



LOAD & DEFLECTION TABLE

Bar Size	Approx. Weight per sq ft	Sec. Mod Per Ft. or width	U	SPAN (Length of Bearing Bar)										
				2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	7'-0"	8'-0"
1" x 1/4"	11.7	0.533	U	1,778	1,138	790	580	444	351	284	235	198	145	111
	12.3		C	1,778	1,422	1,185	1,016	889	790	711	646	593	508	444
1" x 5/16"	15.3	0.667	U	2,222	1,422	988	726	556	439	356	294	247	181	139
	16.8		C	2,222	1,778	1,481	1,270	1,111	988	889	808	741	635	556
1" x 3/8"	18.1	0.800	U	2,667	1,707	1,185	871	667	527	427	353	296	218	167
	19.6		C	2,667	2,133	1,778	1,524	1,333	1,185	1,067	970	889	762	667
1-1/4" x 1/4"	14.5	0.833	U	2,778	1,778	1,235	907	694	549	444	367	309	227	174
	15.1		C	2,778	2,222	1,852	1,587	1,389	1,235	1,111	1,010	926	794	694
1-1/4" x 5/16"	18.8	1.042	U	3,472	2,222	1,543	1,134	868	686	556	459	386	283	217
	20.3		C	3,472	2,778	2,315	1,984	1,736	1,543	1,389	1,263	1,157	992	868
1-1/4" x 3/8"	22.2	1.250	U	4,167	2,667	1,852	1,361	1,042	823	667	551	463	340	260
	23.7		C	4,167	3,333	2,778	2,381	2,083	1,852	1,667	1,515	1,389	1,190	1,042
1-1/2" x 1/4"	17.2	1.200	U	4,000	2,560	1,778	1,306	1,000	790	640	529	444	327	250
	17.7		C	4,000	3,200	2,667	2,286	2,000	1,778	1,600	1,455	1,333	1,143	1,000
1-1/2" x 5/16"	22.3	1.500	U	5,000	3,200	2,222	1,633	1,250	988	800	661	556	408	313
	23.8		C	5,000	4,000	3,333	2,857	2,500	2,222	2,000	1,818	1,667	1,429	1,250
1-1/2" x 3/8"	26.4	1.800	U	6,000	3,840	2,667	1,959	1,500	1,185	960	793	667	490	375
	27.9		C	6,000	4,800	4,000	3,429	3,000	2,667	2,400	2,182	2,000	1,714	1,500
1-3/4" x 1/4"	20.0	1.633	U	5,444	3,484	2,420	1,778	1,361	1,075	871	720	605	444	340
	20.6		C	5,444	4,356	3,630	3,111	2,722	2,420	2,178	1,980	1,815	1,556	1,361
1-3/4" x 5/16"	25.7	2.042	U	6,806	4,356	3,025	2,222	1,701	1,344	1,089	900	756	556	425
	27.2		C	6,806	5,444	4,537	3,889	3,403	3,025	2,722	2,475	2,269	1,944	1,701
1-3/4" x 3/8"	30.5	2.450	U	8,167	5,227	3,630	2,667	2,042	1,613	1,307	1,080	907	667	510
	32.0		C	8,167	6,533	5,444	4,667	4,083	3,630	3,267	2,970	2,722	2,333	2,042
