19W4 Smooth — NAAMM MBG 534-19 Standard Load Table (ASTM A1011CS Type B

U = Safe uniform load (lbs/ft²) Du = Deflection (in) C = Concentrated line load (lbs/ft) Dc = Deflection (in) Pedestrian cc

Bar Size	Weight lbs/ft²	Ped Span (in)	Section Sx(in³/ft)	Type	2'0"	2'6"	3'0"	3'6"	4'0"
1"×⅛"	5.14	51	0.211	U (psf)	632	404	281	206	158
				Du (in)	*0.070*	*0.120*	*0.170*	*0.230*	*0.300*
				C (plf)	632	505	421	361	316
				Dc (in)	*0.060*	*0.090*	*0.130*	*0.180*	*0.240*
1"×3⁄16"	7.33	57	0.316	U (psf)	947	606	421	309	237
				Du (in)	*0.070*	*0.120*	*0.170*	*0.230*	*0.300*
				C (plf)	947	758	632	541	474
				Dc (in)	*0.060*	*0.090*	*0.130*	*0.180*	*0.240*
1¼"×⅛"	6.23	61	0.329	U (psf)	987	632	439	322	247
				Du (in)	*0.060*	*0.090*	*0.130*	*0.180*	*0.240*
				C (plf)	987	789	658	564	493
				Dc (in)	*0.050*	*0.070*	*0.110*	*0.150*	*0.190*
1¼"×3⁄16"	8.98	67	0.493	U (psf)	1,480	947	658	483	370
				Du (in)	*0.060*	*0.090*	*0.130*	*0.180*	*0.240*
				C (plf)	1,480	1,184	987	846	740
				Dc (in)	*0.050*	*0.070*	*0.110*	*0.150*	*0.190*
1½"×⅛"	7.33	70	0.474	U (psf)	1,421	909	632	464	355
				Du (in)	*0.050*	*0.080*	*0.110*	*0.150*	*0.200*
				C (plf)	1,421	1,137	947	812	711
				Dc (in)	*0.040*	*0.060*	*0.090*	*0.120*	*0.160*
1½"×3⁄16"	10.63	77	0.711	U (psf)	2,132	1,364	947	696	533
				Du (in)	*0.050*	*0.080*	*0.110*	*0.150*	*0.200*
				C (plf)	2,132	1,705	1,421	1,218	1,066
				Dc (in)	*0.040*	*0.060*	*0.090*	*0.120*	*0.160*
1¾"×3⁄16"	12.27	87	0.967	U (psf)	2,901	1,857	1,289	947	725
				Du (in)	*0.040*	*0.070*	*0.100*	*0.130*	*0.170*
				C (plf)	2,901	2,321	1,934	1,658	1,451
				Dc (in)	*0.030*	*0.050*	*0.080*	*0.100*	*0.140*
2"×3⁄16"	13.92	96	1.263	U (psf)	3,789	2,425	1,684	1,237	947
				Du (in)	*0.040*	*0.060*	*0.080*	*0.110*	*0.150*
				C (plf)	3,789	3,032	2,526	2,165	1,895
				Dc (in)	*0.030*	*0.050*	*0.070*	*0.090*	*0.120*
2½"×3⁄16"	17.21	113	1.974	U (psf)	5,921	3,789	2,632	1,933	1,480
				Du (in)	*0.030*	*0.050*	*0.070*	*0.090*	*0.120*
				C (plf)	5,921	4,737	3,947	3,383	2,961
				Dc (in)	*0.020*	*0.040*	*0.050*	*0.070*	*0.100*

19W4 Serrated — NAAMM MBG 534-19 Standard Load Table (ASTM A1011CS Type B, F=18 ksi, spac

U = Safe Uniform Load (lbs/ft²) Du = Deflection (in) C = Safe Conc. Load (lbs/ft) Dc = Deflection (in) Serrated: pedes

