



Largos

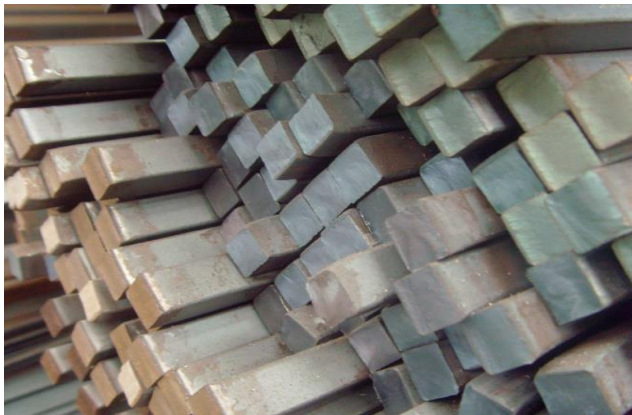
**Ángulos**

Ancho	Espesor Pulgadas	Ancho	Espesor milímetros	Peso kg/m	Peso Kg / 6.1m
3/4	1/8	19.1	3.2	0.88	5.368
	0.109		2.76	1.044	6.368
1	1/8	25.4	3.2	1.19	7.259
	3/16		4.8	1.73	10.553
	1/4		6.3	2.22	13.542
1 1/4	0.109	31.7	2.76	1.32	8.052
	1/8		3.2	1.5	9.15
	3/16		4.8	2.2	13.42
	1/4		6.3	2.86	17.446
1 1/2	0.109	38.1	2.76	1.6	9.76
	1/8		3.2	1.83	11.163
	3/16		4.8	2.68	16.348
	1/4		6.3	3.48	21.228
1 3/4	3/16	44.5	4.8	3.15	19.215
	1/8		3.2	2.46	15.006
2	3/16	50.8	4.8	3.63	22.143
	1/4		6.3	4.75	28.975
	3/8		9.5	6.99	42.639
	3/16		4.8	4.61	28.121
2 1/2	1/4	63.5	6.3	6.1	37.21
	3/8		9.5	8.78	53.558
	3/16		4.8	5.52	33.672
3	1/4	76.2	6.3	7.29	44.469
	5/16		7.9	9.08	55.388
	3/8		9.5	10.72	65.392
	1/2		12.7	13.99	85.339
	1/4		6.3	9.82	59.902
4	5/16	101.6	7.9	12.2	74.42
	3/8		9.5	14.58	88.938
	1/2		12.7	19.05	116.205
5	3/8	127	9.5	18.3	111.63
	1/2		12.7	24.11	147.071
6	3/8	152.4	9.5	22.17	135.237
	1/2		12.7	29.17	177.937
	3/4		19.1	42.71	260.531



**Redondos y Cuadrados**

Medidas			Peso			
Pulgadas	Milésimas	Milímetros	Redondos kg/m	lb/pie	Cuadrados kg/m	lb/pie
12 mm.	0.472	12	/	/	1.14	0.77
3/8	0.375	9.53	0.56	0.38	0.71	0.48
1/2	0.5	12.7	0.99	0.67	1.26	0.85
5/8	0.625	15.88	1.55	1.04	1.98	1.33
3/4	0.75	19.05	2.24	1.5	2.85	1.91
7/8	0.875	22.23	3.04	2.04	/	/
1	1	25.4	3.97	2.67	5.06	3.4
1 1/8	1.125	28.58	5.03	3.38	/	/
1 1/4	1.25	31.75	6.21	4.17	7.91	5.31
1 3/8	1.375	34.93	7.51	5.05	/	/
1 1/2	1.5	38.1	8.94	6.01	11.38	7.65
1 3/4	1.75	44.45	12.17	8.18	/	/
1 7/8	1.875	47.63	13.97	9.39	/	/
2	2	50.8	15.9	10.68	20.24	13.6
2 1/4	2.25	57.15	20.12	13.52	/	/
2 1/2	2.5	63.5	24.84	16.69	31.62	21.25
3	3	76.2	35.76	24.04	45.54	30.6



