

MIROMINA

ACERO DE CALIDAD

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Aceros Miromina

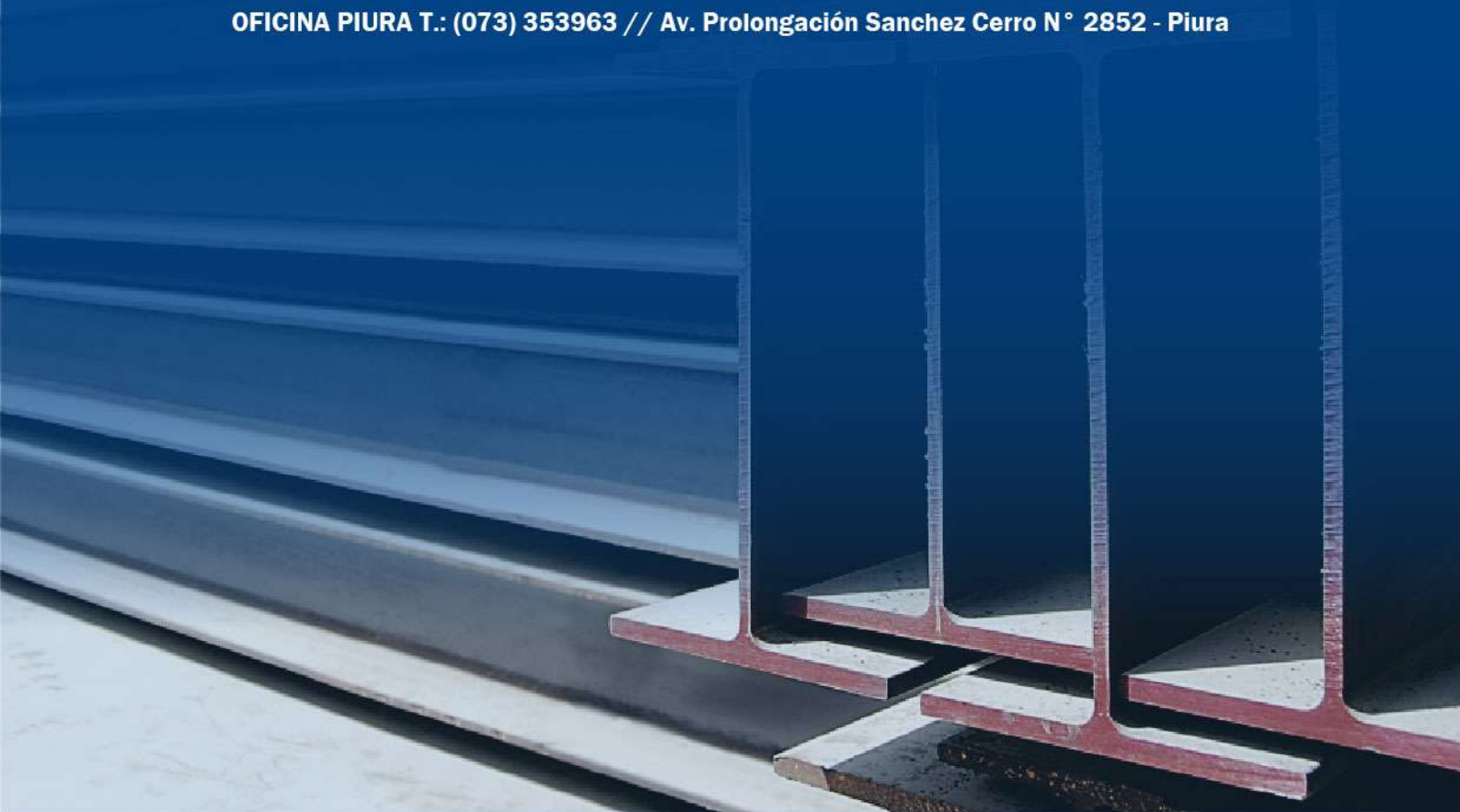


51 949 651 200

OFICINA PRINCIPAL T.: (511) 512 3376 // Av. Los Ingenieros 154, Ate - Lima

ALMACEN LIMA : Calle los Archipelagos Mz. "B", Lt. 24, Lurigancho - Lima

OFICINA PIURA T.: (073) 353963 // Av. Prolongación Sanchez Cerro N° 2852 - Piura



Vigas H

Vigas H

ASTM A36/ASTM A572 GR 50/A992

CARACTERÍSTICAS:

Perfil de acero laminado en caliente, de sección transversal en forme de "H", aleado con Niobio y Vanadio como afinadores de grano.