Bar Size	Weight lbs/ft²	Ped Span (in)	Section Sx(in³/ft)	Type	2'0"	2'6"	3'0"	3'6"	4'0"
1"×⅛"	5.14	42	0.118	U (psf)	355	227	158	116	—
				Du (in)	*0.100*	*0.160*	*0.220*	*0.300*	—
				C (plf)	355	284	237	203	—
				Dc (in)	*0.080*	*0.120*	*0.180*	*0.240*	—
1"×3⁄16"	7.33	46	0.178	U (psf)	533	341	237	174	133
				Du (in)	*0.100*	*0.160*	*0.220*	*0.300*	*0.400*
				C (plf)	533	426	355	305	266
				Dc (in)	*0.080*	*0.120*	*0.180*	*0.240*	*0.320*
1¼"×⅛"	6.23	51	0.211	U (psf)	632	404	281	206	158
				Du (in)	*0.070*	*0.120*	*0.170*	*0.230*	*0.300*
				C (plf)	632	505	421	361	316
				Dc (in)	*0.060*	*0.090*	*0.130*	*0.180*	*0.240*
1¼"×3⁄16"	8.98	57	0.316	U (psf)	947	606	421	309	237
				Du (in)	*0.070*	*0.120*	*0.170*	*0.230*	*0.300*
				C (plf)	947	758	632	541	474
				Dc (in)	*0.060*	*0.090*	*0.130*	*0.180*	*0.240*
1½"×⅛"	7.33	61	0.329	U (psf)	987	632	439	322	247
				Du (in)	*0.060*	*0.090*	*0.130*	*0.180*	*0.240*
				C (plf)	987	789	658	564	493
				Dc (in)	*0.050*	*0.070*	*0.110*	*0.150*	*0.190*
1½"×3⁄16"	10.63	67	0.493	U (psf)	1,480	947	658	483	370
				Du (in)	*0.060*	*0.090*	*0.130*	*0.180*	*0.240*
				C (plf)	1,480	1,184	987	846	740
				Dc (in)	*0.050*	*0.070*	*0.110*	*0.150*	*0.190*
1¾"×3⁄16"	12.27	77	0.711	U (psf)	2,132	1,364	947	696	533
				Du (in)	*0.050*	*0.080*	*0.110*	*0.150*	*0.200*
				C (plf)	2,132	1,705	1,421	1,218	1,066
				Dc (in)	*0.040*	*0.060*	*0.090*	*0.120*	*0.160*
2"×3⁄16"	13.92	87	0.967	U (psf)	2,901	1,857	1,289	947	725
				Du (in)	*0.040*	*0.070*	*0.100*	*0.130*	*0.170*
				C (plf)	2,901	2,321	1,934	1,658	1,451
				Dc (in)	*0.030*	*0.050*	*0.080*	*0.100*	*0.140*
2½"×3⁄16"	17.21	105	1.599	U (psf)	4,796	3,069	2,132	1,566	1,199
				Du (in)	*0.030*	*0.050*	*0.070*	*0.100*	*0.130*
				C (plf)	4,796	3,837	3,197	2,741	2,398
				Dc (in)	*0.030*	*0.040*	*0.060*	*0.080*	*0.110*

15W4 Smooth (Close Mesh) — NAAMM MBG 534-19 Close Mesh Load Table (

U = Safe Uniform Load (lbs/ft²) Du = Deflection (in) C = Safe Conc. Load (lbs/ft) Dc = Deflection (in) Suitable for whe

Bar Size	Weight lbs/ft²	Ped Span (in)	Section Sx(in³/ft)	Type	2'0"	2'6"	3'0"	3'6"	4'0"
1"×⅛"	6.27	55	0.267	U (psf)	800	512	356	261	200
				Du (in)	*0.070*	*0.120*	*0.170*	*0.230*	*0.300*
				C (plf)	800	640	533	457	400
				Dc (in)	*0.060*	*0.090*	*0.130*	*0.180*	*0.240*
1"×3⁄16"	9.03	60	0.400	U (psf)	1,200	768	533	392	300
				Du (in)	*0.070*	*0.120*	*0.170*	*0.230*	*0.300*
				C (plf)	1,200	960	800	686	600
				Dc (in)	*0.060*	*0.090*	*0.130*	*0.180*	*0.240*
1¼"×⅛"	7.65	65	0.417	U (psf)	1,250	800	556	408	313
				Du (in)	*0.060*	*0.090*	*0.130*	*0.180*	*0.240*
				C (plf)	1,250	1,000	833	714	625
				Dc (in)	*0.050*	*0.070*	*0.110*	*0.150*	*0.190*
1¼"×3⁄16"	11.10	71	0.625	U (psf)	1,875	1,200	833	612	469
				Du (in)	*0.060*	*0.090*	*0.130*	*0.180*	*0.240*
				C (plf)	1,875	1,500	1,250	1,071	938
				Dc (in)	*0.050*	*0.070*	*0.110*	*0.150*	*0.190*
1½"×⅛"	9.03	74	0.600	U (psf)	1,800	1,152	800	588	450
				Du (in)	*0.050*	*0.080*	*0.110*	*0.150*	*0.200*
				C (plf)	1,800	1,440	1,200	1,029	900
				Dc (in)	*0.040*	*0.060*	*0.090*	*0.120*	*0.160*
1½"×3⁄16"	13.18	82	0.900	U (psf)	2,700	1,728	1,200	882	675
				Du (in)	*0.050*	*0.080*	*0.110*	*0.150*	*0.200*
				C (plf)	2,700	2,160	1,800	1,543	1,350
				Dc (in)	*0.040*	*0.060*	*0.090*	*0.120*	*0.160*
1¾"×3⁄16"	15.25	92	1.225	U (psf)	3,675	2,352	1,633	1,200	919
				Du (in)	*0.040*	*0.070*	*0.100*	*0.130*	*0.170*
				C (plf)	3,675	2,940	2,450	2,100	1,838
				Dc (in)	*0.030*	*0.050*	*0.080*	*0.100*	*0.140*
2"×3⁄16"	17.32	102	1.600	U (psf)	4,800	3,072	2,133	1,567	1,200
				Du (in)	*0.040*	*0.060*	*0.080*	*0.110*	*0.150*
				C (plf)	4,800	3,840	3,200	2,743	2,400
				Dc (in)	*0.030*	*0.050*	*0.070*	*0.090*	*0.120*
2½"×3⁄16"	21.46	120	2.500	U (psf)	7,500	4,800	3,333	2,449	1,875
				Du (in)	*0.030*	*0.050*	*0.070*	*0.090*	*0.120*
				C (plf)	7,500	6,000	5,000	4,286	3,750
				Dc (in)	*0.020*	*0.040*	*0.050*	*0.070*	*0.100*