**Viga IPR**

Descripción	Peso lbs/pie	Peso kg/m	Área cm <sup>2</sup>	Peralte mm	Espesor del alma mm	Patín	
						Ancho mm	Espesor mm
6'' x 4''	9	13.4	17.29	150	4.32	100	5.5
	12	17.9	22.9	153	5.84	102	7.1
	16	23.8	30.58	160	6.6	102	10.3
6'' x 6''	15	22.3	28.58	152	5.84	152	6.6
	20	29.8	37.87	157	6.6	153	9.3
	25	37.2	47.35	162	8.13	154	11.6
8'' x 4''	10	14.9	19.1	200	4.32	100	5.2
	13	19.3	24.77	203	8.54	102	6.5
	15	22.3	28.65	206	6.22	102	8
8'' x 5 1/4''	18	26.8	33.94	207	5.84	133	8.4
	21	31.3	39.74	210	6.35	134	10.2
8'' x 6 1/2''	24	35.7	45.68	201	6.22	165	10.2
	28	41.7	53.23	205	7.24	166	11.8
8'' x 8''	31	46.1	58.9	203	7.24	203	11
	35	52.1	66.45	206	7.87	204	12.6
	40	59.5	75.48	210	9.14	205	14.2
	48	71.4	90.97	216	10.16	206	17.4
	58	86.3	110.32	222	12.95	209	20.6
	67	99.7	127.1	229	14.48	210	23.7
10'' x 4''	12	17.9	22.84	251	4.83	101	5.3
	15	22.3	28.45	254	5.84	102	6.9
	17	25.3	32.19	257	6.1	102	8.4
	19	28.3	36.26	260	6.35	102	10
10'' x 5 3/4''	22	32.7	41.87	258	6.1	146	9.1
	26	38.7	49.1	262	6.6	147	11.2
	30	44.6	57.03	266	7.62	148	13
10'' x 8''	33	49.1	62.65	247	7.37	202	11
	39	58	74.19	252	8	203	13.5
	45	67	85.81	257	8.89	204	15.7
10'' x 10''	49	72.9	92.9	253	8.64	254	14.2
	54	80.4	97.29	256	9.4	255	15.6
	60	89.3	113.55	260	10.67	256	17.3
	68	101.2	129.03	264	11.94	257	19.6
	77	114.6	145.81	269	13.46	259	22.1
	88	131	167.1	275	15.37	261	25.1
	100	148.8	189.68	282	17.27	263	28.4
	112	166.7	212.26	289	19.18	265	31.8
12'' x 4''	14	20.8	26.84	303	5.08	101	5.7
	16	23.8	30.39	305	5.59	101	6.7
	19	28.3	35.94	309	5.97	102	8.9
	22	32.7	41.81	313	6.6	102	10.8
12'' x 6 1/2''	26	38.7	49.35	310	5.84	165	9.7
	30	44.6	56.71	313	6.6	166	11.2
	35	52.1	66.45	318	7.62	167	13.2

**Viga IPR**

Descripción	Peso lbs/pie	Peso kg/m	Área cm <sup>2</sup>	Peralte mm	Espesor del alma mm	Patín	
						Ancho mm	Espesor mm
12'' x 8''	40	59.5	76.13	303	7.49	203	13.1
	45	67	85.16	306	8.51	204	14.6
	50	74.4	94.84	310	9.4	205	16.3
12'' x 10''	53	78.9	100.64	306	8.76	254	14.6
	58	86.3	109.68	310	9.14	254	16.3
12'' x 12''	65	96.7	123.23	308	9.91	305	15.4
	72	107.1	136.13	311	10.92	306	17
	79	117.6	149.68	314	11.94	307	18.7
	87	129.5	165.16	318	13.08	308	20.6
	96	142.9	181.94	323	13.97	309	22.9
	106	157.7	201.29	327	15.49	310	25.1
	120	178.6	227.74	333	18.03	313	28.1
	136	202.4	257.42	341	20.07	315	31.8
12'' x 12 1/2''	152	226.2	288.39	348	22.1	317	35.6
	170	253	322.58	356	24.38	319	39.6
	190	282.8	360	365	26.92	322	44.1
	210	312.5	398.71	374	29.97	325	48.3
	230	342.3	436.77	382	32.64	328	52.6
	252	375	478.06	391	35.43	330	57.2
	279	415.2	528.39	403	38.86	334	62.7
	305	453.9	578.06	415	41.28	336	68.7
336	500	637.42	427	45.09	340	75.1	
14'' x 5''	22	32.7	41.87	349	5.84	127	8.5
	26	38.7	49.61	353	6.48	128	10.7
14'' x 6 3/4''	30	44.6	57.1	352	6.86	171	9.8
	34	50.6	64.52	355	7.24	171	11.6
	38	56.6	72.26	358	7.87	172	13.1
14'' x 8''	43	64	81.29	347	7.75	203	13.5
	48	71.4	90.97	350	8.64	204	15.1
	53	78.9	100.64	354	9.4	205	16.8
14'' x 10''	61	90.8	115.48	353	9.53	254	16.4
	68	101.2	129.03	357	10.54	255	18.3
	74	110.1	140.64	360	11.43	256	19.9
	82	122	155.48	363	12.95	257	21.7
14'' x 14 1/2''	90	133.9	170.97	356	11.18	369	18
	99	147.3	187.74	360	12.32	370	19.8
	109	162.2	206.45	364	13.34	371	21.8
	120	178.6	227.74	368	14.99	373	23.9
	132	196.4	250.32	372	16.38	374	26.2