NORMA TÉCNICA:

ASTM A36/A36M
ASTM A572/ASTM A992

Tolerancias dimensionales: ASTM A6/A6M

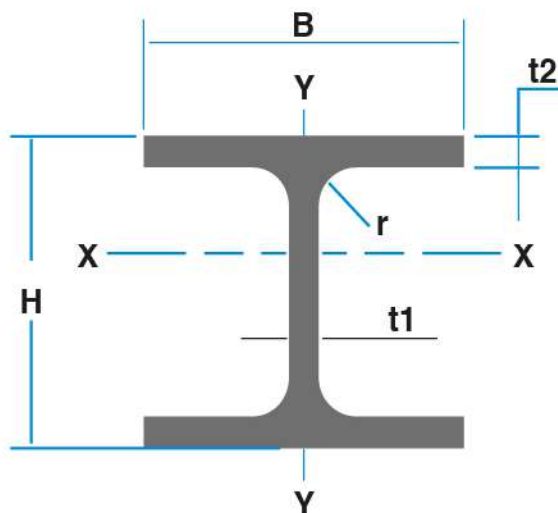
PRESENTACIÓN: Longitudes de 20', 30' y 40'

USO: Estructuras metálicas para edificios, puentes, equipos y estructuras para plantas industriales. Elementos estructurales(vigas, columnas, etc.)

COMPOSICIÓN QUÍMICA

Componente	ASTM A36	ASTM A572 Gr50	ASTM A992
Carbono (%) máx.	0.26	0.23	0.25
Manganeso (%) máx.	-	1.35	1.5
Fósforo (%) máx.	0.04	0.04	0.035
Azufre (%) máx.	0.05	0.05	0.045
Silicio (%) máx.	0.4	0.4	0.4
Vanadio (%) máx.	-	0.01 - 0.15	0.15
Niobio (%) máx.	-	0.005 - 0.05	0.05
Cromo (%) máx.	-	-	0.45
Níquel (%)máx.	-	-	0.45

