

Heavy Duty Load Table: TYPE W-15-4

HOW TO SPECIFY HEAVY DUTY GRATING

Heavy Duty Welded Steel Grating shall be as manufactured by Grating Pacific, 3651 Sausalito Street, Los Alamitos, CA 90720, (800) 321-4314. Grating shall be type W-22-4 with 3-1/2" x 3/8" bearing bars spaced at 1-3/8" inches on center and 1" x 3/8" cross bars spaced at 4 inches on center. Weight per square foot 42.3 lbs. Heavy Duty Grating shall be capable of carrying a H-20 load on a 4'-10" clear span. Open ends of grating shall be banded. Heavy Duty Grating shall be GALVANIZED after fabrication.

LOAD TABLE: TYPE W-15-4

BEARING BARS 15/16" ON CENTER, CROSS BARS 4" ON CENTER (2" ON CENTER CROSS BARS ALSO AVAILABLE)



BEARING BAR SIZE	WEIGHT LBS. PER SQ. FT.	SECTION MOD. PER FT. OF WIDTH	CROSS BAR SIZE	H-20 TRUCK	H-15 TRUCK	H-10 TRUCK	AUTO TRAFFIC	5 TON FORKLIFT	3 TON FORKLIFT	1 TON FORKLIFT
				MAXIMUM SAFE SPAN						
1 x 1/4	12.4	0.533	SEE	1'-1"	0'-11"	0'-9"	1'-7"	0'-8"	0'-7"	0'-8"
1 x 5/16	15.2	0.667		1'-2"	1'-0"	0'-10"	1'-10"	0'-9"	0'-8"	0'-9"
1 x 3/8	18.1	0.800		1'-3"	1'-1"	0'-11"	1'-11"	0'-10"	0'-8"	0'-11"
1-1/4 x 1/4	15.3	0.833	CROSS	1'-3"	1'-1"	0'-11"	2'-2"	0'-10"	0'-9"	0'-11"
1-1/4 x 5/16	18.5	1.042		1'-5"	1'-3"	1'-0"	2'-5"	1'-0"	0'-10"	1'-1"
1-1/4 x 3/8	22.3	1.250		1'-6"	1'-4"	1'-2"	2'-8"	1'-1"	0'-11"	1'-4"
1-1/2 x 1/4	18.1	1.200	BAR	1'-6"	1'-4"	1'-2"	2'-10"	1'-1"	0'-11"	1'-3"
1-1/2 x 5/16	22.4	1.500		1'-8"	1'-6"	1'-4"	3'-2"	1'-3"	1'-1"	1'-5"
1-1/2 x 3/8	26.6	1.800		1'-10"	1'-8"	1'-6"	3'-6"	1'-4"	1'-3"	1'-10"
1-3/4 x 1/4	21.0	1.633	SELECTION	1'-9"	1'-7"	1'-5"	3'-7"	1'-3"	1'-2"	1'-8"
1-3/4 x 5/16	25.9	2.042		2'-0"	1'-10"	1'-8"	4'-0"	1'-6"	1'-5"	2'-1"
1-3/4 x 3/8	30.9	2.450		2'-3"	2'-1"	1'-11"	4'-3"	1'-9"	1'-8"	2'-6"
2 x 1/4	23.8	2.133	CHART	2'-0"	1'-10"	1'-9"	4'-3"	1'-7"	1'-5"	2'-2"
2 x 5/16	29.5	2.667		2'-4"	2'-2"	2'-1"	4'-7"	1'-10"	1'-9"	2'-8"
2 x 3/8	35.1	3.200		2'-8"	2'-6"	2'-5"	4'-11"	2'-1"	2'-1"	3'-2"
2-1/4 x 1/4	26.7	2.700	HEAVY	2'-4"	2'-2"	2'-1"	4'-10"	1'-10"	1'-9"	2'-8"
2-1/4 x 5/16	33.0	3.375		2'-9"	2'-7"	2'-6"	5'-2"	2'-2"	2'-2"	3'-4"
2-1/4 x 3/8	39.4	4.050		3'-2"	3'-0"	2'-11"	5'-6"	2'-7"	2'-6"	4'-0"
2-1/2 x 1/4	29.5	3.333	DUTY	2'-9"	2'-7"	2'-6"	5'-4"	2'-2"	2'-2"	3'-4"
2-1/2 x 5/16	36.6	4.167		3'-3"	3'-1"	3'-0"	5'-9"	2'-8"	2'-7"	4'-1"
2-1/2 x 3/8	43.7	5.000		3'-9"	3'-7"	3'-7"	6'-2"	3'-1"	3'-1"	4'-5"
3 x 1/4	35.2	4.800	GRATING	3'-7"	3'-6"	3'-5"	6'-5"	3'-0"	3'-0"	4'-8"
3 x 5/16	43.9	6.000		4'-4"	4'-2"	4'-2"	6'-11"	3'-7"	3'-8"	5'-0"
3 x 3/8	52.3	7.200		4'-7"	4'-8"	4'-8"	7'-4"	4'-3"	4'-4"	5'-4"
3-1/2 x 1/4	40.9	6.533	PAGE	4'-7"	4'-6"	4'-6"	7'-6"	3'-11"	3'-11"	5'-5"
3-1/2 x 5/16	51.0	8.167		5'-1"	5'-1"	5'-2"	8'-1"	4'-9"	4'-10"	5'-10"
3-1/2 x 3/8	60.8	9.800		5'-4"	5'-5"	5'-6"	8'-7"	5'-2"	5'-3"	6'-3"
4 x 1/4	46.7	8.533		5'-4"	5'-5"	5'-5"	8'-7"	4'-11"	5'-1"	6'-3"
4 x 5/16	58.1	10.667		5'-9"	5'-10"	5'-11"	9'-3"	5'-6"	5'-8"	6'-9"
4 x 3/8	69.4	12.800		6'-2"	6'-2"	6'-3"	9'-8"	5'-11"	6'-0"	7'-2"

Continuous Spans

The safe spans indicated for heavy duty gratings and bridge decking are based upon simple span calculations. When the grating is properly anchored and the span is continuous over 3 or more supports, the above spans may be increased by a multiple of 1.20.

