

VIGAS H ESTRUCTURALES ASTM A 36/A 36MS, ASTM A 572/A572 M GR 50, ASTM A992/A992 M

Denominación	Vigas H laminadas en caliente en calidad estructural ASTM A 36/ A 36 M, ASTM A 572/ A 572 M grado 50, ASTM A 992/ A 992 M, CSA 350W
Norma técnica	ASTM A 36/ A 36 M, ASTM A 572/ A 572 M grado 50 y ASTM A 992/ A 992 M, CSA 350W

DESCRIPCIÓN

Perfil de Acero de sección transversal en forma de H y que se obtiene por laminación en caliente, a partir de planchillas y tochos de acero estructural.

TOLERANCIA

Propiedades Mecánicas: ASTM A 36/A 36 M, ASTM A 572/ A 572 M grado 50 y ASTM A 992/A 992 M
Tolerancias dimensionales ASTM A 6/A 6 M

USOS

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

COMPOSICION QUIMICA

C=0,23% max, P=0,035% max, S=0,045% max, Si=0,40% max Mn=0,50 a 1,50%, V=0,15% max Nb=0,05% max.

CERTIFICADO DE CALIDAD

Se entregan con el suministro del material.

PROPIEDADES MECÁNICAS

Norma técnica	G r a d o	Propiedades Mecánicas (min)		
		Limite de frecuencia Mpa	Carga de Rotura Mpa	Elongacion %
ASTM A 36/ A 36M		250	400 - 550	21(2") 20(8")
ASTM A 572/ A 572M	50	345	450 min	21(2") 18(8")
ASTM A 992/ A 992M		345	450 - 550	21(2") 20(8")

* () probeta

DIMENSIONES Y ESTANDARES

Designacion nominal		Peralte Altura Alma(d)	ALA(b) Pulgada	Espesor Nominal	
Pulgada	lb/pie			ALA (f) mm	Alma (w) mm
4"	13,0	4,16	4,060	8,76	7,11
5"	16,0	5,01	5,000	9,14	6,10
	19,0	5,15	5,030	10,92	6,86
6"	8,5	5,83	3,940	4,95	4,32
	9,0	5,90	3,940	5,46	4,32
	12,0	6,03	4,000	7,11	5,84
	16,0	6,28	4,030	10,29	6,60
6"	15,0	5,99	5,990	6,60	5,84
	20,0	6,20	6,020	9,27	6,60
	25,0	6,38	6,080	11,59	8,13
8"	10,0	7,89	3,940	5,21	4,32
	13,0	7,99	4,000	6,48	5,84
	15,0	8,11	4,015	8,00	6,22
8"	18,0	8,14	5,250	8,38	5,84
	21,0	8,28	5,270	10,16	6,35
8"	24,0	7,93	6,495	10,16	6,22
	28,0	8,06	6,535	11,81	7,24
8"	31,0	8,00	7,995	11,05	7,24
8"	35,0	8,12	8,020	12,57	7,87
	40,0	8,25	8,070	14,22	9,14
	48,0	8,50	8,110	17,40	10,16
	58,0	8,75	8,220	20,57	12,95
	67,0	9,00	8,280	23,75	14,48
10"	12,0	9,87	3,960	5,33	4,83
	15,0	9,99	4,000	6,86	5,84
	17,0	10,11	4,010	8,38	6,10
	19,0	10,24	4,020	10,03	6,35
10"	22,0	10,17	5,750	9,14	6,10
	26,0	10,33	5,770	11,18	6,60
	30,0	10,47	5,810	12,95	7,62
10"	33,0	9,73	7,960	11,05	7,37
	39,0	9,92	7,985	13,46	8,00
	45,0	10,10	8,020	15,75	8,89

VIGAS H ESTRUCTURALES
 ASTM A 36/A 36MS,
 ASTM A 572/A572 M GR 50,
 ASTM A992/A992 M

Designacion nominal	Peralte Altura Alma(d)		ALA(b) Pulgada	Espesor Nominal	
	Pulgada	lb/pie		ALA (f) mm	Alma (w) mm
10"	49,0	9,98	10,000	14,22	8,64
	54,0	10,09	10,030	15,62	9,40
	60,0	10,22	10,080	17,27	10,64
	68,0	10,40	10,130	19,56	11,94
	77,0	10,60	10,190	22,10	13,46
	88,0	10,84	10,265	25,15	15,37
	100,0	11,10	10,340	28,45	17,27
	112,0	11,36	10,415	31,75	19,18
12"	14,0	11,91	3,970	5,72	5,08
	16,0	11,99	3,990	6,73	5,59
	19,0	12,16	4,005	8,89	5,97
	22,0	12,31	4,030	10,80	6,60
12"	26,0	12,22	6,490	9,65	5,84
	30,0	12,34	6,520	11,18	6,60
	35,0	12,50	6,560	13,21	7,62
12"	53,0	12,06	9,995	14,61	8,76
	58,0	12,19	10,010	16,26	9,14
12"	65,0	12,12	12,000	15,37	9,91
	72,0	12,25	12,040	17,02	10,92
	79,0	12,38	12,080	18,67	11,94
	87,0	12,53	12,125	20,57	13,08
	96,0	12,71	12,160	22,86	13,97
	106,0	12,89	12,220	25,15	15,49
	120,0	13,12	12,320	28,07	18,03
	136,0	13,41	12,400	31,75	20,07
	152,0	13,71	12,480	35,56	22,10
	170,0	14,03	12,570	39,62	24,38
	190,0	14,38	12,670	44,07	26,92
	210,0	17,71	12,790	48,26	29,97
	230,0	15,05	12,895	52,58	32,64
	252,0	15,41	13,005	57,15	35,43
279,0	15,85	13,140	62,74	38,86	
12"	36,0	15,86	6,985	10,92	7,49
	40,0	16,01	6,995	12,83	7,75
	45,0	16,13	7,035	14,35	8,76
	50,0	16,26	7,070	16,00	9,65
	57,0	16,43	7,120	18,16	10,92

