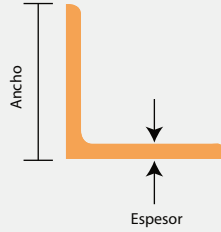


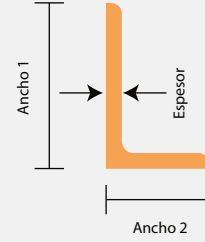


PERFIL ESTRUTURAL



ÁNGULOS LADOS IGUALES

Ancho	Espesor	Ancho	Espesor	Peso
pulgadas		milímetros		kg./m.
3/4	1/8	19.1	3.2	0.880
1	0.109	25.4	2.7	1.044
	1/8		3.2	1.190
	3/16		4.8	1.730
	1/4		6.3	2.220
1 1/4	0.109	31.7	2.7	1.320
	1/8		3.2	1.500
	3/16		4.8	2.200
1 1/2	1/4	38.1	6.3	2.860
	0.109		2.7	1.600
	1/8		3.2	1.830
	3/16		4.8	2.680
1 3/4	1/4	44.5	6.3	3.480
	3/16		4.8	3.150
	1/8		3.2	2.460
	3/8		9.5	6.990
2	3/8	50.8	9.5	6.990
	1/4		6.3	4.750
	3/16		4.8	3.630
	1/8		3.2	2.460
2 1/2	3/8	63.5	9.5	8.780
	1/2		12.7	13.990
	5/16		7.9	7.710
	1/4		6.3	6.100
3	3/8	76.2	9.5	10.720
	1/2		12.7	13.990
	5/16		7.9	9.080
	1/4		6.3	7.290
	3/16		4.8	5.520
4	1/2	101.6	12.7	19.050
	3/8		9.5	14.580
	5/16		7.9	12.200
5	1/2	127	12.7	24.110
	3/8		9.5	18.300
6	3/4	152.4	19.1	42.710
	1/2		12.7	29.170
	3/8		9.5	22.170

