

Heavy Duty Grating

15 Space Load Table

Use this table when evaluating spans & loads for the following types of Heavy Duty steel grating:
15-W-4 and 15-W-2



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	0.533 0.667 0.800	0.267 0.333 0.400	12.0 14.7 17.4	1'-1" 1'-3" 1'-4"	1'-0" 1'-2" 1'-3"	0'-10" 1'-0" 1'-1"	1'-2" 1'-5" 1'-7"	0'-8" 0'-9" 0'-10"	0'-7" 0'-8" 0'-8"	0'-8" 0'-9" 0'-11"
1-1/4 x 1/4 1-1/4 x 5/16 1-1/4 x 3/8	0.833 1.042 1.250	0.521 0.651 0.781	14.7 18.1 21.5	1'-4" 1'-6" 1'-8"	1'-3" 1'-5" 1'-6"	1'-1" 1'-3" 1'-4"	1'-8" 1'-11" 2'-1"	0'-10" 1'-0" 1'-1"	0'-9" 0'-10" 0'-11"	0'-11" 1'-1" 1'-4"
1-1/2 x 1/4 1-1/2 x 5/16 1-1/2 x 3/8	1.200 1.500 1.800	0.900 1.125 1.350	17.4 21.5 25.6	1'-8" 1'-10" 2'-0"	1'-6" 1'-8" 1'-10"	1'-4" 1'-6" 1'-8"	2'-3" 2'-6" 2'-9"	1'-1" 1'-3" 1'-4"	0'-11" 1'-1" 1'-3"	1'-3" 1'-7" 1'-10"
1-3/4 x 1/4 1-3/4 x 5/16 1-3/4 x 3/8	1.633 2.042 2.450	1.429 1.786 2.144	20.2 24.9 29.7	1'-11" 2'-2" 2'-5"	1'-9" 2'-0" 2'-3"	1'-7" 1'-10" 2'-1"	2'-10" 3'-2" 3'-6"	1'-3" 1'-6" 1'-9"	1'-2" 1'-5" 1'-8"	1'-8" 2'-1" 2'-6"
2 x 1/4 2 x 5/16 2 x 3/8	2.133 2.667 3.200	2.133 2.667 3.200	22.9 28.3 33.8	2'-3" 2'-6" 2'-10"	2'-0" 2'-4" 2'-8"	1'-10" 2'-2" 2'-6"	3'-6" 3'-11" 4'-3"	1'-7" 1'-10" 2'-1"	1'-5" 1'-9" 2'-1"	2'-2" 2'-8" 3'-2"
2-1/4 x 1/4 2-1/4 x 5/16 2-1/4 x 3/8	2.700 3.375 4.050	3.038 3.797 4.556	25.6 31.7 37.8	2'-7" 2'-11" 3'-4"	2'-4" 2'-9" 3'-2"	2'-2" 2'-7" 3'-0"	4'-2" 4'-5" 4'-9"	1'-10" 2'-2" 2'-7"	1'-9" 2'-2" 2'-6"	2'-8" 3'-4" 3'-11"
2-1/2 x 1/4 2-1/2 x 5/16 2-1/2 x 3/8	3.333 4.167 5.000	4.167 5.208 6.250	28.3 35.1 41.9	2'-11" 3'-5" 3'-10"	2'-9" 3'-3" 3'-9"	2'-7" 3'-1" 3'-7"	4'-7" 4'-11" 5'-3"	2'-2" 2'-8" 3'-1"	2'-2" 2'-7" 3'-1"	3'-4" 4'-1" 4'-5"
3 x 1/4 3 x 5/16 3 x 3/8	4.800 6.000 7.200	7.200 9.000 10.800	33.8 41.9 50.1	3'-9" 4'-5" 4'-8"	3'-7" 4'-4" 4'-7"	3'-6" 4'-2" 4'-7"	5'-6" 5'-11" 6'-4"	3'-0" 3'-7" 4'-3"	3'-0" 3'-8" 4'-4"	4'-8" 5'-0" 5'-4"
3-1/2 x 1/4 3-1/2 x 5/16 3-1/2 x 3/8	6.533 8.167 9.800	11.433 14.292 17.150	39.2 48.7 58.2	4'-9" 5'-1" 5'-5"	4'-7" 5'-1" 5'-4"	4'-6" 5'-1" 5'-5"	6'-5" 6'-11" 7'-4"	3'-11" 4'-9" 5'-2"	3'-11" 4'-10" 5'-3"	5'-5" 5'-10" 6'-3"
4 x 1/4 4 x 5/16 4 x 3/8	8.533 10.667 12.800	17.067 21.333 25.600	44.6 55.5 66.4	5'-4" 5'-9" 6'-1"	5'-4" 5'-9" 6'-1"	5'-4" 5'-9" 6'-2"	7'-4" 7'-11" 8'-5"	4'-11" 5'-6" 5'-11"	5'-1" 5'-8" 6'-0"	6'-3" 6'-8" 7'-2"
4-1/2 x 1/4 4-1/2 x 5/16 4-1/2 x 3/8	10.800 13.500 16.200	24.300 30.375 36.450	50.1 62.3 74.6	6'-0" 6'-6" 6'-10"	6'-0" 6'-6" 6'-10"	6'-0" 6'-6" 6'-11"	8'-3" 8'-11" 9'-6"	5'-9" 6'-3" 6'-7"	5'-11" 6'-4" 6'-9"	7'-0" 7'-7" 8'-0"
5 x 1/4 5 x 3/8 5 x 1/2	13.333 20.000 26.667	33.333 50.000 66.667	55.5 82.7 109.9	6'-8" 7'-7" 8'-4"	6'-8" 7'-8" 8'-5"	6'-9" 7'-8" 8'-5"	9'-2" 10'-6" 11'-7"	6'-5" 7'-4" 8'-1"	6'-7" 7'-6" 8'-3"	7'-9" 8'-11" 9'-10"
6 x 1/4 6 x 3/8 6 x 1/2	19.200 28.800 38.400	57.600 86.400 115.200	66.4 99.0 131.7	8'-0" 9'-1" 10'-0"	8'-0" 9'-2" 10'-1"	8'-1" 9'-2" 10'-2"	11'-1" 12'-8" 13'-11"	7'-8" 8'-10" 9'-9"	7'-10" 9'-0" 9'-11"	9'-4" 10'-9" 11'-10"
7 x 1/4 7 x 3/8 7 x 1/2	26.133 39.200 52.267	91.467 137.200 182.933	77.3 115.4 153.4	9'-3" 10'-7" 11'-8"	9'-4" 10'-8" 11'-9"	9'-5" 10'-9" 11'-10"	12'-11" 14'-9" 16'-3"	9'-0" 10'-4" 11'-4"	9'-2" 10'-6" 11'-7"	10'-11" 12'-6" 13'-9"