.50	27.69	17.27
14"	159.0	14.98	15.57	30.23	18.92
	176.0	15.22	15.65	33.27	21.08
	193.0	15.48	15.71	36.58	22.61
	211.0	15.72	15.80	39.62	24.89
	233.0	16.04	15.89	43.69	27.18
	257.0	16.38	16.00	48.01	29.85
	283.0	16.74	16.11	52.58	32.77
	311.0	17.12	16.23	57.40	35.81
	342.0	17.54	16.36	62.74	39.12
	370.0	17.92	16.48	67.56	42.04
	398.0	18.29	16.59	72.26	44.96
	426.0	18.67	16.70	77.09	47.63
	455.0	19.02	16.84	81.53	51.18
	500.0	19.60	17.01	88.90	55.63
	550.0	20.24	17.20	97.03	60.45
	605.0	20.92	17.42	105.66	65.91
	665.0	21.64	17.65	114.81	71.88
	730.0	22.42	17.89	124.71	77.98
808.0	22.84	18.56	130.05	95.00	
873.0	23.62	18.76	139.95	99.95	
16"	26.0	15.69	5.50	8.76	6.35
	31.0	15.88	5.53	11.18	6.99
16"	36.0	15.86	6.99	10.92	7.49
	40.0	16.01	7.00	12.83	7.75
	45.0	16.13	7.04	14.35	8.76
	50.0	16.26	7.07	16.00	9.65
	57.0	16.43	7.12	18.16	10.92
16"	67.0	16.33	10.24	16.89	10.03
	77.0	16.52	10.30	19.30	11.56
	89.0	16.75	10.37	22.23	13.34
	100.0	16.97	10.43	25.02	14.86
18"	35.0	17.70	6.00	10.80	7.62
	40.0	17.90	6.02	13.34	8.00
	46.0	18.06	6.06	15.37	9.14

Designación Nominal		Peralte Altura Alma (d) en pulgadas	Ala (b) en pulgadas	Espesor Nominal	
Pulgadas	Lb/pie			Ala (f) mm	Alma (w) mm
18"	50.0	17.99	7.50	14.48	9.02
	55.0	18.11	7.53	16.00	9.91
	60.0	18.24	7.56	17.65	10.54
	65.0	18.35	7.59	19.05	11.43
	71.0	18.47	7.64	20.57	12.57
18"	76.0	18.21	11.04	17.27	10.80
	86.0	18.39	11.09	19.56	12.19
	97.0	18.59	11.15	22.10	13.59
	106.0	18.73	11.20	23.88	14.99
	119.0	18.97	11.27	26.92	16.64
	130.0	19.25	11.16	30.48	17.02
	143.0	19.49	11.22	33.53	18.54
	158.0	19.72	11.30	36.58	20.57
	175.0	20.04	11.38	40.39	22.61
	192.0	20.35	11.46	44.45	24.38
	211.0	20.67	11.56	48.51	26.92
	234.0	21.06	11.65	53.59	29.46
	258.0	21.16	11.77	58.42	32.51
283.0	21.85	11.89	63.50	35.56	
311.0	22.32	12.01	69.60	38.61	
21"	44.0	20.66	6.50	11.43	8.89
	50.0	20.83	6.53	13.59	9.65
	57.0	21.06	6.56	16.51	10.29
21"	48.0	20.62	8.14	10.92	8.89
	55.0	20.80	8.22	13.26	9.53
	62.0	20.99	8.24	15.62	10.16
	68.0	21.13	8.27	17.40	10.92
	73.0	21.24	8.30	18.80	11.56
	83.0	21.43	8.36	21.21	13.08
	93.0	21.62	8.42	23.62	14.73
21"	101.0	21.36	12.29	20.32	12.70
	111.0	21.51	12.34	22.23	13.97
	122.0	21.68	12.39	24.38	15.24
	132.0	21.83	12.44	26.29	16.51
	147.0	22.06	12.51	29.21	18.29
	166.0	22.48	12.42	34.54	19.05
	182.0	22.72	12.50	37.59	21.08
	201.0	23.03	12.58	41.40	23.11
	223.0	23.35	12.68	45.47	25.40
	248.0	23.74	12.78	50.55	27.94
275.0	24.13	12.89	55.63	30.99	
24"	55.0	23.57	7.01	12.83	10.03
	62.0	23.74	7.04	14.99	10.92
24"	68.0	23.73	8.97	14.86	10.54
	76.0	23.92	8.99	17.27	11.18
	84.0	24.10	9.02	19.56	11.94
	94.0	24.31	9.07	22.23	13.08
	103.0	24.53	9.00	24.89	13.97

