

# Heavy Duty Grating

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

## 15 Space Load Table



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