

Table 6-2 (continued)
Available Strength for Members
Subject to Axial, Shear,
Flexural and Combined Forces
W-Shapes

$F_y = 50$ ksi
 $F_u = 65$ ksi



W12x						Shape lb/ft	Design	W12x					
72		65		58				72		65 [†]		58	
P_n/Ω_c	$\phi_c P_n$	P_n/Ω_c	$\phi_c P_n$	P_n/Ω_c	$\phi_c P_n$			M_{max}/Ω_b	$\phi_b M_{max}$	M_{max}/Ω_b	$\phi_b M_{max}$	M_{max}/Ω_b	$\phi_b M_{max}$
Available Compressive Strength, kips								Available Flexural Strength, kip-ft					
ASD	LRFD	ASD	LRFD	ASD	LRFD			ASD	LRFD	ASD	LRFD	ASD	LRFD
632	949	572	859	509	765	Effective length, L_e , ft, with respect to least radius of gyration, r_y or unbraced length, L_b , ft, for X-Y axis bending	0	269	405	237	356	216	324
606	911	549	825	479	720		6	269	405	237	356	216	324
597	898	540	812	469	705		7	269	405	237	356	216	324
587	883	531	798	457	687		8	269	405	237	356	216	324
576	866	521	783	445	668		9	269	405	237	356	215	323
564	847	510	766	431	647		10	269	405	237	356	211	318
550	827	497	747	416	625		11	268	404	237	356	207	312
536	806	484	728	400	601		12	265	398	237	356	204	306
521	783	470	707	384	577		13	261	392	233	350	200	301
505	759	456	685	367	551		14	257	387	230	345	196	295
489	735	441	663	349	525		15	254	381	226	340	192	289
472	709	426	640	332	499		16	250	376	222	334	189	283
455	683	410	616	314	472		17	246	370	219	329	185	278
437	656	393	591	296	445		18	242	364	215	323	181	272
419	629	377	567	278	418		19	239	359	212	318	177	266
401	602	360	542	261	392		20	235	353	208	313	173	261
364	547	327	492	227	341		22	228	342	201	302	166	249
328	493	294	442	194	292		24	220	331	194	291	158	238
292	440	262	394	165	249		26	213	320	186	280	151	227
259	389	231	348	143	214		28	205	309	179	269	143	215
226	340	202	304	124	187		30	198	297	172	259	135	203
199	299	178	267	109	164		32	190	286	165	248	125	188
176	265	157	236	96.7	145		34	183	275	158	237	116	174
157	236	140	211	86.3	130		36	176	264	149	224	108	163
141	212	126	189	77.4	116		38	167	251	139	209	102	153
127	191	114	171	69.9	105		40	157	236	130	196	95.7	144
115	173	103	155				42	148	223	123	185	90.5	136
105	158	93.9	141				44	140	211	116	175	85.8	129
96.2	145	85.9	129				46	133	200	110	166	81.6	123
88.3	133	78.9	119				48	127	191	105	158	77.8	117
81.4	122	72.7	109				50	121	182	100	150	74.3	112

Available Strength in Tensile Yielding, kips						Limiting Unbraced Lengths, ft					
P_n/ϕ_t	$\phi_t P_n$	P_n/ϕ_t	$\phi_t P_n$	P_n/ϕ_t	$\phi_t P_n$	L_p	L_r	L_p	L_r	L_p	L_r
632	950	572	860	509	765	10.7	37.5	11.9	35.1	8.87	29.8
Available Strength in Tensile Rupture ($A_n = 0.75A_g$), kips						Area, in. ²					
P_n/ϕ_t	$\phi_t P_n$	P_n/ϕ_t	$\phi_t P_n$	P_n/ϕ_t	$\phi_t P_n$	21.1		19.1		17.0	
514	770	465	697	416	624	Moment of Inertia, in. ⁴					
V_n/ϕ_v	$\phi_v V_n$	V_n/ϕ_v	$\phi_v V_n$	V_n/ϕ_v	$\phi_v V_n$	I_x	I_y	I_x	I_y	I_x	I_y
106	159	94.4	142	87.8	132	597	195	533	174	475	107
Available Strength in Shear, kips						r_{p1} , in.					
M_{ny}/ϕ_b	$\phi_b M_{ny}$	M_{ny}/ϕ_b	$\phi_b M_{ny}$	M_{ny}/ϕ_b	$\phi_b M_{ny}$	3.04		3.02		2.51	
123	185	107	161	81.1	122	1.75		1.75		2.10	

[†] Shape exceeds compact limit for flexure with $F_y = 50$ ksi.
 Note: Heavy line indicates L_e/r equal to or greater than 200.

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Proceedings of the Session of the Association of American Railroads, Operations and Maintenance

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