H = Altura de la viga I = Momento de Inercia
B = Ancho del ala



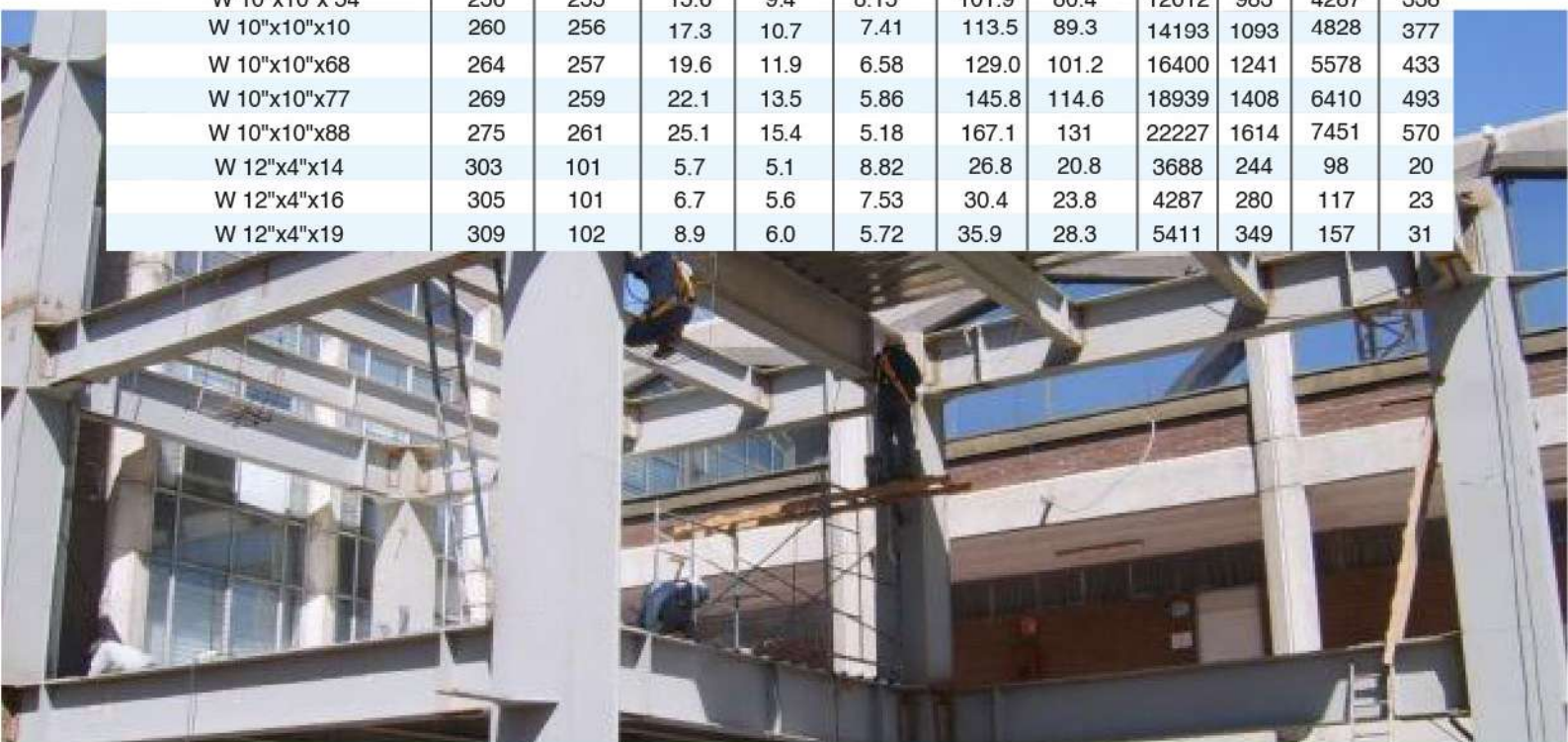
PROPIEDADES MECÁNICAS	ASTM A36		ASTM A576 Gr 50		ASTM 992	
	(kg/cm ²)	(MPa)	(kg/cm ²)	(MPa)	(kg/cm ²)	(MPa)
Límite de Fluencia (mín.)	2530	250	3500	345	3570	345
Resistencia a la Tracción	4100	402	4600	450	4590	450