11W4 Smooth (Close Mesh) — NAAMM MBG 534-19 Ultra-Dense Mesh Load Tabl

U = Safe Uniform Load (lbs/ft²) Du = Deflection (in) C = Safe Conc. Load (lbs/ft) Dc = Deflection (in) ADA compliant,

Bar Size	Weight lbs/ft²	Ped Span (in)	Section Sx(in³/ft)	Type	2'0"	2'6"	3'0"	3'6"	4'0"
1"×⅛"	8.25	59	0.364	**U (psf)**	1,091	698	485	356	273
				Du (in)	*0.070*	*0.120*	*0.170*	*0.230*	*0.300*
				C (plf)	1,091	873	727	623	545
				Dc (in)	*0.060*	*0.090*	*0.130*	*0.180*	*0.240*
1¼"×3⁄16"	14.82	77	0.852	**U (psf)**	2,557	1,636	1,136	835	639
				Du (in)	*0.060*	*0.090*	*0.130*	*0.180*	*0.240*
				C (plf)	2,557	2,045	1,705	1,461	1,278
				Dc (in)	*0.050*	*0.070*	*0.110*	*0.150*	*0.190*
1½"×3⁄16"	17.64	89	1.227	**U (psf)**	3,682	2,356	1,636	1,202	920
				Du (in)	*0.050*	*0.080*	*0.110*	*0.150*	*0.200*
				C (plf)	3,682	2,945	2,455	2,104	1,841
				Dc (in)	*0.040*	*0.060*	*0.090*	*0.120*	*0.160*
1¾"×3⁄16"	20.45	99	1.670	**U (psf)**	5,011	3,207	2,227	1,636	1,253
				Du (in)	*0.040*	*0.070*	*0.100*	*0.130*	*0.170*
				C (plf)	5,011	4,009	3,341	2,864	2,506
				Dc (in)	*0.030*	*0.050*	*0.080*	*0.100*	*0.140*
2"×3⁄16"	23.27	110	2.182	**U (psf)**	6,545	4,189	2,909	2,137	1,636
				Du (in)	*0.040*	*0.060*	*0.080*	*0.110*	*0.150*
				C (plf)	6,545	5,236	4,364	3,740	3,273
				Dc (in)	*0.030*	*0.050*	*0.070*	*0.090*	*0.120*
2½"×3⁄16"	28.90	130	3.409	**U (psf)**	10,227	6,545	4,545	3,340	2,557
				Du (in)	*0.030*	*0.050*	*0.070*	*0.090*	*0.120*
				C (plf)	10,227	8,182	6,818	5,844	5,114
				Dc (in)	*0.020*	*0.040*	*0.050*	*0.070*	*0.100*

(19-W-4) — ASTM A1011CS Type B, F=18 ksi, spacing of load-bearing flat st

U = Safe Uniform Load (lbs/ft²) Du = Deflection (in) C = Safe Conc. Load (lbs/ft) Dc = Deflection (in) SGW factor: m