**Viga IPR**

Descripción	Peso lbs/pie	Peso kg/m	Área cm <sup>2</sup>	Peralte mm	Espesor del alma mm	Patín	
						Ancho mm	Espesor mm
14'' x 16''	145	215.8	275.48	375	17.27	394	27.7
	159	236.6	301.29	380	18.92	395	30.2
	176	261.9	334.19	387	21.08	398	33.3
	193	287.2	366.45	393	22.61	399	36.6
	211	314	400	399	24.89	401	39.6
	233	346.7	441.93	407	27.18	404	43.7
	257	382.5	487.74	416	29.85	406	48
	283	421.1	537.42	425	32.77	409	52.6
	311	462.8	589.68	435	35.81	412	57.4
	342	509	651.61	446	39.12	416	62.7
	370	550.6	703.22	455	42.04	418	67.6
	398	592.3	754.84	465	44.96	421	72.3
	426	634	806.45	474	47.63	424	77.1
	16'' x 5 1/2''	26	38.7	49.55	399	6.35	140
31		46.1	58.84	403	6.99	140	11.2
16'' x 7''	36	53.6	68.39	403	7.49	177	10.9
	40	59.5	76.13	407	7.75	178	12.8
	45	67	85.81	410	8.76	179	14.4
	50	74.4	94.84	413	9.65	180	16
	57	84.8	108.39	417	10.92	181	18.2
	67	99.7	127.1	415	10.03	260	16.9
16'' x 10 1/4''	77	114.6	145.81	420	11.56	261	19.3
	89	132.4	169.03	425	13.34	263	22.2
	100	148.8	189.68	431	14.86	265	25
	35	52.1	66.45	450	7.62	152	10.8
18'' x 6''	40	59.5	76.13	455	8	153	13.3
	46	68.5	87.1	459	9.14	154	15.4
	50	74.4	94.84	457	9.02	190	14.5
18'' x 7 1/2''	55	81.8	104.52	460	9.91	191	16
	60	89.3	113.55	463	10.54	192	17.7
	65	96.7	123.23	466	11.43	193	19.1
	71	105.7	134.19	469	12.57	194	20.6



