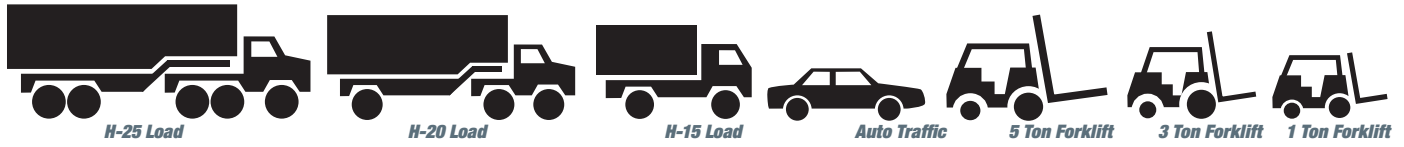


Heavy Duty Grating

Use this table when evaluating spans & loads for the following types of Heavy Duty steel grating:
22-W-4 and 22-W-2

22 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	0.364	0.182	8.5	0'-11"	0'-10"	0'-9"	0'-11"	0'-7"	0'-6"	0'-6"
1 x 5/16	0.455	0.227	10.4	1'-0"	0'-11"	0'-10"	1'-1"	0'-8"	0'-6"	0'-7"
1 x 3/8	0.545	0.273	12.2	1'-1"	1'-0"	0'-11"	1'-3"	0'-9"	0'-7"	0'-9"
1-1/4 x 1/4	0.568	0.355	10.4	1'-2"	1'-0"	0'-11"	1'-4"	0'-9"	0'-7"	0'-9"
1-1/4 x 5/16	0.710	0.444	12.7	1'-3"	1'-2"	1'-0"	1'-6"	0'-10"	0'-8"	0'-11"
1-1/4 x 3/8	0.852	0.533	15.0	1'-5"	1'-3"	1'-1"	1'-9"	0'-11"	0'-9"	1'-1"
1-1/2 x 1/4	0.818	0.614	12.2	1'-5"	1'-3"	1'-1"	1'-9"	0'-11"	0'-9"	1'-0"
1-1/2 x 5/16	1.023	0.767	15.0	1'-7"	1'-5"	1'-3"	2'-1"	1'-0"	0'-11"	1'-3"
1-1/2 x 3/8	1.227	0.920	17.8	1'-8"	1'-6"	1'-4"	2'-5"	1'-1"	1'-0"	1'-6"
1-3/4 x 1/4	1.114	0.974	14.1	1'-8"	1'-6"	1'-3"	2'-3"	1'-1"	0'-11"	1'-4"
1-3/4 x 5/16	1.392	1.218	17.3	1'-10"	1'-8"	1'-6"	2'-8"	1'-2"	1'-1"	1'-8"
1-3/4 x 3/8	1.670	1.462	20.6	2'-0"	1'-10"	1'-8"	3'-0"	1'-4"	1'-3"	1'-11"
2 x 1/4	1.455	1.455	16.0	1'-10"	1'-8"	1'-6"	2'-10"	1'-3"	1'-2"	1'-9"
2 x 5/16	1.818	1.818	19.7	2'-1"	1'-11"	1'-9"	3'-4"	1'-5"	1'-5"	2'-1"
2 x 3/8	2.182	2.182	23.4	2'-4"	2'-1"	2'-0"	3'-8"	1'-8"	1'-7"	2'-6"
2-1/4 x 1/4	1.841	2.071	17.8	2'-1"	1'-11"	1'-9"	3'-5"	1'-6"	1'-5"	2'-2"
2-1/4 x 5/16	2.301	2.589	22.0	2'-4"	2'-2"	2'-0"	4'-0"	1'-9"	1'-8"	2'-8"
2-1/4 x 3/8	2.761	3.107	26.2	2'-8"	2'-6"	2'-4"	4'-3"	2'-0"	2'-0"	3'-2"
2-1/2 x 1/4	2.273	2.841	19.7	2'-4"	2'-2"	2'-0"	4'-2"	1'-8"	1'-8"	2'-7"
2-1/2 x 5/16	2.841	3.551	24.3	2'-8"	2'-6"	2'-5"	4'-6"	2'-0"	2'-0"	3'-3"
2-1/2 x 3/8	3.409	4.261	28.9	3'-0"	2'-10"	2'-9"	4'-9"	2'-4"	2'-4"	3'-10"
3 x 1/4	3.273	4.909	23.4	2'-11"	2'-9"	2'-8"	5'-0"	2'-3"	2'-3"	3'-8"
3 x 5/16	4.091	6.136	28.9	3'-5"	3'-3"	3'-2"	5'-4"	2'-9"	2'-9"	4'-7"
3 x 3/8	4.909	7.364	34.5	3'-11"	3'-9"	3'-8"	5'-8"	3'-2"	3'-4"	4'-11"
3-1/2 x 1/4	4.455	7.795	27.1	3'-8"	3'-6"	3'-5"	5'-10"	2'-11"	3'-0"	5'-0"
3-1/2 x 5/16	5.568	9.744	33.6	4'-4"	4'-2"	4'-1"	6'-3"	3'-7"	3'-8"	5'-5"
3-1/2 x 3/8	6.682	11.693	40.1	4'-10"	4'-10"	4'-10"	6'-8"	4'-2"	4'-5"	5'-9"
4 x 1/4	5.818	11.636	30.8	4'-5"	4'-4"	4'-3"	6'-8"	3'-9"	3'-10"	5'-9"
4 x 5/16	7.273	14.545	38.2	5'-2"	5'-2"	5'-2"	7'-2"	4'-6"	4'-9"	6'-2"
4 x 3/8	8.727	17.455	45.6	5'-6"	5'-6"	5'-6"	7'-7"	5'-3"	5'-5"	6'-7"
4-1/2 x 1/4	7.364	16.568	34.5	5'-4"	5'-3"	5'-3"	7'-6"	4'-7"	4'-10"	6'-5"
4-1/2 x 5/16	9.205	20.710	42.8	5'-9"	5'-9"	5'-10"	8'-1"	5'-7"	5'-9"	6'-11"
4-1/2 x 3/8	11.045	24.852	51.2	6'-2"	6'-2"	6'-2"	8'-7"	5'-11"	6'-1"	7'-5"
5 x 1/4	9.091	22.727	38.2	5'-11"	6'-0"	6'-0"	8'-4"	5'-7"	5'-11"	7'-2"
5 x 3/8	13.636	34.091	56.8	6'-9"	6'-10"	6'-10"	9'-6"	6'-7"	6'-10"	8'-3"
5 x 1/2	18.182	45.455	75.3	7'-6"	7'-6"	7'-7"	10'-6"	7'-3"	7'-6"	9'-1"
6 x 1/4	13.091	39.273	45.6	7'-1"	7'-2"	7'-2"	10'-0"	6'-11"	7'-2"	8'-7"
6 x 3/8	19.636	58.909	67.9	8'-1"	8'-2"	8'-3"	11'-5"	7'-11"	8'-2"	9'-10"
6 x 1/2	26.182	78.545	90.1	8'-11"	9'-0"	9'-1"	12'-7"	8'-9"	9'-0"	10'-10"
7 x 1/4	17.818	62.364	53.1	8'-3"	8'-4"	8'-5"	11'-8"	8'-1"	8'-4"	10'-1"
7 x 3/8	26.727	93.545	79.0	9'-5"	9'-6"	9'-7"	13'-4"	9'-3"	9'-6"	11'-6"
7 x 1/2	35.636	124.727	105.0	10'-5"	10'-6"	10'-7"	14'-8"	10'-2"	10'-6"	12'-8"