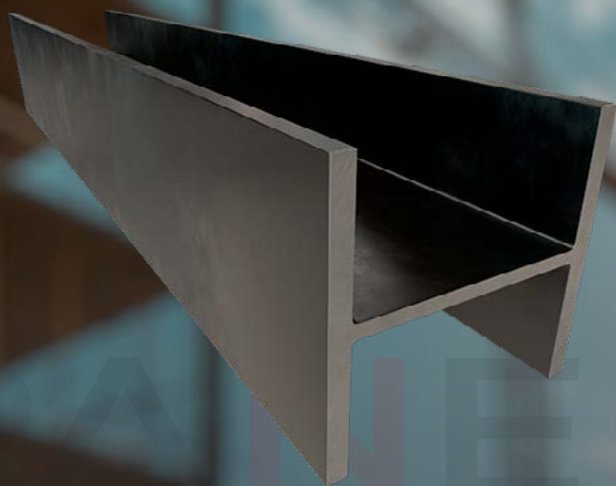




PANEL
Y ACANALADOS MONTERREY

PANEL
Y ACANALADOS MONTERREY



VIGA IPR

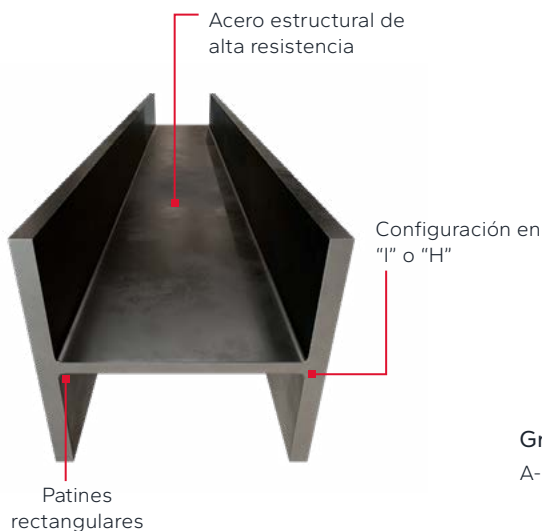


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VIGA IPR



Grado de Acero
A-572-50



ESPECIFICACIONES



- Longitudes: 12.20 m y 6.10 m (en algunas medidas)

- Medidas nominales: 4 x 4" a 40 x 12"

- Peraltes: 4" (106 mm) a 40" (1016 mm)

- Anchos del patín: 4" (106 mm) a 12" (304.8 mm)

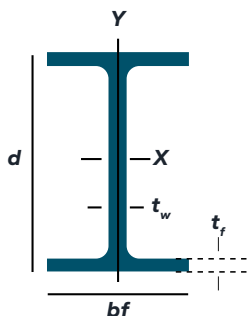


- Espesores del patín: 0.200" (5.00 mm) a 1.890" (48 mm)

- Alma: 0.170" (4.30 mm) a 1.175" (29.80 mm)

APLICACIONES

- Infraestructura industrial
- Infraestructura comercial
- Infraestructura pública
- Carrocerías