2" x 1/4"	22.8	2.133	U	7,111	4,551	3,160	2,322	1,778	1,405	1,138	940	790	580	444
	23.4		C	7,111	5,889	4,741	4,063	3,556	3,160	2,844	2,586	2,370	2,032	1,778
2" x 5/16"	29.2	2.667	U	8,889	5,889	3,951	2,902	2,222	1,756	1,422	1,175	988	726	556
	30.7		C	8,889	7,111	5,926	5,079	4,444	3,951	3,556	3,232	2,963	2,540	2,222
2" x 3/8"	34.7	3.200	U	10,667	6,827	4,741	3,483	2,667	2,107	1,707	1,410	1,185	871	667
	36.2		C	10,667	8,533	7,111	6,095	5,333	4,741	4,267	3,879	3,556	3,048	2,667
2-1/4" x 1/4"	25.6	2.700	U	9,000	5,760	4,000	2,939	2,250	1,778	1,440	1,190	1,000	735	563
	26.2		C	9,000	7,200	6,000	5,143	4,500	4,000	3,600	3,273	3,000	2,571	2,250
2-1/4" x 5/16"	32.6	3.375	U	11,250	7,200	5,000	3,673	2,813	2,222	1,800	1,488	1,250	918	703
	34.1		C	11,250	9,000	7,500	6,429	5,625	5,000	4,500	4,091	3,750	3,214	2,813
2-1/4" x 3/8"	38.8	4.050	U	13,500	8,640	6,000	4,408	3,375	2,667	2,160	1,785	1,500	1,102	844
	40.3		C	13,500	10,800	9,000	7,714	6,750	6,000	5,400	4,909	4,500	3,857	3,375
2-1/2" x 1/4"	28.3	3.333	U	11,111	7,111	4,938	3,628	2,778	2,195	1,778	1,469	1,235	907	694
	28.9		C	11,111	8,889	7,407	6,349	5,556	4,938	4,444	4,040	3,704	3,175	2,778
2-1/2" x 5/16"	36.1	4.167	U	13,889	8,889	6,173	4,535	3,472	2,743	2,222	1,837	1,543	1,134	868
	37.6		C	13,889	11,111	9,259	7,937	6,944	6,173	5,556	5,051	4,630	3,968	3,472
2-1/2" x 3/8"	42.9	5.000	U	16,667	10,667	7,407	5,442	4,167	3,292	2,667	2,204	1,852	1,361	1,042
	44.4		C	16,667	13,333	11,111	9,524	8,333	7,407	6,667	6,061	5,556	4,762	4,167
2-3/4" x 1/4"	32.0	4.033	U	13,444	8,604	5,975	4,390	3,361	2,656	2,151	1,778	1,494	1,098	840
	33.5		C	13,444	10,756	8,963	7,683	6,722	5,975	5,378	4,889	4,481	3,841	3,361
2-3/4" x 5/16"	40.1	5.042	U	16,806	10,756	7,469	5,488	4,201	3,320	2,689	2,222	1,867	1,372	1,050
	42.1		C	16,806	13,444	11,204	9,603	8,403	7,469	6,722	6,111	5,602	4,802	4,201
2-3/4" x 3/8"	47.6	6.050	U	20,167	12,907	8,963	6,585	5,042	3,984	3,227	2,667	2,241	1,646	1,260
	49.7		C	20,167	16,133	13,444	11,524	10,083	8,963	8,067	7,333	6,722	5,762	5,042