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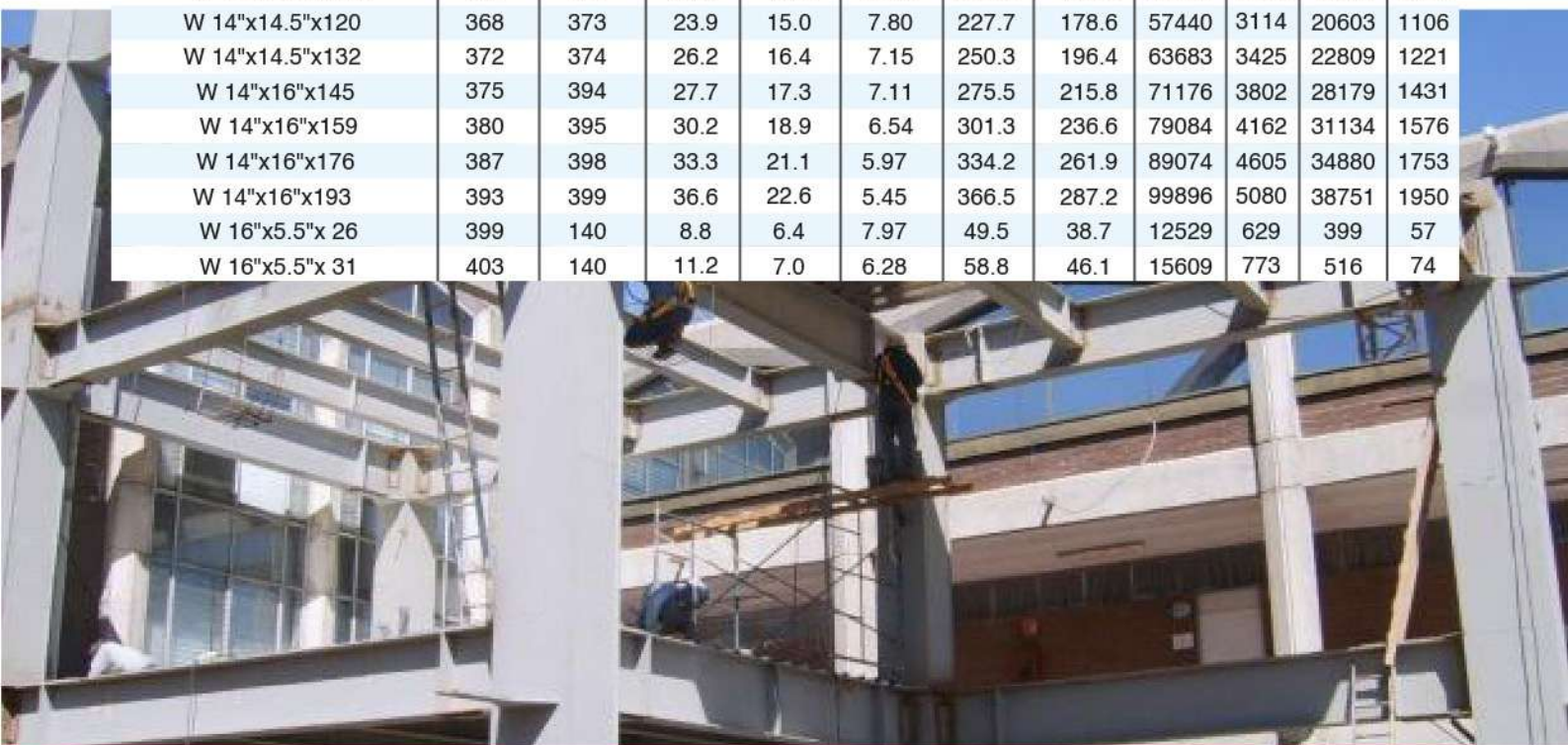
Designación Nominal (H x B x lb/pie)	Dimensiones				Relación bf 2tf	Area Bruta (Ag) (cm ²)	Peso Kg/m	X - X		Y - Y	
	H	B	T1	T2				Ix	Sx	Iy	Sy
	(mm)	(mm)	(mm)	(mm)				cm4	cm3	cm4	cm3
W 4"x4"x13	106	103	8.8	7.1	5.88	24.7	19.3	470	90	161	31
W 6"x4"x9	150	100	5.5	4.3	9.16	17.3	13.4	683	91	91	18
W 6"x4"x12	153	102	7.1	5.8	7.14	22.9	17.9	920	120	124	25
W 6"x6"x15	152	152	6.6	5.8	11.50	28.6	22.3	1211	159	388	51
W 6"x6"x20	157	153	9.3	6.6	8.25	37.9	29.8	1723	220	554	72
W 6"x6"x25	162	154	11.6	8.1	6.68	47.4	37.2	2223	274	712	92
W 8"x4"x10	200	100	5.2	4.3	9.61	19.1	14.9	1282	128	87	17
W 8"x4"x13	203	102	6.5	5.8	7.84	24.8	19.3	1648	162	114	23
W 8"x4"x15	206	102	8.0	6.2	6.37	28.7	22.3	1998	193	142	28
W 8"x5.25"x18	207	133	8.4	5.8	7.95	34	27	2576	249	332	50
W 8"x5.25"x21	210	134	10.2	6.4	6.59	39.7	31.3	3134	298	407	61
W 8"x6.5"x24	201	165	10.2	6.2	8.12	45.7	35.7	3446	342	762	92
W 8"x6.5"x28	205	166	11.8	7.2	7.03	53.2	41.7	4079	398	903	109
W 8"x8"x31	203	203	11.0	7.2	9.19	58.9	46.1	4579	451	1544	152
W 8"x8"x35	206	204	12.6	7.9	8.10	66.5	52.1	5286	511	1773	174
W 8"x8"x40	210	205	14.2	9.1	7.21	75.5	59.5	6077	582	2044	200
W 8"x8"x48	216	206	17.4	10.2	5.92	91	71.4	7659	710	2535	246