Vigas IPR											
Nominal		Peso		Peralte		Patin				Alma	
				d		Ancho (bf)		Espesor (t _p)		Espesor (t _w)	
Pulgadas (d x bf)	mm (d x bf)	kg/m	lb/ pie	in	mm	in	mm	in	mm	in	mm
4 x 4	101.6 x 101.6	19.30	13	4.160	106	4.060	103	0.350	8.80	0.280	7.11
6 x 4	152.4 x 101.6	12.60	8.5	5.830	148	3.940	100	0.200	5.00	0.170	4.30
		13.40	9	5.900	150	3.940	100	0.220	5.50	0.170	4.30
		17.90	12	6.030	153	4.000	102	0.280	7.10	0.230	5.80
		23.80	16	6.280	160	4.030	102	0.410	10.30	0.260	6.60
6 x 6	152.4 x 152.4	22.30	15	5.990	152	5.990	152	0.260	6.60	0.230	5.80
		29.80	20	6.200	157	6.020	153	0.370	9.30	0.260	6.60
		37.20	25	6.380	162	6.080	154	0.460	11.60	0.320	8.10
8 x 4	203.2 x 101.6	14.90	10	7.890	200	3.940	100	0.210	5.20	0.170	4.30
		19.30	13	7.990	203	4.000	102	0.260	6.50	0.230	5.80
		22.30	15	8.110	206	4.020	102	0.320	8.00	0.250	6.20
8 x 5 1/4	203.2 x 133.4	26.80	18	8.140	207	5.250	133	0.330	8.40	0.230	5.80
		31.20	21	8.280	210	5.270	134	0.400	10.20	0.250	6.40
8 x 6 1/2	203.2 x 165.1	35.70	24	7.930	201	6.500	165	0.400	10.20	0.250	6.20
		41.70	28	8.060	205	6.540	166	0.470	11.80	0.290	7.20
8 x 8	203.2 x 203.2	46.10	31	8.000	203	8.000	203	0.440	11.00	0.290	7.20
		52.10	35	8.120	206	8.020	204	0.500	12.60	0.310	7.90
		59.50	40	8.250	210	8.070	205	0.560	14.20	0.360	9.10
		71.40	48	8.500	216	8.110	206	0.690	17.40	0.400	10.20
		86.30	58	8.750	222	8.220	209	0.810	20.60	0.510	13.00
10 x 4	254 x 101.6	17.90	12	9.870	251	3.960	101	0.210	5.30	0.190	4.80
		22.30	15	9.990	254	4.000	102	0.270	6.90	0.230	5.80
		25.30	17	10.110	257	4.010	102	0.330	8.40	0.240	6.10
		28.30	19	10.240	260	4.020	102	0.400	10.00	0.250	6.40
10 x 5 3/4	254 x 146	32.70	22	10.170	258	5.750	146	0.360	9.10	0.240	6.10
		38.70	26	10.330	262	5.770	147	0.440	11.20	0.260	6.60
		44.60	30	10.470	266	5.810	148	0.510	13.00	0.300	7.60
10 x 8	254 x 203.2	49.10	33	9.730	247	7.960	202	0.440	11.00	0.290	7.40
		58.00	39	9.920	252	7.990	203	0.530	13.50	0.320	8.00
		67.00	45	10.100	257	8.020	204	0.620	15.70	0.350	8.90
10 x 10	254 x 254	72.90	49	9.980	253	10.000	254	0.560	14.20	0.340	8.60
		80.40	54	10.090	256	10.030	255	0.620	15.60	0.370	9.40
		89.30	60	10.220	260	10.080	256	0.680	17.30	0.420	10.70
		101.10	68	10.400	264	10.130	257	0.770	19.60	0.470	11.90
		114.57	77	10.600	269	10.190	259	0.870	22.10	0.530	13.50
		130.94	88	10.840	275	10.265	261	0.990	25.10	0.605	15.40
		148.80	100	11.100	282	10.340	263	1.120	28.40	0.680	17.30
		166.65	112	11.360	289	10.415	265	1.250	31.80	0.755	19.20
12 x 4	304.8 x 101.6	20.80	14	11.910	303	3.970	101	0.230	5.70	0.200	5.10
		23.80	16	11.990	305	3.990	101	0.270	6.70	0.220	5.60
		28.30	19	12.160	309	4.010	102	0.350	8.90	0.240	6.00
		32.70	22	12.310	313	4.030	102	0.430	10.80	0.260	6.60