**Viga IPR**

Descripción	Peso lbs/pie	Peso kg/m	Área cm <sup>2</sup>	Peralte mm	Espesor del alma mm	Patín	
						Ancho mm	Espesor mm
18'' x 11''	76	113.1	143.87	463	10.8	280	17.3
	86	128	163.23	467	12.19	282	19.6
	97	144.4	183.87	472	13.59	283	22.1
	106	157.7	200.64	476	14.99	284	23.9
	119	177.1	226.45	482	16.64	286	26.9
	130	193.5	246.45	489	17.02	283	30.5
	143	212.8	271.61	495	18.54	285	33.5
	158	235.1	298.71	501	20.57	287	36.6
	175	260.4	330.97	509	22.61	289	40.4
	192	285.7	363.87	517	24.38	291	44.5
	211	314	400.64	525	26.92	293	48.5
	234	348.2	443.87	535	29.46	296	53.6
	258	383.9	489.68	545	32.51	299	58.4
	283	421.1	536.77	555	35.56	302	63.5
	311	462.8	590.32	567	38.61	305	69.6
21'' x 6 1/2''	44	65.5	83.87	525	8.89	165	11.4
	50	74.4	94.84	529	9.65	166	13.6
	57	84.8	107.74	535	10.29	166	16.5
21'' x 8 1/4''	62	92.3	118.06	533	10.16	209	15.6
	68	101.2	129.03	537	10.92	210	17.4
	73	108.6	138.71	539	11.56	211	18.8
	83	123.5	156.77	544	13.08	212	21.2
	93	138.4	176.13	549	14.73	214	23.6
21'' x 12 1/4''	101	150.3	192.26	543	12.7	312	20.3
	111	165.2	210.97	546	13.97	313	22.2
	122	181.6	231.61	551	15.24	315	24.4
	132	196.4	250.32	554	16.51	316	26.3
	147	218.8	278.71	560	18.29	318	29.2
	166	247	315.48	571	19.05	315	34.5
	182	270.8	346.45	577	21.08	318	37.6
	201	299.1	381.93	585	23.11	319	41.4
	223	331.9	421.93	593	25.4	322	45.5
	248	369.1	469.68	603	27.94	324	50.5
275	409.2	516.64	617	30.99	327	55.6	
24'' x 7''	55	81.8	104.52	599	10.03	178	12.8
	62	92.3	117.42	603	10.92	179	15
	68	101.2	129.68	603	10.54	228	14.9
24'' x 9''	76	113.1	144.52	608	11.18	228	17.3
	84	125	159.35	612	11.94	229	19.6
	94	139.9	178.71	617	13.08	230	22.2
	103	153.3	195.48	623	13.97	229	24.9

**Viga IPR**

Descripción	Peso lbs/pie	Peso kg/m	Área cm <sup>2</sup>	Peralte mm	Espesor del alma mm	Patín	
						Ancho mm	Espesor mm
24'' x 12 3/4''	104	154.8	197.42	611	12.7	324	19.1
	117	174.1	221.94	616	13.97	325	21.6
	131	194.9	248.39	622	15.37	327	24.4
	146	217.3	277.42	628	16.51	328	27.7
	162	241.1	307.74	635	17.91	329	31
	176	261.9	333.55	641	19.05	327	34
	192	285.7	363.23	647	20.57	329	37.1
	207	308	391.61	653	22.1	330	39.9
	229	340.8	433.55	661	24.38	333	43.9
	250	372	474.19	669	26.42	335	48
	279	415.2	529.03	679	29.46	338	53.1
	306	455.4	579.35	689	32	340	57.9
	335	498.5	634.84	699	35.05	343	63
	370	550.6	696.77	711	38.61	347	69.1
27'' x 10''	84	125	160	678	11.68	253	16.3
	94	139.9	178.71	684	12.45	254	18.9
	102	151.8	193.55	688	13.08	254	21.1
	114	169.7	216.13	693	14.48	256	23.6
	129	192	243.87	702	15.49	254	27.9
27'' x 14''	146	217.3	276.77	695	15.37	355	24.8
	161	239.6	305.81	701	16.76	356	27.4
	178	264.9	337.42	706	18.42	358	30.2
	194	288.7	367.74	714	19.05	356	34
	217	322.9	411.61	722	21.08	359	38.1
	235	349.7	445.81	728	23.11	360	40.9
	258	383.9	488.39	736	24.89	362	45
	307	456.9	581.93	752	29.46	367	53.1
	336	500	636.77	762	32	370	57.9
	368	547.6	697.42	772	35.05	372	63
30'' x 10 1/2''	90	133.9	170.32	750	11.94	264	15.5
	99	147.3	187.74	753	13.21	265	17
	108	160.7	204.52	758	13.84	266	19.3
	116	172.6	220.64	762	14.35	267	21.6
	124	184.5	235.48	766	14.86	267	23.6
	132	196.4	250.97	770	15.62	268	25.4
	148	220.2	280.64	779	16.51	266	30
	173	257.5	327.74	773	16.64	381	27.1
30'' x 15''	191	284.2	361.93	779	18.03	382	30.1
	211	314	400	786	19.69	384	33.4
	235	349.7	445.16	795	21.08	382	38.1
	261	388.4	494.84	803	23.62	385	41.9
	292	434.5	552.9	813	25.91	387	47
	326	485.1	617.42	823	28.96	390	52.1
	357	531.3	676.13	833	31.5	393	56.9
	391	581.9	741.93	843	34.54	396	62