W 8"x8"x58	222	209	20.6	13.0	5.07	110.3	86.3	9490	852	3126	300
W 8"x8"x67	229	210	23.7	14.5	4.43	127.1	99.7	11321	990	3688	351
W 10"x4"x12	251	101	5.3	4.8	9.43	22.8	17.9	2239	179	91	18
W 10"x4"x17	257	102	8.4	6.1	6.08	32.2	25.3	3409	265	148	29
W 10"x4"x19	260	102	10.0	6.4	5.09	36.3	28.3	4008	308	179	35
W 10"x5.79"x22	258	146	9.1	6.1	7.99	41.9	32.7	4912	380	475	65
W 10"x5.79"x26	262	147	11.2	6.6	6.56	49.1	38.7	5994	457	587	80
W 10"x5.79"x30	266	148	13.0	7.6	5.7	57.0	44.6	7076	531	695	94
W 10"x8"x33	247	202	11.0	7.4	9.15	62.7	49.1	7076	574	1523	151
W 10"x8"x39	252	203	13.5	8.0	7.53	74.2	58	8699	690	1873	185
W 10"x8"x45	257	204	15.7	8.9	6.47	85.8	67	10323	805	2223	218
W 10"x10"x 49	253	254	14.2	8.6	8.93	92.9	72.9	11321	895	3888	306
W 10"x10"x 54	256	255	15.6	9.4	8.15	101.9	80.4	12612	983	4287	338
W 10"x10"x10	260	256	17.3	10.7	7.41	113.5	89.3	14193	1093	4828	377
W 10"x10"x68	264	257	19.6	11.9	6.58	129.0	101.2	16400	1241	5578	433
W 10"x10"x77	269	259	22.1	13.5	5.86	145.8	114.6	18939	1408	6410	493
W 10"x10"x88	275	261	25.1	15.4	5.18	167.1	131	22227	1614	7451	570
W 12"x4"x14	303	101	5.7	5.1	8.82	26.8	20.8	3688	244	98	20
W 12"x4"x16	305	101	6.7	5.6	7.53	30.4	23.8	4287	280	117	23
W 12"x4"x19	309	102	8.9	6.0	5.72	35.9	28.3	5411	349	157	31