Viga IPR (Continuación)											
Nominal		Peso		Peralte		Patín				Alma	
				d		Ancho (bf)		Espesor (t _f)		Espesor (t _w)	
Pulgadas (d x bf)	mm (d x bf)	kg/m	lb/ pie	in	mm	in	mm	in	mm	in	mm
12 x 6 1/2	304.8 x 165.1	38.70	26	12.220	310	6.490	165	0.380	9.70	0.230	5.80
		44.60	30	12.340	313	6.520	166	0.440	11.20	0.260	6.60
		52.10	35	12.500	318	6.560	167	0.520	13.20	0.300	7.60
12 x 8	304.8 x 203.2	59.50	40	11.940	303	8.010	203	0.520	13.10	0.300	7.50
		67.00	45	12.060	306	8.050	204	0.580	14.60	0.340	8.50
		74.40	50	12.190	310	8.080	205	0.640	16.30	0.370	9.40
12 x 10	304.8 x 254	78.90	53	12.060	306	10.000	254	0.580	14.60	0.350	8.80
		86.30	58	12.190	310	10.010	254	0.640	16.30	0.360	9.10
12 x 12	304.8 x 304.8	96.70	65	12.120	308	12.000	305	0.610	15.40	0.390	9.90
		107.10	72	12.250	311	12.040	306	0.670	17.00	0.430	10.90
		117.60	79	12.380	314	12.080	307	0.740	18.70	0.470	11.90
		129.45	87	12.530	318	12.125	308	0.810	20.60	0.5150	13.10
		142.90	96	12.710	323	12.160	309	0.900	22.90	0.550	14.00
		157.72	106	12.890	327	12.220	310	0.990	25.10	0.610	15.50
		202.36	136	13.410	341	12.400	315	1.250	31.80	0.790	20.10
		226.17	152	13.710	348	12.480	317	1.400	35.60	0.870	22.10
		252.99	170	14.030	356	12.570	319	1.560	39.60	0.960	24.40
14 x 5	355.6 x 127	282.72	190	14.380	365	12.670	322	1.735	44.10	1.060	26.90
		32.70	22	13.740	349	5.000	127	0.340	8.50	0.230	5.80
14 x 6 3/4	355.6 x 171.4	38.70	26	13.910	353	5.030	128	0.420	10.70	0.260	6.50
		44.60	30	13.840	352	6.730	171	0.390	9.80	0.270	6.90
		50.60	34	13.980	355	6.750	171	0.460	11.60	0.290	7.20
14 x 8	355.6 x 203.2	56.50	38	14.100	358	6.770	172	0.520	13.10	0.310	7.90
		64.00	43	13.660	347	8.000	203	0.530	13.50	0.310	7.70
		71.40	48	13.790	350	8.030	204	0.600	15.10	0.340	8.60
14 x 10	355.6 x 254	78.90	53	13.920	354	8.060	205	0.660	16.80	0.370	9.40
		90.80	61	13.890	353	10.000	254	0.650	16.40	0.380	9.50
		101.20	68	14.040	357	10.040	255	0.720	18.30	0.420	10.50
		110.10	74	14.170	360	10.070	256	0.790	19.90	0.450	11.40
14 x 14 1/2	355.6 x 368.3	122.00	82	14.310	363	10.130	257	0.855	21.70	0.510	13.00
		133.90	90	14.020	356	14.520	369	0.710	18.00	0.440	11.20
		147.30	99	14.160	360	14.570	370	0.780	19.80	0.490	12.30
		162.20	109	14.320	364	14.610	371	0.860	21.80	0.530	13.30
		178.60	120	14.480	368	14.670	373	0.940	23.90	0.590	15.00
14 x 16	355.6 x 406.4	196.40	132	14.660	372	14.730	374	1.030	26.20	0.650	16.40
		215.80	145	14.780	375	15.500	394	1.090	27.70	0.680	17.30
		236.60	159	14.980	380	15.570	395	1.190	30.20	0.750	18.90
		261.90	176	15.220	387	15.650	398	1.310	33.30	0.830	21.10
		287.20	193	15.480	393	15.710	399	1.440	36.60	0.890	22.60
		313.96	211	15.720	399	15.800	401	1.560	39.60	0.980	24.90
		382.41	257	16.380	416	15.995	406	1.890	48.00	1.175	29.80