LOAD TABLE

Bar Size	Approx. Weight per	Sec. Mod Per Ft. or Width	SPAN (Length of Bearing Bar)											
			2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	7'-0"	8'-0"	
3" x 1/4"	34.8	4.800	U	16,000	10,240	7,111	5,224	4,000	3,160	2,560	2,116	1,778	1,306	1,000
	36.3		C	16,000	12,800	10,667	9,143	8,000	7,111	6,400	5,818	5,333	4,571	4,000
3" x 5/16"	43.6	6.000	U	20,000	12,800	8,889	6,531	5,000	3,951	3,200	2,645	2,222	1,633	1,250
	45.6		C	20,000	16,000	13,333	11,429	10,000	8,889	8,000	7,273	6,667	5,714	5,000
3" x 3/8"	51.8	7.200	U	24,000	15,360	10,667	7,837	6,000	4,741	3,840	3,174	2,667	1,959	1,500
	53.8		C	24,000	19,200	16,000	13,714	12,000	10,667	9,600	8,727	8,000	6,857	6,000
3-1/4" x 1/4"	37.5	5.633	U	18,778	12,018	8,346	6,132	4,694	3,709	3,004	2,483	2,086	1,533	1,174
	39.0		C	18,778	15,022	12,519	10,730	9,389	8,346	7,511	6,828	6,259	5,365	4,694
3-1/4" x 5/16"	47.0	7.042	U	23,472	15,022	10,432	7,664	5,868	4,636	3,756	3,104	2,608	1,916	1,467
	49.1		C	23,472	18,778	15,648	13,413	11,736	10,432	9,389	8,535	7,824	6,706	5,868
3-1/4" x 3/8"	55.9	8.450	U	28,167	18,027	12,519	9,197	7,042	5,564	4,507	3,725	3,130	2,299	1,760
	58.0		C	28,167	22,533	18,778	16,095	14,083	12,519	11,267	10,242	9,389	8,048	7,042
3-1/2" x 1/4"	40.3	6.533	U	21,778	13,938	9,679	7,111	5,444	4,302	3,484	2,880	2,420	1,778	1,361
	41.8		C	21,778	17,422	14,519	12,444	10,889	9,679	8,711	7,919	7,259	6,222	5,444
3-1/2" x 5/16"	50.5	8.167	U	27,222	17,422	12,099	8,889	6,806	5,377	4,356	3,600	3,025	2,222	1,701
	52.5		C	27,222	21,778	18,148	15,556	13,611	12,099	10,889	9,899	9,074	7,778	6,806
3-1/2" x 3/8"	60.1	9.800	U	32,667	20,907	14,519	10,667	8,167	6,453	5,227	4,320	3,630	2,667	2,042
	62.1		C	32,667	26,133	21,778	18,667	16,333	14,519	13,067	11,879	10,889	9,333	8,167
4" x 1/4"	45.9	8.533	U	28,444	18,204	12,642	9,288	7,111	5,619	4,551	3,761	3,160	2,322	1,778
	47.4		C	28,444	22,756	18,963	16,254	14,222	12,642	11,378	10,343	9,481	8,127	7,111
4" x 5/16"	57.4	10.667	U	35,556	22,756	15,802	11,610	8,889	7,023	5,689	4,702	3,951	2,902	2,222
	59.4		C	35,556	28,444	23,704	20,317	17,778	15,802	14,222	12,929	11,852	10,159	8,889
4" x 3/8"	68.3	12.800	U	42,667	27,307	18,963	13,932	10,667	8,428	6,827	5,642	4,741	3,483	2,667
	70.4		C	42,667	34,133	28,444	24,381	21,333	18,963	17,067	15,515	14,222	12,190	10,667
4-1/2" x 1/4"	51.4	10.800	U	38,000	23,040	16,000	11,755	9,000	7,111	5,760	4,760	4,000	2,939	2,250
	52.9		C	38,000	28,800	24,000	20,571	18,000	16,000	14,400	13,091	12,000	10,286	9,000
4-1/2" x 5/16"	64.3	13.500	U	45,000	28,800	20,000	14,694	11,250	8,889	7,200	5,950	5,000	3,673	2,813
	66.4		C	45,000	36,000	30,000	25,714	22,500	20,000	18,000	16,364	15,000	12,857	11,250
4-1/2" x 3/8"	76.6	16.200	U	54,000	34,560	24,000	17,633	13,500	10,667	8,640	7,140	6,000	4,408	3,375
	78.7		C	54,000	43,200	36,000	30,857	27,000	24,000	21,600	19,636	18,000	15,429	13,500
5" x 1/4"	56.9	13.333	U	44,444	28,444	19,753	14,512	11,111	8,779	7,111	5,877	4,938	3,628	2,778
	58.4		C	44,444	35,556	29,630	25,397	22,222	19,753	17,778	16,162	14,815	12,698	11,111
5" x 5/16"	71.2	16.667	U	55,556	35,556	24,691	18,141	13,889	10,974	8,889	7,346	6,173	4,535	3,472
	73.3		C	55,556	44,444	37,037	31,746	27,778	24,691	22,222	20,202	18,519	15,873	13,889
5" x 3/8"	84.9	20.000	U	66,667	42,667	29,630	21,769	16,667	13,169	10,667	8,815	7,407	5,442	4,167
	87.0		C	66,667	53,333	44,444	38,095	33,333	29,630	26,667	24,242	22,222	19,048	16,667
6" x 1/4"	68.0	19.200	U	64,000	40,960	28,444	20,898	16,000	12,642	10,240	8,463	7,111	5,224	4,000
	69.5		C	64,000	51,200	42,667	36,571	32,000	28,444	25,600	23,273	21,333	18,286	16,000
6" x 5/16"	85.1	24.000	U	80,000	51,200	35,556	26,122	20,000	15,802	12,800	10,579	8,889	6,531	5,000
	87.1		C	80,000	64,000	53,333	45,714	40,000	35,556	32,000	29,091	26,667	22,857	20,000
6" x 3/8"	101.5	28.800	U	96,000	61,440	42,667	31,347	24,000	18,963	15,360	12,694	10,667	7,837	6,000
	103.5		C	96,000	76,800	64,000	54,857	48,000	42,667	38,400	34,909	32,000	27,429	24,000