Bar Size	Weight lbs/ft²	Type	2'	2'6"	3'	3'6"	4'	4'6"	5'
3/4"×1/8"	4.1	**U (psf)**	355	227	158	116	89	70	—
		Du (in)	*0.099*	*0.155*	*0.223*	*0.304*	*0.397*	*0.503*	—
		C (plf)	355	284	237	203	178	158	—
		Dc (in)	*0.079*	*0.124*	*0.179*	*0.243*	*0.318*	*0.402*	—
3/4"×3/16"	5.8	**U (psf)**	533	341	237	174	133	105	—

		Du (in)	*0.099*	*0.155*	*0.223*	*0.304*	*0.397*	*0.503*	—
		C (plf)	533	426	355	305	266	237	—
		Dc (in)	*0.079*	*0.124*	*0.179*	*0.243*	*0.318*	*0.402*	—
1"×1/8"	5.2	**U (psf)**	632	404	281	206	158	125	101
		Du (in)	*0.074*	*0.116*	*0.168*	*0.228*	*0.298*	*0.377*	*0.466*
		C (plf)	632	505	421	361	316	281	253
		Dc (in)	*0.060*	*0.093*	*0.134*	*0.182*	*0.238*	*0.302*	*0.372*
1"×3/16"	7.5	**U (psf)**	947	606	421	309	237	187	152
		Du (in)	*0.074*	*0.116*	*0.168*	*0.228*	*0.298*	*0.377*	*0.466*
		C (plf)	947	758	632	541	474	421	379
		Dc (in)	*0.060*	*0.093*	*0.134*	*0.182*	*0.238*	*0.302*	*0.372*
1-1/4"×1/8"	6.3	**U (psf)**	987	632	439	322	247	195	158
		Du (in)	*0.060*	*0.093*	*0.134*	*0.182*	*0.238*	*0.302*	*0.372*
		C (plf)	987	789	658	564	493	439	395
		Dc (in)	*0.048*	*0.074*	*0.107*	*0.146*	*0.191*	*0.241*	*0.298*
1-1/4"×3/16"	9.1	**U (psf)**	1,480	947	658	483	370	292	237
		Du (in)	*0.060*	*0.093*	*0.134*	*0.182*	*0.238*	*0.302*	*0.372*
		C (plf)	1,480	1,184	987	846	740	658	592
		Dc (in)	*0.048*	*0.074*	*0.107*	*0.146*	*0.191*	*0.241*	*0.298*
1-1/2"×1/8"	7.4	**U (psf)**	1,421	909	632	464	355	281	227
		Du (in)	*0.050*	*0.078*	*0.112*	*0.152*	*0.199*	*0.251*	*0.310*
		C (plf)	1,421	1,137	947	812	711	632	568
		Dc (in)	*0.040*	*0.062*	*0.089*	*0.122*	*0.159*	*0.201*	*0.248*
1-1/2"×3/16"	10.8	**U (psf)**	2,132	1,364	947	696	533	421	341
		Du (in)	*0.050*	*0.078*	*0.112*	*0.152*	*0.199*	*0.251*	*0.310*
		C (plf)	2,132	1,705	1,421	1,218	1,066	947	853
		Dc (in)	*0.040*	*0.062*	*0.089*	*0.122*	*0.159*	*0.201*	*0.248*
1-3/4"×3/16"	12.5	**U (psf)**	2,901	1,857	1,289	947	725	573	464
		Du (in)	*0.043*	*0.067*	*0.096*	*0.130*	*0.170*	*0.215*	*0.266*
		C (plf)	2,901	2,321	1,934	1,658	1,451	1,289	1,161
		Dc (in)	*0.034*	*0.053*	*0.077*	*0.104*	*0.136*	*0.172*	*0.213*
2"×3/16"	14.1	**U (psf)**	3,789	2,425	1,684	1,237	947	749	606
		Du (in)	*0.037*	*0.058*	*0.084*	*0.114*	*0.149*	*0.189*	*0.233*
		C (plf)	3,789	3,032	2,526	2,165	1,895	1,684	1,516
		Dc (in)	*0.030*	*0.047*	*0.067*	*0.091*	*0.119*	*0.151*	*0.186*
2-1/4"×3/16"	15.8	**U (psf)**	4,796	3,069	2,132	1,566	1,199	947	767
		Du (in)	*0.033*	*0.052*	*0.074*	*0.101*	*0.132*	*0.168*	*0.207*
		C (plf)	4,796	3,837	3,197	2,741	2,398	2,132	1,918
		Dc (in)	*0.026*	*0.041*	*0.060*	*0.081*	*0.106*	*0.134*	*0.166*
2-1/2"×3/16"	17.4	**U (psf)**	5,921	3,789	2,632	1,933	1,480	1,170	947
		Du (in)	*0.030*	*0.047*	*0.067*	*0.091*	*0.119*	*0.151*	*0.186*