Viga IPR (Continuación)											
Nominal		Peso		Peralte		Patín				Alma	
				d		Ancho (bf)		Espesor (t _f)		Espesor (t _w)	
Pulgadas (d x bf)	mm (d x bf)	kg/m	lb/pie	in	mm	in	mm	in	mm	in	mm
16 x 5 1/2	406.4 x 139.7	38.70	26	15.690	399	5.500	140	0.350	8.80	0.250	6.40
		46.10	31	15.880	403	5.530	140	0.440	11.20	0.280	7.00
16 x 7	406.4 x 177.8	53.60	36	15.860	403	6.990	177	0.430	10.90	0.300	7.50
		59.50	40	16.010	407	7.000	178	0.510	12.80	0.310	7.70
		67.00	45	16.130	410	7.040	179	0.570	14.40	0.350	8.80
		74.40	50	16.260	413	7.070	180	0.630	16.00	0.380	9.70
		84.80	57	16.430	417	7.120	181	0.720	18.20	0.430	10.90
16 x 10 1/4	406.4 x 260.3	99.70	67	16.330	415	10.240	260	0.670	16.90	0.400	10.00
		114.60	77	16.520	420	10.300	261	0.760	19.30	0.460	11.60
		132.40	89	16.750	425	10.370	263	0.880	22.20	0.530	13.30
		149.00	100	16.970	431	10.425	265	0.985	25.00	0.585	14.90
18 x 6	457.2 x 152.4	52.10	35	17.700	450	6.000	152	0.430	10.80	0.300	7.60
		59.50	40	17.900	455	6.020	153	0.530	13.30	0.320	8.00
		68.40	46	18.060	459	6.060	154	0.610	15.40	0.360	9.10
18 x 7 1/2	457.2 x 190.5	74.40	50	17.990	457	7.500	190	0.570	14.50	0.360	9.00
		81.80	55	18.110	460	7.530	191	0.630	16.00	0.390	9.90
		89.30	60	18.240	463	7.560	192	0.700	17.70	0.420	10.50
		96.70	65	18.350	466	7.590	193	0.750	19.10	0.450	11.40
		105.60	71	18.470	469	7.640	194	0.810	20.60	0.500	12.60
18 x 11	457.2 x 279.4	113.10	76	18.210	463	11.040	280	0.680	17.30	0.430	10.80
		128.00	86	18.390	467	11.090	282	0.770	19.60	0.480	12.20
		144.30	97	18.590	472	11.150	283	0.870	22.10	0.540	13.60
		157.70	106	18.730	476	11.200	284	0.940	23.90	0.590	15.00
		177.10	119	18.970	482	11.270	286	1.060	26.90	0.660	16.60
		193.46	130	19.250	489	11.160	283	1.200	30.50	0.670	17.00
		213.00	143	19.490	495	11.220	285	1.320	33.50	0.730	18.50
		235.00	158	19.720	501	11.300	287	1.440	36.60	0.810	20.60
		260.40	175	20.04	509	11.375	289	1.590	40.40	0.890	22.60
		285.69	192	20.350	517	11.455	291	1.750	44.40	0.960	24.40
21 x 6 1/2	533.4 x 165.1	65.50	44	20.660	525	6.500	165	0.450	11.40	0.350	8.90
		74.40	50	20.830	529	6.530	166	0.540	13.60	0.380	9.70
		84.80	57	21.060	535	6.560	166	0.650	16.50	0.410	10.30
21 x 8 1/4	533.4 x 209.5	92.30	62	20.990	533	8.240	209	0.620	15.60	0.400	10.20
		101.20	68	21.130	537	8.270	210	0.690	17.40	0.430	10.90
		108.60	73	21.240	539	8.295	211	0.740	18.80	0.455	11.60
		123.50	83	21.430	544	8.355	212	0.835	21.20	0.515	13.10
		138.40	93	21.620	549	8.420	214	0.930	23.60	0.580	14.70

