

Heavy Duty Grating

30 Space Load Table

Use this table when evaluating spans & loads for the following types of Heavy Duty steel grating:
30-W-4 and 30-W-2



H-25 Load



H-20 Load



H-15 Load



Auto Traffic



5 Ton Forklift



3 Ton Forklift



1 Ton Forklift

Bearing Bar size	Section Modulus psf	Moment of Inertia psf	Approx. Weight psf	Maximum Safe Span						
				H-25 Load	H-20 Load	H-15 Load	Auto Traffic	5 Ton Forklift	3 Ton Forklift	1 Ton Forklift
1 x 1/4 1 x 5/16 1 x 3/8	0.267 0.333 0.400	0.133 0.167 0.200	6.6 7.9 9.3	0'-9" 0'-11" 1'-0"	0'-9" 0'-10" 0'-11"	0'-8" 0'-8" 0'-9"	0'-10" 0'-11" 1'-1"	0'-6" 0'-7" 0'-8"	0'-5" 0'-6" 0'-6"	0'-6" 0'-7" 0'-8"
1-1/4 x 1/4 1-1/4 x 5/16 1-1/4 x 3/8	0.417 0.521 0.625	0.260 0.326 0.391	7.9 9.6 11.3	1'-0" 1'-1" 1'-3"	0'-11" 1'-0" 1'-1"	0'-10" 0'-10" 1'-0"	1'-1" 1'-3" 1'-6"	0'-8" 0'-9" 0'-10"	0'-6" 0'-7" 0'-8"	0'-8" 0'-9" 0'-11"
1-1/2 x 1/4 1-1/2 x 5/16 1-1/2 x 3/8	0.600 0.750 0.900	0.450 0.563 0.675	9.3 11.3 13.4	1'-2" 1'-4" 1'-6"	1'-1" 1'-3" 1'-4"	1'-0" 1'-1" 1'-2"	1'-5" 1'-9" 2'-0"	0'-9" 0'-10" 1'-0"	0'-8" 0'-9" 0'-10"	0'-11" 1'-1" 1'-3"
1-3/4 x 1/4 1-3/4 x 5/16 1-3/4 x 3/8	0.817 1.021 1.225	0.715 0.893 1.072	10.6 13.0 15.4	1'-5" 1'-7" 1'-9"	1'-3" 1'-5" 1'-7"	1'-2" 1'-3" 1'-5"	1'-10" 2'-2" 2'-7"	0'-11" 1'-0" 1'-2"	0'-10" 0'-11" 1'-1"	1'-2" 1'-5" 1'-8"
2 x 1/4 2 x 5/16 2 x 3/8	1.067 1.333 1.600	1.067 1.333 1.600	12.0 14.7 17.4	1'-7" 1'-10" 2'-0"	1'-6" 1'-8" 1'-10"	1'-4" 1'-6" 1'-8"	2'-3" 2'-9" 3'-3"	1'-1" 1'-3" 1'-5"	1'-0" 1'-2" 1'-4"	1'-6" 1'-10" 2'-2"
2-1/4 x 1/4 2-1/4 x 5/16 2-1/4 x 3/8	1.350 1.688 2.025	1.519 1.898 2.278	13.4 16.4 19.5	1'-10" 2'-0" 2'-3"	1'-8" 1'-10" 2'-1"	1'-6" 1'-9" 1'-11"	2'-10" 3'-5" 3'-11"	1'-3" 1'-5" 1'-8"	1'-2" 1'-5" 1'-8"	1'-10" 2'-3" 2'-8"
2-1/2 x 1/4 2-1/2 x 5/16 2-1/2 x 3/8	1.667 2.083 2.500	2.083 2.604 3.125	14.7 18.1 21.5	2'-0" 2'-3" 2'-6"	1'-10" 2'-1" 2'-5"	1'-8" 2'-0" 2'-3"	3'-5" 4'-2" 4'-5"	1'-5" 1'-8" 1'-11"	1'-5" 1'-8" 2'-0"	2'-3" 2'-9" 3'-3"
3 x 1/4 3 x 5/16 3 x 3/8	2.400 3.000 3.600	3.600 4.500 5.400	17.4 21.5 25.6	2'-6" 2'-10" 3'-3"	2'-4" 2'-8" 3'-1"	2'-2" 2'-7" 3'-0"	4'-7" 5'-0" 5'-3"	1'-11" 2'-3" 2'-7"	1'-11" 2'-4" 2'-9"	3'-2" 3'-11" 4'-8"
3-1/2 x 1/4 3-1/2 x 5/16 3-1/2 x 3/8	3.267 4.083 4.900	5.717 7.146 8.575	20.2 24.9 29.7	3'-0" 3'-6" 4'-0"	2'-10" 3'-5" 3'-11"	2'-9" 3'-4" 3'-10"	5'-5" 5'-10" 6'-2"	2'-5" 2'-11" 3'-5"	2'-6" 3'-1" 3'-7"	4'-3" 5'-1" 5'-5"
4 x 1/4 4 x 5/16 4 x 3/8	4.267 5.333 6.400	8.533 10.667 12.800	22.9 28.3 33.8	3'-7" 4'-1" 4'-11"	3'-6" 4'-2" 4'-10"	3'-7" 4'-2" 4'-10"	6'-2" 6'-8" 7'-1"	3'-0" 3'-8" 4'-4"	3'-2" 3'-11" 4'-8"	5'-5" 5'-10" 6'-2"
4-1/2 x 1/4 4-1/2 x 5/16 4-1/2 x 3/8	5.400 6.750 8.100	12.150 15.188 18.225	25.6 31.7 37.8	4'-4" 5'-2" 5'-7"	4'-3" 5'-1" 5'-7"	4'-2" 5'-1" 5'-8"	6'-11" 7'-6" 7'-11"	3'-8" 4'-6" 5'-4"	3'-11" 4'-10" 5'-8"	6'-1" 6'-7" 7'-0"
5 x 1/4 5 x 3/8 5 x 1/2	6.667 10.000 13.333	16.667 25.000 33.333	28.3 41.9 55.5	5'-1" 6'-3" 6'-10"	5'-0" 6'-3" 6'-10"	5'-0" 6'-4" 6'-11"	7'-8" 8'-10" 9'-8"	4'-6" 6'-1" 6'-9"	4'-10" 6'-4" 7'-0"	6'-9" 7'-9" 8'-7"
6 x 1/4 6 x 3/8 6 x 1/2	9.600 14.400 19.200	28.800 43.200 57.600	33.8 50.1 66.4	6'-6" 7'-5" 8'-2"	6'-6" 7'-6" 8'-3"	6'-7" 7'-7" 8'-4"	9'-3" 10'-7" 11'-8"	6'-3" 7'-4" 8'-1"	6'-8" 7'-7" 8'-5"	8'-2" 9'-4" 10'-3"
7 x 1/4 7 x 3/8 7 x 1/2	13.067 19.600 26.133	45.733 68.600 91.467	39.2 58.2 77.3	7'-7" 8'-8" 9'-6"	7'-7" 8'-8" 9'-7"	7'-9" 8'-10" 9'-9"	10'-9" 12'-4" 13'-7"	7'-6" 8'-7" 9'-5"	7'-9" 8'-11" 9'-9"	9'-6" 10'-11" 12'-0"