

Listing of W Shapes in Descending order of Z_x for Beam Design

$Z_x - US$ (in. ³)	$I_x - US$ (in. ⁴)	Section	$I_x - SI$ (10 ⁶ mm. ⁴)	$Z_x - SI$ (10 ³ mm.3)	$Z_x - US$ (in. ³)	$I_x - US$ (in. ⁴)	Section	$I_x - SI$ (10 ⁶ mm. ⁴)	$Z_x - SI$ (10 ³ mm.3)
514	7450	W33X141	3100	8420	289	3100	W24X104	1290	4740
511	5680	W24X176	2360	8370	287	1900	W14X159	791	4700
509	7800	W36X135	3250	8340	283	3610	W30X90	1500	4640
500	6680	W30X148	2780	8190	280	3000	W24X103	1250	4590
490	4330	W18X211	1800	8030	279	2670	W21X111	1110	4570
487	3400	W14X257	1420	7980	278	3270	W27X94	1360	4560
481	3110	W12X279	1290	7880	275	1650	W12X170	687	4510
476	4730	W21X182	1970	7800	262	2190	W18X119	912	4290
468	5170	W24X162	2150	7670	260	1710	W14X145	712	4260
467	6710	W33X130	2790	7650	254	2700	W24X94	1120	4160
464	5660	W27X146	2360	7600	253	2420	W21X101	1010	4150
442	3870	W18X192	1610	7240	244	2850	W27X84	1190	4000
437	5770	W30X132	2400	7160	243	1430	W12X152	595	3980
436	3010	W14X233	1250	7140	234	1530	W14X132	637	3830
432	4280	W21X166	1780	7080	230	1910	W18X106	795	3770
428	2720	W12X252	1130	7010	224	2370	W24X84	986	3670
418	4580	W24X146	1910	6850	221	2070	W21X93	862	3620
415	5900	W33X118	2460	6800	214	1240	W12X136	516	3510
408	5360	W30X124	2230	6690	212	1380	W14X120	574	3470
398	3450	W18X175	1440	6520	211	1750	W18X97	728	3460
395	4760	W27X129	1980	6470	200	2100	W24X76	874	3280
390	2660	W14X211	1110	6390	198	1490	W16X100	620	3240
386	2420	W12X230	1010	6330	196	1830	W21X83	762	3210
378	4930	W30X116	2050	6190	192	1240	W14X109	516	3150
373	3630	W21X147	1510	6110	186	1530	W18X86	637	3050
370	4020	W24X131	1670	6060	185	1070	W12X120	445	3050
356	3060	W18X158	1270	5830	177	1830	W24X68	762	2900
355	2400	W14X193	999	5820	174	1300	W16X89	541	2870
348	2140	W12X210	891	5700	173	1110	W14X99	462	2830
346	4470	W30X108	1860	5670	169	1600	W21X73	666	2820
343	4080	W27X114	1700	5620	164	933	W12X106	388	2690
333	3220	W21X132	1340	5460	160	1330	W18X76	554	2670
327	3540	W24X117	1470	5360	159	1480	W21X68	616	2620
322	2750	W18X143	1140	5280	157	999	W14X90	416	2570
320	2140	W14X176	891	5240	153	1550	W24X62	645	2510
312	3990	W30X99	1660	5110	147	1110	W16X77	462	2460
311	1890	W12X190	787	5100	147	833	W12X96	347	2410
307	2960	W21X122	1230	5030	146	716	W10X112	298	2410
305	3620	W27X102	1510	5000	146	1170	W18X71	487	2390
290	2460	W18X130	1020	4750					

(continued)

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$Z_x - US$ (in. ³)	$I_x - US$ (in. ⁴)	Section	$I_x - SI$ (10 ⁶ mm. ⁴)	$Z_x - SI$ (10 ³ mm.3)	$Z_x - US$ (in. ³)	$I_x - US$ (in. ⁴)	Section	$I_x - SI$ (10 ⁶ mm. ⁴)	$Z_x - SI$ (10 ³ mm.3)
144	1330	W21X62	554	2360	66.5	510	W18X35	212	1090
139	881	W14X82	367	2280	64.0	348	W12X45	145	1050
133	1350	W24X55	562	2200	63.5	448	W16X36	186	1050
132	1070	W18X65	445	2180	61.5	385	W14X38	160	1010
131	740	W12X87	308	2160	59.4	228	W8X58	94.9	980
130	954	W16X67	397	2130	57.0	307	W12X40	128	934
129	623	W10X100	259	2130	54.7	248	W10X45	103	900
129	1170	W21X57	487	2110	54.5	340	W14X34	142	895
126	1140	W21X55	475	2060	53.7	375	W16X31	156	885
126	795	W14X74	331	2060	51.2	285	W12X35	119	839
123	984	W18X60	410	2020	49.0	184	W8X48	76.6	803
118	662	W12X79	276	1950	47.2	291	W14X30	121	775
115	722	W14X68	301	1880	46.7	209	W10X39	87.0	767
113	534	W10X88	222	1850	44.2	301	W16X26	125	724
112	890	W18X55	370	1840	43.0	238	W12X30	99.1	706
110	984	W21X50	410	1800	40.1	245	W14X26	102	659
108	597	W12X72	248	1770	39.7	146	W8X40	60.8	652
107	959	W21X48	399	1750	38.5	171	W10X33	71.2	636
105	758	W16X57	316	1720	37.1	204	W12X26	84.9	610
102	640	W14X61	266	1670	36.6	170	W10X30	70.8	600
100	800	W18X50	333	1660	34.7	127	W8X35	52.9	569
96.8	455	W10X77	189	1600	33.2	199	W14X22	82.8	544
95.5	533	W12X65	222	1590	31.3	144	W10X26	59.9	513
95.4	843	W21X44	351	1560	30.4	110	W8X31	45.8	498
91.7	659	W16X50	274	1510	29.2	156	W12X22	64.9	480
90.6	712	W18X46	296	1490	27.1	98.0	W8X28	40.8	446
86.5	541	W14X53	225	1430	26.0	118	W10X22	49.1	426
86.4	475	W12X58	198	1420	24.6	130	W12X19	54.1	405
85.2	394	W10X68	164	1400	23.1	82.7	W8X24	34.4	379
82.1	586	W16X45	244	1350	21.4	96.3	W10X19	40.1	354
78.4	612	W18X40	255	1280	20.4	75.3	W8X21	31.3	334
78.1	484	W14X48	201	1280	20.1	103	W12x16	42.9	329
77.3	425	W12X53	177	1280	18.6	81.9	W10X17	34.1	306
74.4	341	W10X60	142	1220	17.3	88.6	W12X14	36.9	285
72.2	518	W16X40	216	1200	17.0	61.9	W8X18	25.8	279
71.8	391	W12X50	163	1180	15.9	68.9	W10X15	28.7	262
69.6	272	W8X67	113	1150	13.6	48.0	W8X15	20.0	223
69.4	428	W14X43	178	1140	12.6	53.8	W10X12	22.4	206
66.5	303	W10X54	126	1090	11.4	39.6	W8X13	16.5	187
					8.87	30.8	W8X10	12.8	145