Vigas IPR (Continuación)											
Nominal		Peso		Peralte		Patín				Alma	
				d		Ancho (bf)		Espesor (t _f)		Espesor (t _w)	
Pulgadas (d x bf)	mm (d x bf)	kg/m	lb/ pie	in	mm	in	mm	in	mm	in	mm
21 x 12 1/4	533.4 x 311.15	15.03	101	21.360	543	12.290	312	0.800	20.30	0.500	12.70
		165.20	111	21.510	546	12.340	313	0.880	22.20	0.550	14.00
		181.50	122	21.680	551	12.390	315	0.960	24.40	0.600	15.20
21 x 12 1/2	533.4 x 317.5	218.00	147	22.060	560	12.510	318	1.150	29.20	0.720	18.30
24 x 7	609.6 x 177.8	81.80	55	23.570	599	7.010	178	0.510	12.80	0.400	10.00
		92.30	62	23.740	603	7.040	179	0.590	15.00	0.430	10.90
24 x 9	609.6 x 228.6	101.20	68	23.730	603	8.970	228	0.590	14.90	0.420	10.50
		113.10	76	23.930	608	8.990	228	0.680	17.30	0.440	11.20
		125.00	84	24.100	612	9.020	229	0.770	19.60	0.470	11.90
		139.90	94	24.310	617	9.070	230	0.880	22.20	0.520	13.10
		153.30	103	24.530	623	9.000	229	0.980	24.90	0.550	14.00
24 x 12 3/4	609.6 x 323.8	154.80	104	24.060	611	12.750	324	0.750	19.1	0.500	12.70
		174.10	117	24.260	616	12.800	325	0.850	21.60	0.550	14.00
		194.90	131	24.480	622	12.860	327	0.960	24.40	0.610	15.40
		217.20	146	24.740	628	12.900	328	1.090	27.70	0.650	16.50
		241.10	162	25.000	635	12.960	329	1.220	31.00	0.710	17.90
27 x 10	685.8 x 254	125.00	84	26.710	678	9.960	253	0.640	16.30	0.460	11.70
		139.90	94	26.920	684	9.990	254	0.750	18.90	0.490	12.40
		151.80	102	27.090	688	10.020	254	0.830	21.10	0.520	13.10
		169.60	114	27.290	693	10.070	256	0.930	23.60	0.570	14.50
		191.95	129	27.630	702	10.010	254	1.100	27.90	0.610	15.50
27 x 14	685.8 x 355.6	217.00	146	27.380	695	13.965	355	0.975	24.80	0.605	15.40
		239.70	161	27.590	701	14.020	356	1.080	27.40	0.660	16.80
		288.67	194	28.110	714	14.035	356	1.340	34.00	0.750	19.00
		323.00	217	28.430	722	14.115	359	1.500	38.10	0.830	21.10
		350.00	235	28.660	728	14.190	360	1.610	40.90	0.910	23.10
		384.00	258	28.980	736	14.270	362	1.770	45.00	0.980	24.90
30 x 10 1/2	762 x 266.7	133.90	90	29.530	750	10.400	264	0.610	15.50	0.470	11.90
		147.30	99	29.650	753	10.450	265	0.670	17.00	0.520	13.20
		160.70	108	29.830	758	10.480	266	0.760	19.30	0.550	13.80
		172.60	116	30.010	762	10.500	267	0.850	21.60	0.570	14.40
		196.40	132	30.310	770	10.540	268	1.000	25.40	0.610	15.60
30 x 15	762 x 381	257.50	173	30.440	773	14.985	381	1.065	27.10	0.655	16.60
		313.96	211	30.940	786	15.105	384	1.315	33.40	0.775	19.70