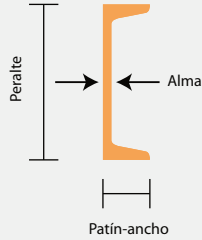


ÁNGULOS LADOS DESIGUALES

Ancho 1	Ancho 2	Espesor	Ancho 1	Ancho 2	Espesor	Peso
pulgadas			milímetros			kg./m.
2	1 1/2	3/16	50.80	38.10	4.76	3.15
2	1 1/2	1/4	50.80	38.10	6.35	4.11
3	2	3/16	76.20	50.80	6.35	4.60
3	2	1/4	76.20	50.80	7.94	6.10
3	2	5/16	76.20	50.80	9.53	7.40
3	2	3/8	76.20	50.80	12.70	8.80
3	2 1/2	1/4	76.20	63.50	6.35	6.70
3	2 1/2	5/16	76.20	63.50	7.94	8.30
3	2 1/2	3/8	76.20	63.50	15.24	9.80
3	2 1/2	1/2	76.20	63.50	12.70	12.60
3 1/2	2 1/2	1/4	88.90	63.50	6.35	7.30
3 1/2	2 1/2	5/16	88.90	63.50	7.94	9.00
3 1/2	2 1/2	3/8	88.90	63.50	9.53	10.70
3 1/2	3	1/4	88.90	76.20	6.35	8.53
3 1/2	3	5/16	88.90	76.20	7.94	9.72
3 1/2	3	3/8	88.90	76.20	9.53	11.65
3 1/2	3	1/2	88.90	76.20	12.70	15.10
4	3	1/4	101.60	76.20	6.35	8.60
4	3	5/16	101.60	76.20	7.94	10.70
4	3	3/8	101.60	76.20	9.53	12.60
4	3	1/2	101.60	76.20	12.70	16.40
4	3 1/2	1/4	101.60	88.90	6.35	9.20
4	3 1/2	5/16	101.60	88.90	7.94	11.40
4	3 1/2	3/8	101.60	88.90	9.53	13.50
4	3 1/2	7/16	101.60	88.90	11.11	15.70
4	3 1/2	1/2	101.60	88.90	12.70	17.60
5	3	1/4	127.00	76.20	6.35	9.80
5	3	5/16	127.00	76.20	7.94	12.10
5	3	3/8	127.00	76.20	9.53	14.50
5	3	7/16	127.00	76.20	11.11	16.70
5	3	1/2	127.00	76.20	12.70	19.00
5	3	5/8	127.00	76.20	15.88	23.40
5	3 1/2	1/4	127.00	88.90	6.35	10.40
5	3 1/2	5/16	127.00	88.90	7.94	12.90
5	3 1/2	3/8	127.00	88.90	9.53	15.40
5	3 1/2	1/2	127.00	88.90	12.70	20.20
6	3 1/2	5/16	152.40	88.90	7.94	14.50
6	3 1/2	3/8	152.40	88.90	9.53	17.30
6	3 1/2	1/2	152.40	88.90	12.70	22.70
6	4	5/16	152.40	101.60	7.94	15.31
6	4	3/8	152.40	101.60	9.53	18.30
6	4	1/2	152.40	101.60	12.70	24.11
6	4	5/8	152.40	101.60	15.88	29.76
6	4	3/4	152.40	101.60	19.05	35.12
7	4	3/8	177.80	101.60	9.53	20.20
7	4	1/4	177.80	101.60	6.35	26.50
7	4	3/4	177.80	101.60	19.05	38.80
8	4	1/2	203.20	101.60	12.70	29.00
8	4	3/4	203.20	101.60	19.05	42.50
8	4	1	203.20	101.60	25.40	55.40
8	6	1/2	203.20	152.40	12.70	34.10
8	6	5/8	203.20	152.40	15.88	42.34
8	6	3/4	203.20	152.40	19.05	50.33
8	6	7/8	203.20	152.40	22.23	58.16
8	6	1	203.20	152.40	25.40	65.84

CANAL CPS

Peralte		Peso kg./m.	Espesor alma		Ancho Patín
mm.	pulgadas		mm.	mm.	mm.
76.2	3	6.10	4.30	35.80	
101.6	4	8.04	4.80	40.20	
152.4	6	12.20	5.10	48.70	
	6	15.63	8.00	52.00	
	6	19.35	11.00	55.00	
203.2	8	17.11	5.60	57.40	
	8	20.46	8.00	60.00	
	8	27.90	12.00	64.00	
254	10	22.80	6.10	66.00	
	10	29.80	10.00	69.00	
	10	37.20	13.36	73.30	
	10	44.70	17.09	77.04	
304.8	12	30.80	7.16	74.73	
	12	37.20	9.83	77.39	
	12	44.70	12.95	80.52	



REDONDOS Y CUADRADOS

Pulgadas	mm.	Redondos (kg./m.)	Cuadrados (kg./m.)
3/8"	9.5	0.56	0.71
15/32"	12.0	-	1.20
1/2"	12.7	1.00	1.27
5/8"	15.9	1.55	1.98
3/4"	19.0	2.24	2.85
7/8"	22.2	3.04	-
1"	25.4	3.97	5.06
1 1/8"	28.6	5.03	-
1 1/4"	31.7	6.21	-
1 1/2"	38.1	8.94	11.39
1 3/4"	44.4	12.17	-
2"	50.8	15.90	20.24
2 1/2"	63.5	24.83	-



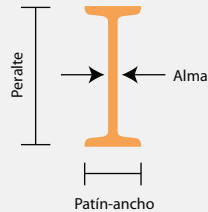
Redondo



Cuadrado

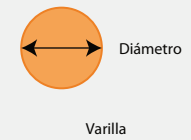
VIGA IPS

Peralte		Peso kg./m.	Patín		Alma
mm.	pulgadas		Ancho	Espesor	Espesor
			mm.	mm.	mm.
76	3.0	8.48	59.0	6.6	4.3
102	4.0	11.46	68.0	7.4	4.8
127	5.0	14.88	76.0	8.3	5.3
152	6.0	18.60	85.0	9.1	5.8
203	8.0	27.38	102.0	10.8	6.9