		C (plf)	5,921	4,737	3,947	3,383	2,961	2,632	2,368
		Dc (in)	*0.024*	*0.037*	*0.054*	*0.073*	*0.095*	*0.121*	*0.149*

Heavy-Duty Series (19-W-4) — ASTM A1011CS, 1/4-inch thick bars with sp

U = Safe Uniform Load (lbs/ft²) Du = Deflection (in) C = Safe Conc. Load (lbs/ft) Dc = Deflection (in) Suitable for bric

Bar Size	Weight lbs/ft²	Type	1'	1'6"	2'	2'6"	3'	3'6"	4'
1"×1/4"	9.8	U (psf)	5,615	2,495	1,404	898	624	458	351
		Du (in)	*0.021*	*0.047*	*0.083*	*0.129*	*0.186*	*0.253*	*0.331*
		C (plf)	2,807	1,872	1,404	1,123	936	802	702
		Dc (in)	*0.016*	*0.037*	*0.066*	*0.104*	*0.149*	*0.203*	*0.265*
1-1/4"×1/4"	12.0	U (psf)	8,772	3,899	2,193	1,404	975	716	548
		Du (in)	*0.017*	*0.037*	*0.066*	*0.104*	*0.149*	*0.203*	*0.265*
		C (plf)	4,386	2,924	2,193	1,754	1,462	1,253	1,097
		Dc (in)	*0.013*	*0.030*	*0.053*	*0.083*	*0.119*	*0.162*	*0.212*
1-1/2"×1/4"	14.3	U (psf)	12,632	5,614	3,158	2,021	1,404	1,031	790
		Du (in)	*0.014*	*0.031*	*0.055*	*0.086*	*0.124*	*0.169*	*0.221*
		C (plf)	6,316	4,211	3,158	2,526	2,105	1,805	1,579
		Dc (in)	*0.011*	*0.025*	*0.044*	*0.069*	*0.099*	*0.135*	*0.177*
1-3/4"×1/4"	16.5	U (psf)	17,193	7,641	4,298	2,751	1,910	1,404	1,075
		Du (in)	*0.012*	*0.027*	*0.047*	*0.074*	*0.106*	*0.145*	*0.189*
		C (plf)	8,597	5,731	4,298	3,439	2,866	2,456	2,149
		Dc (in)	*0.010*	*0.021*	*0.038*	*0.059*	*0.085*	*0.116*	*0.151*
2"×1/4"	18.7	U (psf)	22,456	9,980	5,614	3,593	2,495	1,833	1,404
		Du (in)	*0.010*	*0.023*	*0.041*	*0.065*	*0.093*	*0.127*	*0.166*
		C (plf)	11,228	7,485	5,614	4,491	3,743	3,208	2,807
		Dc (in)	*0.008*	*0.019*	*0.033*	*0.052*	*0.075*	*0.101*	*0.132*
2-1/2"×1/4"	23.2	U (psf)	35,088	15,595	8,772	5,614	3,899	2,864	2,193
		Du (in)	*0.008*	*0.019*	*0.033*	*0.052*	*0.075*	*0.101*	*0.132*
		C (plf)	17,544	11,696	8,772	7,018	5,848	5,013	4,386
		Dc (in)	*0.007*	*0.015*	*0.027*	*0.041*	*0.060*	*0.081*	*0.106*
3"×1/4"	27.9	U (psf)	50,527	22,456	12,632	8,084	5,614	4,125	3,158
		Du (in)	*0.007*	*0.016*	*0.028*	*0.043*	*0.062*	*0.085*	*0.110*
		C (plf)	25,263	16,842	12,632	10,105	8,421	7,218	6,316
		Dc (in)	*0.006*	*0.012*	*0.022*	*0.035*	*0.050*	*0.068*	*0.088*
4"×1/4"		U (psf)	89,825	39,922	22,456	14,372	9,981	7,333	5,614
		Du (in)	*0.005*	*0.012*	*0.021*	*0.032*	*0.047*	*0.063*	*0.083*
		C (plf)	44,913	29,942	22,456	17,965	14,971	12,832	11,228
		Dc (in)	*0.004*	*0.009*	*0.017*	*0.026*	*0.037*	*0.051*	*0.066*