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Designación Nominal (H x B x lb/pie)	Dimensiones				Relación bf 2tf	Area Bruta (Ag) (cm ²)	Peso Kg/m	X - X		Y - Y	
	H (mm)	B (mm)	T1 (mm)	T2 (mm)				Ix cm4	Sx cm3	Iy cm4	Sy cm3
	W 12"x4"x22	313	102	10.8	6.6	4.74	41.8	32.7	6493	416	194
W 12"x6.5"x26	310	165	9.7	5.8	8.54	49.4	38.7	8491	547	720	88
W 12"x6.5"x30	313	166	11.2	6.6	7.41	56.7	44.6	9906	633	845	102
W 12"x6.5"x35	318	167	13.2	7.6	6.31	66.5	52.1	11863	747	1020	122
W 12"x8"x40	303	203	13.1	7.5	7.77	76.1	59.5	12903	850	1836	180
W 12"x8"x45	306	204	14.6	8.5	7.00	85.2	67.0	14568	952	2081	203
W 12"x8"x50	310	205	16.3	9.4	6.31	94.8	74.4	16400	1060	2343	228
W 12"x10"x53	306	254	14.6	8.8	8.69	100.6	78.9	17690	1157	3987	315
W 12"x10"x58	310	254	16.3	9.1	7.82	109.7	86.3	19771	1278	4454	351
W 12"x12"x65	308	305	15.4	9.9	9.92	123.2	96.7	22185	1440	7242	477
W 12"x12"x72	311	306	17.0	10.9	8.99	136.1	107.1	24849	1596	8117	531
W 12"x12"x79	314	307	18.7	11.9	8.22	149.7.9	117.6	27555	1753	8991	587
W 12"x12"x87	318	308	20.6	13.1	7.48	165.2	129.5	30801	1934	10031	651
W 12"x12"x96	323	309	22.9	14.0	6.76	181.9	142.9	34672	2147	11238	728
W 14"x5"x22	349	127	8.5	5.8	7.46	41.9	32.7	8283	475	291	46
W 14"x5"x26	353	128	10.7	6.5	5.98	49.6	38.7	10198	578	371	58
W 14"x6.75"x30	352	171	9.8	6.9	8.74	57.1	44.6	12112	688	816	95
W 14"x6.75"x34	355	171	11.6	7.2	7.41	64.5	50.6	14152	796	970	113
W 14"x6.75"x38	358	172	13.1	7.9	6.57	72.3	56.6	16025	895	1111	129
W 14"x8"x43	347	203	13.5	7.8	7.54	81.3	64.0	17815	1027	1881	185
W 14"x8"x48	350	204	15.1	8.6	6.75	91.0	71.4	20187	1152	2139	210
W 14"x8"x53	354	250	16.8	9.4	6.11	100.6	78.9	22518	1275	2402	234
W 14"x10"x61	353	254	16.4	9.5	7.75	115.5	90.8	26639	1511	4454	352
W 14"x10"x68	357	255	18.3	10.5	6.97	129.0	101.2	30094	1688	5036	397
W 14"x10"x74	360	256	19.9	11.4	6.41	140.6	110.1	33132	1835	5578	436
W 14"x10"x82	363	257	21.7	13.0	5.92	155.5	122.0	36712	2016	6160	480
W 14"x14.5"x90	356	369	18.0	11.2	10.20	171.0	133.9	41582	2343	15068	818
W 14"x14.5"x99	360	370	19.8	12.3	9.34	187.7	147.3	46202	2573	16733	905
W 14"x14.5"x109	364	371	21.8	13.3	8.49	206.5	162.2	51613	2835	18606	1003
W 14"x14.5"x120	368	373	23.9	15.0	7.80	227.7	178.6	57440	3114	20603	1106
W 14"x14.5"x132	372	374	26.2	16.4	7.15	250.3	196.4	63683	3425	22809	1221
W 14"x16"x145	375	394	27.7	17.3	7.11	275.5	215.8	71176	3802	28179	1431
W 14"x16"x159	380	395	30.2	18.9	6.54	301.3	236.6	79084	4162	31134	1576
W 14"x16"x176	387	398	33.3	21.1	5.97	334.2	261.9	89074	4605	34880	1753
W 14"x16"x193	393	399	36.6	22.6	5.45	366.5	287.2	99896	5080	38751	1950
W 16"x5.5"x 26	399	140	8.8	6.4	7.97	49.5	38.7	12529	629	399	57
W 16"x5.5"x 31	403	140	11.2	7.0	6.28	58.8	46.1	15609	773	516	74