**Viga IPR**

Descripción	Peso lbs/pie	Peso kg/m	Área cm <sup>2</sup>	Peralte mm	Espesor del alma mm	Patín	
						Ancho mm	Espesor mm
33'' x 11 1/2''	118	175.6	223.87	835	13.97	292	18.8
	130	193.5	247.1	840	14.73	292	21.7
	141	209.8	268.39	846	15.37	293	24.4
	152	226.2	288.39	851	16.13	294	26.8
	169	251.5	319.35	859	17.02	292	31
33'' x 15 3/4''	201	299.1	381.29	855	18.16	400	29.2
	221	328.9	419.35	862	19.69	401	32.4
	241	358.6	457.42	868	21.08	403	35.6
	263	391.4	499.35	877	22.1	401	39.9
	291	433.1	552.26	885	24.38	404	43.9
	318	473.2	603.22	893	26.42	406	48
	354	526.8	671.61	903	29.46	409	53.1
	387	575.9	735.48	913	32	411	57.9
36'' x 12''	135	200.9	256.13	903	15.24	304	20.1
	150	223.2	285.16	911	15.88	304	23.9
	160	238.1	303.23	915	16.51	305	25.9
	170	253	322.58	919	17.27	306	27.9
	182	270.8	345.81	923	18.42	307	30
	194	288.7	367.74	927	19.43	308	32
	210	312.5	398.71	932	21.08	309	34.5
	232	345.3	439.35	943	22.1	308	39.9
	256	381	486.45	951	24.38	310	43.9
36'' x 16 1/2''	231	343.8	441.93	927	19.3	418	32
	247	367.6	470.32	931	20.32	419	34.3
	262	389.9	499.35	936	21.34	420	36.6
	282	419.7	538.06	943	22.48	422	39.9
	302	449.4	576.13	948	24	423	42.7
	330	491.1	628.39	957	25.91	422	47
	361	537.2	687.1	965	28.45	425	51.1
	395	587.8	757.42	976	30.99	427	55.9
	441	656.3	840	987	34.54	431	62
40'' x 12''	149	221.7	282.58	970	16	300	21.1
	167	248.5	316.77	980	16.51	300	26
	183	272.3	346.45	990	16.51	300	30.5
	211	314	400	1000	19.05	300	35.9
	235	349.7	444.52	1008	21.08	302	40
	264	392.9	500.64	1016	24.38	303	43.9
	294	437.5	556.13	1026	26.92	305	49
	327	486.6	618.71	1036	29.97	308	54.1

**Viga IPR**

Descripción	Peso lbs/pie	Peso kg/m	Área cm <sup>2</sup>	Peralte mm	Espesor del alma mm	Patín	
						Ancho mm	Espesor mm
40'' x 16''	199	296.1	376.77	982	16.51	400	27.1
	215	320	408.39	990	16.51	400	31
	249	370.6	472.9	1000	19.05	400	36.1
	277	412.2	524.52	1008	21.08	402	40
	297	442	563.87	1012	23.62	402	41.9
	324	482.2	614.84	1020	25.4	404	46
	362	538.7	690.32	1030	28.45	407	51.1
	372	553.6	705.81	1032	29.46	408	51.9
	397	590.8	754.84	1040	30.99	409	55.9
	431	641.4	817.42	1048	34.04	412	59.9
44'' x 16''	230	342.3	438.06	1090	18.03	400	31
	262	389.9	498.06	1100	19.94	400	35.9
	290	431.6	553.55	1108	21.97	402	40
	335	498.5	636.77	1118	26.04	405	45

**Viga IPS.**

Peralte		Peso kg/m	Área cm <sup>2</sup>	Patín		Alma Espesor mm
mm.	pulgadas			Ancho mm	Espesor mm	
76.2	3	8.48	10.52	59	6.6	4.3
101.6	4	11.46	14.26	67.64	7.44	4.9
127	5	14.88	18.52	76.3	8.28	5.44
152.4	6	18.6	23.29	84.63	9.12	5.89
203.2	8	27.38	34.9	101.62	10.82	6.88