, F=18 ksi, spacing of load-bearing flat steel bars 1-3/16"

mfort deflection limit: ¼" (6.4mm)

4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	备注
125	—	—	—	—	—	—	—	
0.380	—	—	—	—	—	—	—	
281	—	—	—	—	—	—	—	
0.300	—	—	—	—	—	—	—	
187	152	—	—	—	—	—	—	
0.380	*0.470*	—	—	—	—	—	—	
421	379	—	—	—	—	—	—	
0.300	*0.370*	—	—	—	—	—	—	
195	158	130	—	—	—	—	—	
0.300	*0.370*	*0.450*	—	—	—	—	—	
439	395	359	—	—	—	—	—	
0.240	*0.300*	*0.360*	—	—	—	—	—	
292	237	196	164	—	—	—	—	
0.300	*0.370*	*0.450*	*0.540*	—	—	—	—	
658	592	538	493	—	—	—	—	
0.240	*0.300*	*0.360*	*0.430*	—	—	—	—	
281	227	188	158	—	—	—	—	
0.250	*0.310*	*0.380*	*0.450*	—	—	—	—	
632	568	517	474	—	—	—	—	
0.200	*0.250*	*0.300*	*0.360*	—	—	—	—	
421	341	282	237	202	—	—	—	
0.250	*0.310*	*0.380*	*0.450*	*0.520*	—	—	—	
947	853	775	711	656	—	—	—	
0.200	*0.250*	*0.300*	*0.360*	*0.420*	—	—	—	
573	464	384	322	275	237	206	—	
0.220	*0.270*	*0.320*	*0.380*	*0.450*	*0.520*	*0.600*	—	
1,289	1,161	1,055	967	893	829	774	—	
0.170	*0.210*	*0.260*	*0.310*	*0.360*	*0.420*	*0.480*	—	
749	606	501	421	359	309	269	237	
0.190	*0.230*	*0.280*	*0.340*	*0.390*	*0.460*	*0.520*	*0.600*	
1,684	1,516	1,378	1,263	1,166	1,083	1,011	947	
0.150	*0.190*	*0.230*	*0.270*	*0.310*	*0.360*	*0.420*	*0.480*	
1,170	947	783	658	561	483	421	370	
0.150	*0.190*	*0.230*	*0.270*	*0.310*	*0.360*	*0.420*	*0.480*	
2,632	2,368	2,153	1,974	1,822	1,692	1,579	1,480	
0.120	*0.150*	*0.180*	*0.210*	*0.250*	*0.290*	*0.340*	*0.380*	

cing of load-bearing flat steel bars 1-3/16" (1.675 inch), serrated surface)

strian span ~15% less than smooth

4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	备注
—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	
125	—	—	—	—	—	—	—	
0.380	—	—	—	—	—	—	—	
281	—	—	—	—	—	—	—	
0.300	—	—	—	—	—	—	—	
187	152	—	—	—	—	—	—	
0.380	*0.470*	—	—	—	—	—	—	
421	379	—	—	—	—	—	—	
0.300	*0.370*	—	—	—	—	—	—	
195	158	130	—	—	—	—	—	
0.300	*0.370*	*0.450*	—	—	—	—	—	
439	395	359	—	—	—	—	—	
0.240	*0.300*	*0.360*	—	—	—	—	—	
292	237	196	164	—	—	—	—	
0.300	*0.370*	*0.450*	*0.540*	—	—	—	—	
658	592	538	493	—	—	—	—	
0.240	*0.300*	*0.360*	*0.430*	—	—	—	—	
421	341	282	237	202	—	—	—	
0.250	*0.310*	*0.380*	*0.450*	*0.520*	—	—	—	
947	853	775	711	656	—	—	—	
0.200	*0.250*	*0.300*	*0.360*	*0.420*	—	—	—	
573	464	384	322	275	237	206	—	
0.220	*0.270*	*0.320*	*0.380*	*0.450*	*0.520*	*0.600*	—	
1,289	1,161	1,055	967	893	829	774	—	
0.170	*0.210*	*0.260*	*0.310*	*0.360*	*0.420*	*0.480*	—	
947	767	634	533	454	392	341	300	
0.170	*0.210*	*0.250*	*0.300*	*0.350*	*0.410*	*0.470*	*0.530*	
2,132	1,918	1,744	1,599	1,476	1,370	1,279	1,199	
0.130	*0.170*	*0.200*	*0.240*	*0.280*	*0.320*	*0.370*	*0.420*	