Designación Nominal		Peralte Altura Alma (d) en pulgadas	Ala (b) en pulgadas	Espesor Nominal	
Pulgadas	Lb/pie			Ala (f) mm	Alma (w) mm
24"	104.0	24.06	12.75	19.05	12.70
	117.0	24.26	12.80	21.59	13.97
	131.0	24.48	12.86	24.38	15.37
	146.0	24.74	12.90	27.69	16.51
	162.0	25.00	12.96	30.99	17.91
	176.0	25.24	12.89	34.04	19.05
	192.0	25.47	12.95	37.08	20.57
	207.0	25.71	13.01	39.88	22.10
	229.0	26.02	13.11	43.94	24.38
	250.0	26.34	13.19	48.01	26.42
	279.0	26.73	13.31	53.09	29.46
	306.0	27.13	13.41	57.91	32.00
	335.0	27.52	13.52	62.99	35.05
	370.0	27.99	13.66	69.09	38.61
	27"	84.0	26.71	9.96	16.26
94.0		26.92	9.99	18.92	12.45
102.0		27.09	10.02	21.08	13.08
114.0		27.29	10.07	23.62	14.48
129.0		27.63	10.01	27.94	15.49
27"	146.0	27.38	13.97	24.77	15.37
	161.0	27.59	14.02	27.43	16.76
	178.0	27.81	14.09	30.23	18.42
	194.0	28.11	14.04	34.04	19.05
	217.0	28.43	14.12	38.10	21.08
	235.0	28.66	14.19	40.89	23.11
	258.0	28.98	14.27	44.96	24.89
27"	281.0	29.29	14.35	49.02	26.92
	307.0	14.45	14.45	53.09	29.46
	336.0	14.55	14.55	57.91	32.00
	368.0	14.67	14.67	62.99	35.05
30"	539.0	15.26	15.26	89.92	50.04
	90.0	29.53	10.40	15.49	11.94
	99.0	29.65	10.45	17.02	13.21
	108.0	29.83	10.48	19.30	13.94
	116.0	30.01	10.50	21.59	14.35
	124.0	30.17	10.52	23.62	14.86
	132.0	30.31	10.55	25.40	15.62
	148.0	30.67	10.48	29.97	16.51
30"	173.0	30.44	14.99	27.05	16.64
	191.0	30.68	15.04	30.10	18.03
	211.0	30.94	15.11	33.40	19.69
	235.0	31.30	15.06	38.10	21.08
	261.0	31.61	15.16	41.91	23.62
	292.0	30.01	15.26	46.99	25.91
	326.0	32.40	15.37	52.07	28.96
	357.0	32.80	15.47	56.90	31.50
	391.0	33.19	15.59	61.98	34.54

Designación Nominal		Peralte Altura Alma (d) en pulgadas	Ala (b) en pulgadas	Espesor Nominal	
Pulgadas	Lb/pie			Ala (f) mm	Alma (w) mm
33"	118.0	32.86	11.48	18.80	13.97
	130.0	33.09	11.51	21.72	14.73
	141.0	33.30	11.54	24.38	15.37
	152.0	33.49	11.57	26.80	16.13
	169.0	33.82	11.50	30.99	17.02
33"	201.0	33.68	15.75	29.21	18.16
	221.0	33.93	15.81	32.39	19.69
	241.0	34.18	15.86	35.56	21.08
	263.0	34.53	15.81	39.88	22.10
	291.0	34.84	15.91	43.94	24.38
	318.0	35.16	15.99	48.01	26.42
	354.0	35.55	16.10	53.09	29.46
	387.0	35.95	16.20	57.91	32.00
36"	135.0	35.55	11.95	20.07	15.24
	150.0	35.85	11.98	23.88	15.88
	160.0	36.01	12.00	25.91	16.51
	170.0	36.17	12.03	27.94	17.27
	182.0	36.33	12.08	29.97	18.42
	194.0	36.49	12.12	32.00	19.43
	210.0	36.69	12.18	34.54	21.08
	232.0	37.12	12.12	39.88	22.10
	256.0	36.33	12.08	43.94	24.38
	286.0	36.33	12.08	49.00	26.90
	318.0	38.23	12.44	54.10	30.00
	350.0	38.62	12.56	58.90	32.99
	367.0	36.49	12.12	65.00	36.09