VARILLA CORRUGADA

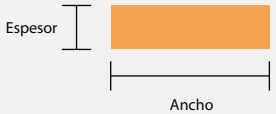
No. designación	Dimensiones nominales			
	Calibre		Peso Nominal	
	pulgadas	mm.	kg./m.	lb./pie
3	3/8	9.50	0.560	0.376
4	1/2	12.70	0.994	0.668
5	5/8	15.90	1.552	1.043
6	3/4	19.10	2.235	1.502
8	1	25.40	3.973	2.670
10	1 1/4	31.70	6.225	4.303
12	1 1/2	38.10	8.938	5.988



Varilla



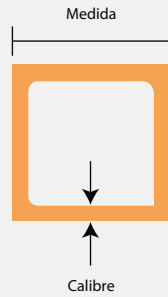
SOLERA											
pulgadas		milímetros		kg./m.	pulgadas		milímetros		kg./m.		
1/8 x	1/2	3.2 x	12.7	0.32	3/8 x	2	9.5 x	50.8	3.80		
	5/8		15.9	0.39		2 1/2		63.5	4.75		
	3/4		19.1	0.48		3		76.2	5.69		
	1		25.4	0.63		4		101.6	7.59		
	1 1/4		31.7	0.79		5		127.0	9.49		
	1 1/2		38.1	0.95		6		152.4	11.39		
	2		50.8	1.27		8		203.2	15.40		
	2 1/2		63.5	1.59		1		25.4	2.53		
	3		76.2	1.90		1 1/4		31.7	3.16		
3/16 x	1/2	4.8 x	12.7	0.47	1/2 x	1 1/2	12.7 x	38.1	3.80		
	5/8		15.9	0.59		2		50.8	5.06		
	3/4		19.1	0.71		2 1/2		63.5	6.33		
	1		25.4	0.95		3		76.2	7.59		
	1 1/4		31.7	1.18		4		101.6	10.13		
	1 1/2		38.1	1.42		5		127.0	12.65		
	2		50.8	1.90		6		152.4	15.19		
	2 1/2		63.5	2.37		8		203.2	20.58		
	3		76.2	2.85		1 1/2		38.1	4.74		
1/4 x	1/2	6.3 x	12.7	0.63	5/8 x	2	15.9 x	50.8	6.33		
	3/4		19.1	0.95		2 1/2		63.5	7.91		
	1		25.4	1.27		3		76.2	9.49		
	1 1/4		31.7	1.52		4		101.6	12.65		
	1 1/2		38.1	1.90		5		127.0	15.82		
	2		50.8	2.53		6		152.4	18.99		
	2 1/2		63.5	3.16		8		203.2	25.33		
	3		76.2	3.79		1 1/2		38.1	5.70		
	4		101.6	5.06		2		50.8	7.59		
	5		127.0	6.33		2 1/2		63.5	9.49		
	6		152.4	7.59		3		76.2	11.39		
5/16 x	1 1/2	7.9 x	38.1	2.37	3/4 x	4	19.1 x	101.6	15.19		
	2		50.8	3.16		5		127.0	19.00		
	2 1/2		63.5	3.95		6		152.4	22.79		
	3		76.2	4.75		8		203.2	30.43		
	4		101.6	6.33		1 x		2	25.4 x	50.8	10.12
	5		127.0	7.91				2 1/2		63.5	12.66
	6		152.4	9.49				3		76.2	15.19
3/8 x	1	9.5 x	25.4	1.89		4		101.6	20.25		
	1 1/4		31.7	2.37		5		127.0	25.32		
	1 1/2		38.1	2.85		6		152.4	30.38		





PERFIL TUBULAR (PTR)