ASTM A1011CS Type B, F=18 ksi, spacing 15/16")

eelchair / ADA applications

4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	备注
158	128	—	—	—	—	—	—	
0.380	*0.470*	—	—	—	—	—	—	
356	320	—	—	—	—	—	—	
0.300	*0.370*	—	—	—	—	—	—	
237	192	—	—	—	—	—	—	
0.380	*0.470*	—	—	—	—	—	—	
533	480	—	—	—	—	—	—	
0.300	*0.370*	—	—	—	—	—	—	
247	200	165	—	—	—	—	—	
0.300	*0.370*	*0.450*	—	—	—	—	—	
556	500	455	—	—	—	—	—	
0.240	*0.300*	*0.360*	—	—	—	—	—	
370	300	248	208	—	—	—	—	
0.300	*0.370*	*0.450*	*0.540*	—	—	—	—	
833	750	682	625	—	—	—	—	
0.240	*0.300*	*0.360*	*0.430*	—	—	—	—	
356	288	238	200	170	—	—	—	
0.250	*0.310*	*0.380*	*0.450*	*0.520*	—	—	—	
800	720	655	600	554	—	—	—	
0.200	*0.250*	*0.300*	*0.360*	*0.420*	—	—	—	
533	432	357	300	256	220	—	—	
0.250	*0.310*	*0.380*	*0.450*	*0.520*	*0.610*	—	—	
1,200	1,080	982	900	831	771	—	—	
0.200	*0.250*	*0.300*	*0.360*	*0.420*	*0.490*	—	—	
726	588	486	408	348	300	261	230	
0.220	*0.270*	*0.320*	*0.380*	*0.450*	*0.520*	*0.600*	*0.680*	
1,633	1,470	1,336	1,225	1,131	1,050	980	919	
0.170	*0.210*	*0.260*	*0.310*	*0.360*	*0.420*	*0.480*	*0.540*	
948	768	635	533	454	392	341	300	
0.190	*0.230*	*0.280*	*0.340*	*0.390*	*0.460*	*0.520*	*0.600*	
2,133	1,920	1,745	1,600	1,477	1,371	1,280	1,200	
0.150	*0.190*	*0.230*	*0.270*	*0.310*	*0.360*	*0.420*	*0.480*	
1,481	1,200	992	833	710	612	533	469	
0.150	*0.190*	*0.230*	*0.270*	*0.310*	*0.360*	*0.420*	*0.480*	
3,333	3,000	2,727	2,500	2,308	2,143	2,000	1,875	
0.120	*0.150*	*0.180*	*0.210*	*0.250*	*0.290*	*0.340*	*0.380*	

le (ASTM A1011CS Type B, F=18 ksi, spacing 11/16")

prevents small object fall-through

4'6"	5'0"	5'6"	6'0"	6'6"	7'0"	7'6"	8'0"	备注
215	175	—	—	—	—	—	—	
0.380	*0.470*	—	—	—	—	—	—	
485	436	—	—	—	—	—	—	
0.300	*0.370*	—	—	—	—	—	—	
505	409	338	284	242	—	—	—	
0.300	*0.370*	*0.450*	*0.540*	*0.630*	—	—	—	
1,136	1,023	930	852	787	—	—	—	
0.240	*0.300*	*0.360*	*0.430*	*0.500*	—	—	—	
727	589	487	409	349	301	262	—	
0.250	*0.310*	*0.380*	*0.450*	*0.520*	*0.610*	*0.700*	—	
1,636	1,473	1,339	1,227	1,133	1,052	982	—	
0.200	*0.250*	*0.300*	*0.360*	*0.420*	*0.490*	*0.560*	—	
990	802	663	557	474	409	356	313	
0.220	*0.270*	*0.320*	*0.380*	*0.450*	*0.520*	*0.600*	*0.680*	
2,227	2,005	1,822	1,670	1,542	1,432	1,336	1,253	
0.170	*0.210*	*0.260*	*0.310*	*0.360*	*0.420*	*0.480*	*0.540*	
1,293	1,047	866	727	620	534	465	409	
0.190	*0.230*	*0.280*	*0.340*	*0.390*	*0.460*	*0.520*	*0.600*	
2,909	2,618	2,380	2,182	2,014	1,870	1,745	1,636	
0.150	*0.190*	*0.230*	*0.270*	*0.310*	*0.360*	*0.420*	*0.480*	
2,020	1,636	1,352	1,136	968	835	727	639	
0.150	*0.190*	*0.230*	*0.270*	*0.310*	*0.360*	*0.420*	*0.480*	
4,545	4,091	3,719	3,409	3,147	2,922	2,727	2,557	
0.120	*0.150*	*0.180*	*0.210*	*0.250*	*0.290*	*0.340*	*0.380*	