Designacion nominal	Peralte Altura Alma(d)		ALA(b) Pulgada	Espesor Nominal	
	Pulgada	lb/pie		ALA (f) mm	Alma (w) mm
16"	67,0	16,33	10,235	16,89	10,03
	77,0	16,52	10,295	19,30	11,56
	89,0	16,75	10,365	22,23	13,34
	100,0	16,97	10,425	25,02	14,86
18"	35,0	17,70	6,000	10,80	7,62
	40,0	17,90	6,015	13,34	8,00
	46,0	18,06	6,060	15,37	9,14
18"	50,0	17,99	7,495	14,48	9,02
	55,0	18,11	7,530	16,00	9,91
	60,0	18,24	7,555	17,65	10,54
	65,0	18,35	7,590	19,05	11,43
	71,0	18,47	7,635	20,57	12,57
18"	76,0	18,21	11,035	17,27	10,80
	86,0	18,39	11,090	19,56	12,19
	97,0	18,59	11,145	22,10	13,59
	106,0	18,73	11,200	23,88	14,99
	119,0	18,97	11,265	26,92	16,64
	130,0	19,25	11,160	30,48	17,02
	143,0	19,49	11,220	33,53	18,54
	158,0	19,72	11,300	36,58	20,57
	175,0	20,04	11,375	40,39	22,61
	192,0	20,35	11,455	44,45	24,38
	211,0	20,67	11,555	48,51	26,92
	234,0	21,06	11,650	53,59	29,46
	258,0	21,46	11,770	58,42	32,51
	283,0	21,85	11,890	63,50	35,56
311,0	22,32	12,005	69,60	38,61	
21"	44,0	20,66	6,500	11,43	8,89
	50,0	20,83	6,530	13,59	9,65
	57,0	21,06	6,555	16,51	10,29
21"	48,0	20,62	8,140	10,92	8,89
	55,0	20,80	8,220	13,26	9,53
	62,0	20,99	8,240	15,62	10,16
	68,0	21,13	8,270	17,40	10,92
	73,0	21,24	8,295	18,80	11,56
	83,0	21,43	8,355	21,21	13,08
	93,0	21,62	8,420	23,62	14,73

VIGAS H ESTRUCTURALES
 ASTM A 36/A 36MS,
 ASTM A 572/A572 M GR 50,
 ASTM A992/A992 M

Designacion nominal	Peralte Altura Alma(d)		ALA(b) Pulgada	Espesor Nominal	
	Pulgada	lb/pie		Pulgada	ALA (f) mm
27"	307,0	29,61	14,445	53,09	29,46
	336,0	30,00	14,550	57,91	32,00
	368,0	30,39	14,665	62,91	35,05
	539,0	32,52	15,255	89,92	50,04
30"	90,0	29,53	10,400	15,49	11,94
	99,0	29,65	10,450	17,02	13,21
	108,0	29,83	10,475	19,30	13,84
	116,0	30,01	10,495	21,59	14,35
	124,0	30,17	10,515	23,62	14,86
	132,0	30,31	10,545	25,40	15,62
	148,0	30,67	10,480	29,97	16,51
30"	173,0	30,44	14,985	27,05	16,64
	191,0	30,68	15,040	30,10	18,03
	211,0	30,94	15,105	33,40	19,69
	235,0	31,30	15,055	38,10	21,08
	261,0	31,61	15,155	41,91	23,62
	292,0	32,01	15,255	46,99	25,91
	326,0	32,40	15,370	52,07	28,96
	357,0	32,80	15,470	56,90	31,50
	391,0	33,19	15,590	61,98	34,54
33"	118,0	32,86	11,480	18,80	13,97
	130,0	33,09	11,510	21,72	14,73
	141,0	33,30	11,535	24,38	15,37
	152,0	33,49	11,565	26,80	16,13
	169,0	33,82	11,500	30,99	17,02
33"	201,0	33,68	15,745	29,21	18,16
	221,0	33,93	15,805	32,39	19,69
	241,0	34,18	15,860	35,56	21,08
	263,0	34,53	15,805	39,88	22,10
	291,0	34,84	15,905	43,94	24,38
	318,0	35,16	15,985	48,01	26,42
	354,0	35,55	16,100	53,09	29,46
	387,0	35,95	16,200	57,91	32,00

Designacion nominal	Peralte Altura Alma(d)		ALA(b) Pulgada	Espesor Nominal	
	Pulgada	lb/pie		Pulgada	ALA (f) mm
36"	135,0	35,55	11,950	20,07	15,24
	150,0	35,85	11,975	23,88	15,88
	160,0	36,01	12,000	25,91	16,51
	170,0	36,17	12,030	27,94	17,27
	182,0	36,33	12,075	29,97	18,42
	194,0	36,49	12,115	32,00	19,43