Dimensiones Exteriores		Calibre	Color	Espesor		Peso kg/m.	
in.	mm.			in.	mm.		
1" x 1"	25 x 25	14	Azul	0.0747	1.890	1.44	
			Verde	0.1046	2.660	1.87	
			Rojo	0.1345	3.420	2.27	
1 1/4" x 1 1/4"	32 x 32	14	Azul	0.0747	1.890	1.78	
1 1/2" x 1 1/2"	38 x 38	14	Azul	0.0747	1.890	2.18	
			Blanco	0.1046	2.660	2.96	
			Verde	0.1196	3.040	3.33	
2" x 2"	51 x 51	11	Rojo	0.1495	3.800	4.02	
			14	Azul	0.0747	1.890	2.95
			12	Blanco	0.1046	2.660	4.05
2 1/2" x 2 1/2"	64 x 64	11	Verde	0.1196	3.040	4.55	
			9	Rojo	0.1495	3.800	5.56
			14	Azul	0.0747	1.890	3.69
3" x 3"	76 x 76	9	Verde	0.1495	3.800	7.13	
			7	Rojo	0.1793	4.550	8.37
			14	Azul	0.0747	1.890	4.59
3 1/2" x 3 1/2"	89 x 89	11	Blanco	0.1196	3.040	7.09	
			9	Verde	0.1495	3.800	8.72
			7	Rojo	0.1793	4.550	10.28
3" x 2"	76 x 51	14	Azul	0.0747	1.890	5.27	
			11	Blanco	0.1196	3.040	8.34
			9	Verde	0.1495	3.800	10.28
4" x 2"	102 x 51	7	Rojo	0.1793	4.550	12.16	
			14	Azul	0.0747	1.890	3.69
			11	Blanco	0.1196	3.040	5.82
4" x 3"	102 x 76	9	Verde	0.1495	3.800	7.13	
			7	Rojo	0.1793	4.550	8.37
			14	Azul	0.0747	1.890	3.69
4" x 4"	102 x 102	11	Blanco	0.1196	3.040	7.09	
			9	Verde	0.1495	3.800	8.72
			7	Rojo	0.1793	4.550	10.28



CANAL MONTEN-POLÍN

Peralte	Largo m.	Calibre	kg./m.
4" x 2"	6	14	3.44
4" x 2"	6	12	4.73
6" x 2"	6	14	4.21
6" x 2"	6	12	5.82
6" x 2"	6	10	7.38
8" x 2 3/4"	8	14	5.57
8" x 2 3/4"	8	12	7.72
8" x 2 3/4"	8	10	9.82
10" x 2 3/4"	10	14	6.34
10" x 2 3/4"	10	12	8.80
10" x 2 3/4"	10	10	11.22
12" x 3 1/2"	12	14	7.59
12" x 3 1/2"	12	12	10.55
12" x 3 1/2"	12	10	13.47

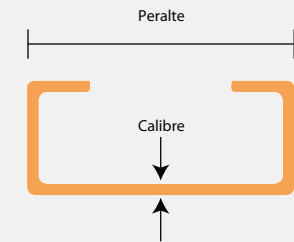
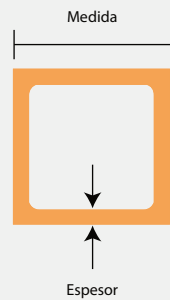


TABLA DE PERFILES HSS

Medidas	Kilogramos* por pieza de 12.20 m.								
	C-7	C-11	C-8	3/16	1/4	5/16	3/8	1/2	5/8
2 x 2		55	70						
3 x 3				124	160	---	---	---	---
4 x 2	120			124					
4 x 4	165			171	222	270	314		
4 x 6				217	284				
4 x 8				264	345		499		
4 x 10					407		592		
4 x 12					469	578	685		
6 x 6				264	345	424	499	640	768
6 x 8					406		592		
8 x 8				356	469	578	685	888	1078
8 x 12					593	733	870	1135	
8 x 16				---			1056	1382	
10 x 10					593	733	870	1135	1385
10 x 14				---		888	1056		
12 x 12				---	716	888	1056	1382	1694
12 x 16				---	---			1630	
14 x 14				---	---	1042	1241	1630	2003
16 x 16				---	---		1427	1887	2312