eel bars 1-3/16"

ultiply U/C × 1.27

5'6"	6'	7'	8'
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

—	—	—	—
—	—	—	—
—	—	—	—

84	70	—	—
0.563	*0.670*	—	—
230	211	—	—
0.451	*0.536*	—	—

125	105	—	—
0.563	*0.670*	—	—
344	316	—	—
0.451	*0.536*	—	—

130	110	81	—
0.451	*0.536*	*0.730*	—
359	329	282	—
0.360	*0.429*	*0.584*	—

196	164	121	—
0.451	*0.536*	*0.730*	—
538	493	423	—
0.360	*0.429*	*0.584*	—

188	158	116	89
0.376	*0.447*	*0.608*	*0.794*
517	474	406	355
0.300	*0.358*	*0.487*	*0.636*

282	237	174	133
0.376	*0.447*	*0.608*	*0.794*
775	711	609	533
0.300	*0.358*	*0.487*	*0.636*

384	322	237	181
0.322	*0.383*	*0.521*	*0.681*
1,055	967	829	725
0.257	*0.306*	*0.417*	*0.545*

501	421	309	237
0.282	*0.335*	*0.456*	*0.596*
1,378	1,263	1,083	947
0.225	*0.268*	*0.365*	*0.477*

634	533	392	300
0.250	*0.298*	*0.406*	*0.530*
1,744	1,599	1,370	1,199
0.200	*0.238*	*0.324*	*0.424*

783	658	483	370
0.225	*0.268*	*0.365*	*0.477*

2,153	1,974	1,692	1,480
0.180	*0.215*	*0.292*	*0.381*

acing of 1-3/16 inch for load-bearing flat steel

lges, airports, highways

4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'
277	225	186	156	133	115	100	88
0.419	*0.518*	*0.627*	*0.745*	*0.875*	*1.018*	*1.166*	*1.329*
624	561	510	468	432	401	374	351
0.335	*0.414*	*0.500*	*0.596*	*0.700*	*0.811*	*0.931*	*1.060*
433	351	290	244	208	179	156	137
0.335	*0.414*	*0.501*	*0.597*	*0.701*	*0.811*	*0.931*	*1.059*
975	877	797	731	675	627	585	548
0.268	*0.331*	*0.400*	*0.477*	*0.560*	*0.649*	*0.745*	*0.847*
624	505	418	351	299	258	225	197
0.279	*0.345*	*0.418*	*0.497*	*0.583*	*0.676*	*0.777*	*0.881*
1,404	1,263	1,148	1,053	972	902	842	790
0.224	*0.276*	*0.334*	*0.397*	*0.466*	*0.541*	*0.621*	*0.707*
849	688	568	478	407	351	306	269
0.239	*0.296*	*0.357*	*0.426*	*0.500*	*0.580*	*0.666*	*0.758*
1,910	1,719	1,563	1,433	1,323	1,228	1,146	1,075
0.192	*0.236*	*0.286*	*0.341*	*0.400*	*0.463*	*0.532*	*0.606*
1,109	898	742	624	532	458	399	351
0.210	*0.259*	*0.313*	*0.373*	*0.438*	*0.507*	*0.582*	*0.662*
2,495	2,246	2,041	1,871	1,727	1,604	1,497	1,404
0.168	*0.207*	*0.250*	*0.298*	*0.350*	*0.406*	*0.466*	*0.530*
1,733	1,404	1,160	975	830	716	624	548
0.168	*0.207*	*0.250*	*0.298*	*0.350*	*0.406*	*0.466*	*0.529*
3,899	3,509	3,190	2,924	2,699	2,506	2,339	2,193
0.134	*0.166*	*0.200*	*0.238*	*0.280*	*0.324*	*0.372*	*0.424*
2,495	2,021	1,670	1,404	1,196	1,031	898	789
0.140	*0.172*	*0.209*	*0.248*	*0.291*	*0.338*	*0.388*	*0.441*
5,614	5,053	4,593	4,211	3,887	3,609	3,368	3,158
0.112	*0.138*	*0.167*	*0.199*	*0.233*	*0.270*	*0.310*	*0.353*
4,436	3,593	2,969	2,495	2,126	1,833	1,597	1,404
0.105	*0.129*	*0.156*	*0.186*	*0.219*	*0.253*	*0.291*	*0.331*
9,981	8,983	8,166	7,485	6,910	6,416	5,988	5,614
0.084	*0.104*	*0.125*	*0.149*	*0.175*	*0.203*	*0.233*	*0.265*