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Designación Nominal (H x B x lb/pie)	Dimensiones				Relación bf 2tf	Area Bruta (Ag) (cm ²)	Peso Kg/m	X - X		Y - Y	
	H (mm)	B (mm)	T1 (mm)	T2 (mm)				Ix cm4	Sx cm3	Iy cm4	Sy cm3
	W 10"x10"x10	260	256	17.3				10.7	7.41	113.5	89.3
W 16"x7"x36	403	177	10.9	7.5	8.12	68.4	53.6	18647	926	1020	115
W 16"x7"x40	407	178	12.8	7.8	6.93	76.1	59.5	21561	1060	1203	135
W 16"x7"x45	410	179	14.4	8.8	6.23	85.8	67.0	24391	1191	1365	153
W 16"x7"x50	413	180	16.0	9.7	5.61	94.8	74.4	27430	1327	1548	172
W 16"x7"x57	417	181	18.2	10.9	4.98	108.4	84.8	31550	1511	1794	198
W 16"x10.25"x67	415	260	16.9	10.0	7.70	127.1	99.7	39708	1917	4953	380
W 16"x10.25"x77	420	261	19.3	11.6	6.77	145.8	114.6	46202	2196	5744	441
W 16"x10.25"x89	425	263	22.2	13.3	5.92	169.0	132.4	54110	2540	6785	515
W 18"x6"x35	450	152	10.8	7.6	7.06	66.5	52.1	21228	944	637	84
W 18"x6"x40	455	153	13.3	8.0	5.73	76.1	59.5	25473	1121	795	104
W 18"x6"x46	459	154	15.4	9.1	5.01	87.1	68.5	29636	1291	937	122
W 18"x7.5"x50	457	190	14.5	9.0	6.57	94.8	74.4	33299	1457	1669	175
W 18"x7.5"x55	460	191	16.0	9.9	5.98	104.5	81.8	37045	1611	1869	195
W 18"x7.5"x60	463	192	17.7	10.5	5.44	113.5	89.3	40957	1770	2085	218
W 18"x7.5"x65	466	193	19.1	11.4	5.06	123.2	96.7	44537	1917	2281	236
W 18"x7.5"x71	469	194	20.6	12.6	4.71	134.2	105.7	48699	2081	2510	259
W 18"x11"x76	463	280	17.3	10.8	8.11	143.9	113.1	55359	2393	6327	452
W 18"x11"x86	467	282	19.6	12.2	7.20	163.2	128.0	63683	2720	7284	518
W 18"x11"x97	472	283	22.1	13.6	6.41	183.9	144.4	72840	3081	8366	592
W 21"x6.5"x44	525	165	11.4	8.9	7.22	83.9	65.5	35088	1337	862	104
W 21"x6.5"x50	529	166	13.6	9.7	6.10	94.8	74.4	40957	1549	1036	125
W 21"x6.5"x57	535	166	16.5	10.3	5.04	107.7	84.8	48699	1819	1274	153
W 21"x8.25"x62	533	209	15.6	10.2	6.70	118.1	92.3	55359	2081	2393	228
W 21"x8.25"x68	537	210	17.4	10.9	6.04	129.0	101.2	61602	2294	2693	257
W 21"x8.25"x73	539	211	18.8	11.6	5.60	138.7	108.6	66597	2474	2939	279
W 21"x8.25"x83	544	212	21.2	13.1	5.00	156.8	123.5	76170	2802	3388	320
W 21"x12.5"x147	560	318	29.2	18.3	5.44	278.7	218.8	151092	5391	15650	985
W 24"x7"x55	599	178	12.8	10.0	6.94	104.5	81.8	56191	1868	1211	136
W 24"x7"x62	603	179	15.0	10.9	5.97	117.4	92.3	64516	2147	1436	161
W 24"x9"x68	603	228	14.9	10.5	7.66	129.7	101.2	76170	2524	2930	257
W 24"x12.5"x176	641	327	34.0	19.1	4.81	333.5	261.9	236419	7374	19937	1218
W 27"x10"x84	678	253	16.3	11.7	7.78	160.0	125.0	118626	3490	4412	347
W 27"x10"x94	684	254	18.9	12.4	6.70	178.7	139.9	136108	3982	5161	406
W 27"x10"x102	688	254	21.1	13.1	6.03	193.5	151.8	150676	4375	5786	456
W 27"x10"x114	693	256	23.6	14.5	5.41	216.1	169.7	170239	4900	6618	516
W 30"x10.5"x90	750	264	15.5	11.9	8.52	170.3	133.9	150676	4015	4787	362