**Canal CPS**

Peralte		Patín mm	Peso		Área cm <sup>2</sup>	Espesores Alma mm.	Patín mm.
Pulgadas	mm.		kg/m	kg/pza.			
3'' L	76.2	35.81	5.21	63.56	6.68	3.17	6.45
3''	76.2	35.81	6.1	74.42	7.68	4.32	6.93
4'' L	101.6	40.23	6.7	81.74	8.54	4.42	5.59
4''	101.6	40.23	8.04	98.08	10	4.67	7.52
6'' L	152.2	48.77	12.2	148.84	15.35	5.08	8.71
6'' SP	152.2	51.66	15.62	190.56	19.81	7.98	8.71
6'' P	152.2	54.79	19.34	235.94	24.71	11.1	8.71
8'' L	203.2	57.4	17.11	208.74	21.81	5.6	9.91
8'' SP	203.2	59.51	20.46	249.61	26.06	7.7	9.91
8'' P	203.2	64.19	27.9	340.38	35.55	12.37	9.91
10''	254	66.04	22.8	278.16	28.97	6.1	11.07
10''	254	69.57	29.8	363.56	37.94	9.63	11.07
10''	254	73.3	37.2	453.84	47.42	13.36	11.07
10''	254	77.04	44.7	545.34	56.9	17.09	11.07
12''	304.8	74.73	30.8	375.76	39.29	7.16	12.72
12''	304.8	77.39	37.2	453.84	47.42	9.83	12.72
12''	304.8	80.52	44.7	545.34	56.9	12.95	12.72

**Soleras**

Pulgadas		Milímetros		kg/m
1/8 x	01-feb	3.2 x	12.7	0.32
	05-ago		15.9	0.39
	03-abr		19.1	0.48
	1		25.4	0.63
	1 1/4		31.7	0.79
	1 1/2		38.1	0.95
	2		50.8	1.27
	2 1/2		63.5	1.59
	3		76.2	1.9
3/16 x	01-feb	4.8 x	12.7	0.47
	05-ago		15.9	0.59
	03-abr		19.1	0.71
	1		25.4	0.95
	1 1/4		31.7	1.18
	1 1/2		38.1	1.42
	2		50.8	1.9
	2 1/2		63.5	2.37
	3		76.2	2.85
1/4 x	01-feb	6.3 x	12.7	0.63
	03-abr		19.1	0.95
	1		25.4	1.27
	1 1/4		31.7	1.52
	1 1/2		38.1	1.9
	2		50.8	2.53
	2 1/2		63.5	3.16
	3		76.2	3.79
	4		101.6	5.06
	5		127	6.33
	6		152.4	7.59
5/16 x	1 1/2	7.9 x	38.1	2.37
	2		50.8	3.16
	2 1/2		63.5	3.95
	3		76.2	4.75
	4		101.6	6.33
	5		127	7.91
	6		152.4	9.49
3/8 x	1	9.5 x	25.4	1.89
	1 1/4		31.7	2.37
	1 1/2		38.1	2.85
3/8 x	2	9.5 x	50.8	3.8
	2 1/2		63.5	4.75
	3		76.2	5.69
	4		101.6	7.59
	5		127	9.49
	6		152.4	11.39
	8		203.2	15.4



**Soleras**

Pulgadas	Milímetros	kg/m	
1/2 x	1	25.4	2.53
	1 1/4	31.7	3.16
	1 1/2	38.1	3.8
	2	50.8	5.06
	2 1/2	63.5	6.33
	3	76.2	7.59
	4	101.6	10.13
	5	127	12.65
	6	152.4	15.19
5/8 x	8	203.2	20.58
	1 1/2	38.1	4.74
	2	50.8	6.33
	2 1/2	63.5	7.91
	3	76.2	9.49
	4	101.6	12.65
	5	127	15.82
	6	152.4	18.99
3/4 x	8	203.2	25.33
	1 1/2	38.1	5.7
	2	50.8	7.59
	2 1/2	63.5	9.49
	3	76.2	11.39
	4	101.6	15.19
	5	127	19
1 x	6	152.4	22.79
	8	203.2	30.43
	2	50.8	10.12
	2 1/2	63.5	12.66
	3	76.2	15.19
	4	101.6	20.25
1 x	5	127	25.32
	6	152.4	30.38