Vigas IPR (Continuación)											
Nominal		Peso		Peralte		Patín				Alma	
				d		Ancho (bf)		Espesor (t _f)		Espesor (t _w)	
Pulgadas (d x bf)	mm (d x bf)	kg/m	lb/ pie	in	mm	in	mm	in	mm	in	mm
33 x 11 1/2	838.2 x 292.1	175.60	118	32.86	835	11.480	292	0.740	18.80	0.550	14.00
		193.40	130	33.09	840	11.510	292	0.860	21.70	0.580	14.70
		209.80	141	33.3	846	11.540	293	0.960	24.40	0.610	15.40
		226.20	152	33.49	851	11.570	294	1.060	26.80	0.640	16.10
		251.50	169	33.82	859	11.500	292	1.220	31.00	0.670	17.00
36 x 12	914.4 x 304.8	200.90	135	35.55	903	11.950	304	0.790	20.10	0.600	15.20
		223.20	150	35.85	911	11.980	304	0.940	23.90	0.630	15.90
		238.10	160	36.01	915	12.000	305	1.020	25.90	0.650	16.50
		253.00	170	36.17	919	12.030	306	1.100	27.90	0.680	17.30
		271.00	182	36.33	923	12.075	307	1.180	30.00	0.725	18.40
		289.00	194	36.49	927	12.115	308	1.260	32.00	0.765	19.40
		313.00	210	36.69	932	12.180	309	1.360	34.50	0.830	21.10
40 x 12	1016 x 304.8	345.00	232	37.12	943	12.120	308	1.570	39.90	0.870	22.10
		222.00	149	38.20	970	11.810	300	0.830	21.10	0.630	16.00
		249.00	167	38.59	980	11.810	300	1.025	26.00	0.650	16.50
		272.00	183	38.98	990	11.810	300	1.200	31.00	0.650	16.50
		314.00	211	39.37	1000	11.810	300	1.415	35.90	0.750	19.10
		349.00	235	39.69	1008	11.890	302	1.575	40.00	0.830	21.10
		393.00	264	40.00	1016	11.930	303	1.730	43.90	0.960	24.40

RECOMENDACIONES DE INSTALACIÓN

- Instala topes temporales o cuñas para evitar deslizamientos mientras se alinea la viga.
- Utiliza grúas adecuadas considerando el peso de la viga y el radio de maniobra requerido.
- Asegura las conexiones con tornillos de tensión controlada.

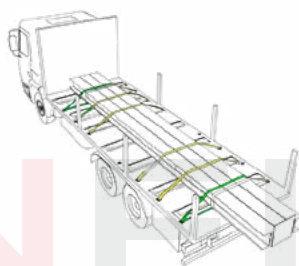
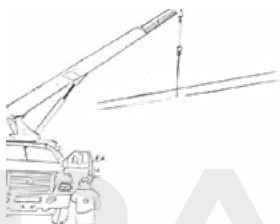
TRANSPORTE Y ALMACENAMIENTO



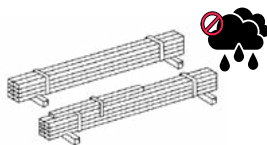
El embarque de las vigas IPR se lleva a cabo de forma cuidadosa. El empaquetado de las piezas se realiza en forma de "H", lo cual garantiza estabilidad y seguridad en el traslado de los paquetes.

Los posibles daños ocasionados al material durante su viaje serán responsabilidad de la empresa que realice la transportación del producto.

Es responsabilidad del cliente verificar la cantidad, dimensiones, peso y estado general de las vigas. En caso de existir alguna anomalía o daños al material, será necesario notificarlo mediante las remisiones del producto con la firma del transportista.



Las vigas IPR deben de estar almacenadas bajo techo. Evita la exposición prolongada del producto a entornos húmedos o salinos.



Este tipo de perfiles deben ser estibados en sistemas de contención tipo rack. En caso de no contar con dicha estructura metálica, por seguridad, no se debe sobrepasar 1 metro de altura.

Para su almacenamiento coloca las vigas IPR en una superficie plana.

En caso de almacenamiento prolongado, es importante mantener la rotación del inventario para evitar el deterioro de las piezas por antigüedad y metodologías de



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