VIGA IPR

Descripción	Peso kg./m.	Peso lbs./pie	Patín		Espesor del alma mm.
			Ancho	Espesor	
			mm.	mm.	
6" x 4" 152.4 x 101.6	13.40	9.00	100.1	5.50	3.80
	17.90	12.00	102.0	7.10	4.30
8" x 4" 203.2 x 101.6	14.90	10.00	100.0	5.20	4.30
	19.40	13.00	102.0	6.50	5.80
8" x 5 1/4" 203.2 x 133.4	22.40	15.00	102.0	8.00	6.20
	26.80	18.00	133.3	8.40	5.80
10" x 4" 254.0 x 101.6	31.30	21.00	133.8	10.20	6.30
	17.90	12.00	100.0	5.20	4.60
10" x 5 3/4" 254.0 x 146.0	22.40	15.00	102.0	6.80	5.80
	25.50	17.00	102.0	8.40	6.10
10" x 5 3/4" 254.0 x 146.0	28.30	19.00	102.0	10.00	6.40
	32.80	22.00	146.1	9.10	6.10
12" x 4" 304.8 x 101.6	38.70	26.00	146.2	11.20	6.60
	44.70	30.00	147.2	12.90	7.60
12" x 4" 304.8 x 101.6	20.90	14.00	100.0	5.70	5.10
	23.80	16.00	101.3	6.70	5.60
12" x 6 1/2" 304.8 x 165.10	28.30	19.00	102.0	8.90	6.10
	32.80	22.00	102.0	10.80	6.60
12" x 6 1/2" 304.8 x 165.10	38.70	26.00	164.8	9.70	5.80
	44.70	30.00	165.6	11.20	6.60
12" x 8" 304.8 x 203.2	52.10	35.00	166.6	13.20	7.60
	59.60	40.00	203.0	13.10	7.50
14" x 6 3/4" 355.6 x 171.4	67.00	45.00	204.0	14.60	8.50
	74.40	50.00	205.0	16.30	9.40
14" x 6 3/4" 355.6 x 171.4	44.70	30.00	171.0	9.70	6.90
	50.60	34.00	171.0	11.50	7.30
14" x 8" 355.6 x 203.2	56.60	38.00	172.0	13.00	7.90
	64.10	43.00	203.0	13.40	7.80
16" x 7" 406.4 x 177.8	71.50	48.00	204.0	15.10	8.60
	79.00	53.00	205.0	16.70	9.40
18" x 7 1/2" 457.2 x 190.5	53.60	36.00	177.0	10.90	7.60
	59.60	40.00	178.0	12.70	7.80
18" x 7 1/2" 457.2 x 190.5	67.00	45.00	179.0	14.30	8.80
	74.40	50.00	180.0	15.90	9.60
18" x 7 1/2" 457.2 x 190.5	74.41	50.00	190.4	14.48	9.02
	81.85	55.00	191.3	16.00	9.91
18" x 11" 457.2 x 279.4	89.29	60.00	191.9	17.65	10.54
	96.70	65.00	192.8	19.50	11.40
24" x 7" 609.6 x 177.8	105.70	71.00	193.9	20.57	12.57
	113.10	76.00	280.3	17.30	10.80
24" x 9" 609.6 x 228.6	128.00	86.00	281.7	19.60	12.20
	144.30	97.00	283.1	22.10	13.60
24" x 9" 609.6 x 228.6	157.70	106.00	284.5	23.90	14.90
	177.10	119.00	286.1	26.90	16.60
24" x 7" 609.6 x 177.8	82.00	55.00	180.0	12.80	10.00
	92.00	62.00	180.0	15.00	10.90
24" x 9" 609.6 x 228.6	101.00	68.00	230.0	14.90	10.50
	113.00	76.00	230.0	17.30	11.20
	125.00	84.00	230.0	19.60	11.90