PANEL WIDTH (inches)

Note: H-Heavy Duty cross rods may extend 1/8" each side. Panel widths do not include these extensions.

No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1/4" Bar	1 ³ / ₁₆	2 ¹ / ₈	3 ¹ / ₁₆	4	4 ¹⁵ / ₁₆	5 ⁷ / ₈	6 ¹³ / ₁₆	7 ³ / ₄	8 ¹¹ / ₁₆	9 ⁵ / ₈	10 ⁹ / ₁₆	11 ¹ / ₂	12 ⁷ / ₁₆	13 ³ / ₈	14 ⁵ / ₁₆	15 ¹ / ₄	16 ³ / ₁₆	17 ¹ / ₈	18 ¹ / ₁₆
5/16" Bar	1 ¹ / ₄	2 ³ / ₁₆	3 ¹ / ₈	4 ¹ / ₁₆	5	5 ¹⁵ / ₁₆	6 ⁷ / ₈	7 ¹³ / ₁₆	8 ³ / ₄	9 ¹ / ₁₆	10 ⁵ / ₈	11 ⁹ / ₁₆	12 ¹ / ₂	13 ³ / ₁₆	14 ³ / ₈	15 ⁵ / ₁₆	16 ¹ / ₄	17 ³ / ₁₆	18 ¹ / ₈
3/8" Bar	1 ⁵ / ₁₆	2 ¹ / ₄	3 ³ / ₁₆	4 ¹ / ₈	5 ¹ / ₁₆	6	6 ¹⁵ / ₁₆	7 ⁷ / ₈	8 ¹³ / ₁₆	9 ³ / ₄	10 ¹¹ / ₁₆	11 ⁵ / ₈	12 ⁹ / ₁₆	13 ¹ / ₂	14 ⁷ / ₁₆	15 ³ / ₈	16 ⁵ / ₁₆	17 ¹ / ₄	18 ³ / ₁₆
No. of Bars	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
1/4" Bar	19	19 ¹⁵ / ₁₆	20 ⁷ / ₈	21 ¹³ / ₁₆	22 ³ / ₄	23 ¹¹ / ₁₆	24 ⁵ / ₈	25 ⁹ / ₁₆	26 ¹ / ₂	27 ¹ / ₁₆	28 ³ / ₈	29 ⁵ / ₁₆	30 ¹ / ₄	31 ³ / ₁₆	32 ¹ / ₈	33 ¹ / ₁₆	34	34 ¹⁵ / ₁₆	35 ⁷ / ₈
5/16" Bar	19 ¹ / ₁₆	20	20 ¹⁵ / ₁₆	21 ⁷ / ₈	22 ¹³ / ₁₆	23 ³ / ₄	24 ¹¹ / ₁₆	25 ⁵ / ₈	26 ⁹ / ₁₆	27 ¹ / ₂	28 ¹ / ₁₆	29 ³ / ₈	30 ⁵ / ₁₆	31 ¹ / ₄	32 ³ / ₁₆	33 ¹ / ₈	34 ¹ / ₁₆	35	35 ¹⁵ / ₁₆
3/8" Bar	19 ¹ / ₈	20 ¹ / ₁₆	21	21 ¹⁵ / ₁₆	22 ⁷ / ₈	23 ¹³ / ₁₆	24 ³ / ₄	25 ¹¹ / ₁₆	26 ⁵ / ₈	27 ⁹ / ₁₆	28 ¹ / ₂	29 ¹ / ₁₆	30 ³ / ₈	31 ⁵ / ₁₆	32 ¹ / ₄	33 ³ / ₁₆	34 ¹ / ₈	35 ¹ / ₁₆	36