



# GRATING PACIFIC

## 30 SPACE (1-7/8") HEAVY DUTY GRATING LOAD TABLE

Use this table when evaluating spans and loads of the following types of steel grating: **30-W-4, 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 (inches)	Section Modulus per foot of width	Moment of Inertia per foot of width	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	0.267	0.133	6.6	0'-9"	0'-9"	0'-8"	0'-10"	0'-6"	0'-5"	0'-6"
1 x 5/16	0.333	0.167	7.9	0'-11"	0'-10"	0'-8"	0'-11"	0'-7"	0'-6"	0'-7"
1 x 3/8	0.400	0.200	9.3	1'-0"	0'-11"	0'-9"	1'-1"	0'-8"	0'-6"	0'-8"
1-1/4 x 1/4	0.417	0.260	7.9	1'-0"	0'-11"	0'-10"	1'-1"	0'-8"	0'-6"	0'-8"
1-1/4 x 5/16	0.521	0.326	9.6	1'-1"	1'-0"	0'-11"	1'-3"	0'-9"	0'-7"	0'-9"
1-1/4 x 3/8	0.625	0.391	11.3	1'-3"	1'-1"	1'-0"	1'-6"	0'-10"	0'-8"	0'-11"
1-1/2 x 1/4	0.600	0.450	9.3	1'-2"	1'-1"	1'-0"	1'-5"	0'-9"	0'-8"	0'-11"
1-1/2 x 5/16	0.750	0.563	11.3	1'-4"	1'-3"	1'-1"	1'-9"	0'-10"	0'-9"	1'-1"
1-1/2 x 3/8	0.900	0.675	13.4	1'-6"	1'-4"	1'-2"	2'-0"	1'-0"	0'-10"	1'-3"
1-3/4 x 1/4	0.817	0.715	10.6	1'-5"	1'-3"	1'-2"	1'-10"	0'-11"	0'-10"	1'-2"
1-3/4 x 5/16	1.021	0.893	13.0	1'-7"	1'-5"	1'-3"	2'-2"	1'-0"	0'-11"	1'-5"
1-3/4 x 3/8	1.225	1.072	15.4	1'-9"	1'-7"	1'-5"	2'-7"	1'-2"	1'-1"	1'-8"
2 x 1/4	1.067	1.067	12.0	1'-7"	1'-6"	1'-4"	2'-3"	1'-1"	1'-0"	1'-6"
2 x 5/16	1.333	1.333	14.7	1'-10"	1'-8"	1'-6"	2'-9"	1'-3"	1'-2"	1'-10"
2 x 3/8	1.600	1.600	17.4	2'-0"	1'-10"	1'-8"	3'-3"	1'-5"	1'-4"	2'-2"
2-1/4 x 1/4	1.350	1.519	13.4	1'-10"	1'-8"	1'-6"	2'-10"	1'-3"	1'-2"	1'-10"
2-1/4 x 5/16	1.688	1.898	16.4	2'-0"	1'-10"	1'-9"	3'-5"	1'-5"	1'-5"	2'-3"
2-1/4 x 3/8	2.025	2.278	19.5	2'-3"	2'-1"	1'-11"	3'-11"	1'-8"	1'-8"	2'-8"
2-1/2 x 1/4	1.667	2.083	14.7	2'-0"	1'-10"	1'-8"	3'-5"	1'-5"	1'-5"	2'-3"
2-1/2 x 5/16	2.083	2.604	18.1	2'-3"	2'-1"	2'-0"	4'-2"	1'-8"	1'-8"	2'-9"
2-1/2 x 3/8	2.500	3.125	21.5	2'-6"	2'-5"	2'-3"	4'-5"	1'-11"	2'-0"	3'-3"
3 x 1/4	2.400	3.600	17.4	2'-6"	2'-4"	2'-2"	4'-7"	1'-11"	1'-11"	3'-2"
3 x 5/16	3.000	4.500	21.5	2'-10"	2'-8"	2'-7"	5'-0"	2'-3"	2'-4"	3'-11"
3 x 3/8	3.600	5.400	25.6	3'-3"	3'-1"	3'-0"	5'-3"	2'-7"	2'-9"	4'-8"
3-1/2 x 1/4	3.267	5.717	20.2	3'-0"	2'-10"	2'-9"	5'-5"	2'-5"	2'-6"	4'-3"
3-1/2 x 5/16	4.083	7.146	24.9	3'-6"	3'-5"	3'-4"	5'-10"	2'-11"	3'-1"	5'-1"
3-1/2 x 3/8	4.900	8.575	29.7	4'-0"	3'-11"	3'-10"	6'-2"	3'-5"	3'-7"	5'-5"
4 x 1/4	4.267	8.533	22.9	3'-7"	3'-6"	3'-7"	6'-2"	3'-0"	3'-2"	5'-5"
4 x 5/16	5.333	10.667	28.3	4'-1"	4'-2"	4'-2"	6'-8"	3'-8"	3'-11"	5'-10"
4 x 3/8	6.400	12.800	33.8	4'-11"	4'-10"	4'-10"	7'-1"	4'-4"	4'-8"	6'-2"
4-1/2 x 1/4	5.400	12.150	25.6	4'-4"	4'-3"	4'-2"	6'-11"	3'-8"	3'-11"	6'-1"
4-1/2 x 5/16	6.750	15.188	31.7	5'-2"	5'-1"	5'-1"	7'-6"	4'-6"	4'-10"	6'-7"
4-1/2 x 3/8	8.100	18.225	37.8	5'-7"	5'-7"	5'-8"	7'-11"	5'-4"	5'-8"	7'-0"
5 x 1/4	6.667	16.667	28.3	5'-1"	5'-0"	5'-0"	7'-8"	4'-6"	4'-10"	6'-9"
5 x 3/8	10.000	25.000	41.9	6'-3"	6'-3"	6'-4"	8'-10"	6'-1"	6'-4"	7'-9"
5 x 1/2	13.333	33.333	55.5	6'-10"	6'-10"	6'-11"	9'-8"	6'-9"	7'-0"	8'-7"
6 x 1/4	9.600	28.800	33.8	6'-6"	6'-6"	6'-7"	9'-3"	6'-3"	6'-8"	8'-2"
6 x 3/8	14.400	43.200	50.1	7'-5"	7'-6"	7'-7"	10'-7"	7'-4"	7'-7"	9'-4"
6 x 1/2	19.200	57.600	66.4	8'-2"	8'-3"	8'-4"	11'-8"	8'-1"	8'-5"	10'-3"
7 x 1/4	13.067	45.733	39.2	7'-7"	7'-7"	7'-9"	10'-9"	7'-6"	7'-9"	9'-6"
7 x 3/8	19.600	68.600	58.2	8'-8"	8'-8"	8'-10"	12'-4"	8'-7"	8'-11"	10'-11"
7 x 1/2	26.133	91.467	77.3	9'-6"	9'-7"	9'-9"	13'-7"	9'-5"	9'-9"	12'-0"