

Heavy Duty Load Table: TYPE W-38-4

LOAD TABLE: TYPE W-38-4

**BEARING BARS 2-3/8" 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	5.7	0.211	SEE	0'-11"	0'-9"	0'-7"	1'-0"	0'-7"	0'-5"	0'-5"
1 x 5/16	6.8	0.263		1'-0"	0'-9"	0'-7"	1'-2"	0'-7"	0'-5"	0'-6"
1 x 3/8	8.0	0.316		1'-0"	0'-10"	0'-8"	1'-7"	0'-8"	0'-6"	0'-7"
1-1/4 x 1/4	6.8	0.329	CROSS	1'-0"	0'-10"	0'-8"	1'-7"	0'-8"	0'-6"	0'-7"
1-1/4 x 5/16	8.3	0.411		1'-1"	0'-10"	0'-8"	1'-7"	0'-8"	0'-7"	0'-9"
1-1/4 x 3/8	9.7	0.493		1'-1"	0'-11"	0'-9"	1'-10"	0'-9"	0'-7"	0'-10"
1-1/2 x 1/4	8.0	0.474	BAR	1'-1"	0'-11"	0'-9"	1'-10"	0'-9"	0'-7"	0'-10"
1-1/2 x 5/16	9.8	0.592		1'-2"	1'-0"	0'-10"	2'-2"	0'-10"	0'-8"	1'-0"
1-1/2 x 3/8	11.5	0.711		1'-3"	1'-1"	0'-11"	2'-6"	0'-11"	0'-9"	1'-2"
1-3/4 x 1/4	9.2	0.645	SELECTION	1'-3"	1'-0"	0'-11"	2'-4"	0'-10"	0'-9"	1'-0"
1-3/4 x 5/16	11.2	0.806		1'-4"	1'-2"	1'-0"	2'-10"	0'-11"	0'-10"	1'-3"
1-3/4 x 3/8	13.2	0.967		1'-5"	1'-3"	1'-2"	3'-2"	1'-1"	1'-0"	1'-6"
2 x 1/4	10.4	0.842	CHART	1'-4"	1'-2"	1'-0"	3'-0"	1'-0"	0'-11"	1'-4"
2 x 5/16	12.7	1.053		1'-6"	1'-4"	1'-3"	3'-6"	1'-1"	1'-0"	1'-7"
2 x 3/8	15.0	1.263		1'-8"	1'-6"	1'-4"	3'-10"	1'-3"	1'-2"	1'-11"
2-1/4 x 1/4	11.5	1.066	HEAVY	1'-6"	1'-4"	1'-3"	3'-8"	1'-1"	1'-1"	1'-8"
2-1/4 x 5/16	14.1	1.332		1'-8"	1'-6"	1'-5"	4'-2"	1'-3"	1'-3"	2'-0"
2-1/4 x 3/8	16.7	1.599		1'-10"	1'-8"	1'-8"	4'-5"	1'-6"	1'-5"	2'-5"
2-1/2 x 1/4	12.7	1.316	DUTY	1'-8"	1'-6"	1'-5"	4'-3"	1'-3"	1'-3"	2'-0"
2-1/2 x 5/16	15.6	1.645		1'-11"	1'-9"	1'-8"	4'-7"	1'-6"	1'-6"	2'-6"
2-1/2 x 3/8	18.5	1.974		2'-1"	2'-0"	1'-11"	4'-11"	1'-8"	1'-9"	2'-11"
3 x 1/4	15.2	1.895	GRATING	2'-1"	1'-11"	1'-10"	5'-2"	1'-8"	1'-8"	2'-10"
3 x 5/16	19.1	2.368		2'-4"	2'-3"	2'-3"	5'-6"	1'-11"	2'-0"	3'-6"
3 x 3/8	22.5	2.842		2'-8"	2'-7"	2'-7"	5'-11"	2'-3"	2'-5"	4'-2"
3-1/2 x 1/4	17.5	2.579	PAGE	2'-6"	2'-5"	2'-5"	6'-0"	2'-1"	2'-2"	3'-9"
3-1/2 x 5/16	22.0	3.224		2'-11"	2'-10"	2'-11"	6'-5"	2'-6"	2'-8"	4'-8"
3-1/2 x 3/8	26.0	3.868		3'-4"	3'-4"	3'-5"	6'-10"	2'-11"	3'-2"	5'-3"
4 x 1/4	19.9	3.368		3'-0"	2'-11"	3'-0"	6'-10"	2'-7"	2'-9"	4'-11"
4 x 5/16	24.9	4.211		3'-7"	3'-7"	3'-8"	7'-5"	3'-2"	3'-5"	5'-7"
4 x 3/8	29.5	5.053		4'-2"	4'-2"	4'-4"	7'-10"	3'-8"	4'-0"	6'-0"
5 x 1/4	24.5	5.263		4'-3"	4'-3"	4'-6"	8'-7"	3'-10"	4'-2"	6'-6"
5 x 3/8	36.5	7.895		5'-10"	5'-11"	6'-2"	9'-10"	5'-6"	6'-0"	7'-6"
5 x 1/2	48.0	10.526		6'-5"	6'-7"	6'-9"	10'-10"	6'-4"	6'-8"	8'-3"
6 x 1/4	29.6	7.579		5'-10"	5'-11"	6'-4"	10'-1"	5'-4"	5'-11"	7'-10"
6 x 3/8	43.5	11.368		7'-0"	7'-2"	7'-5"	11'-9"	6'-11"	7'-3"	9'-0"
6 x 1/2	57.3	15.158		7'-9"	7'-10"	8'-2"	13'-0"	7'-8"	8'-0"	9'-11"
7 x 1/4	34.3	10.316		7'-2"	7'-3"	7'-6"	12'-0"	7'-1"	7'-5"	9'-2"
7 x 3/8	50.5	15.474		8'-2"	8'-4"	8'-7"	13'-9"	8'-1"	8'-5"	10'-6"
7 x 1/2	66.6	20.632		9'-0"	9'-2"	9'-6"	15'-2"	8'-11"	9'-4"	11'-7"

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.

