

Bar Size	Sec. Mod. Per Ft. Of Width**	Moment of Inertia**	Cross Bar Size	Maximum Safe Clear Span, Inches - Partially Distributed Load			
				1 Ton	3 Ton	5 Ton	H-15/H-20
1" x 1/4"	.211	.105	3/8" Dia.	5"	5"	6"	7"
1" x 3/8"	.316	.158	3/8" Dia.	7"	6"	7"	8"
1-1/4" x 1/4"	.329	.206	3/8" Dia.	7"	6"	7"	9"
1-1/4" x 3/8"	.493	.308	1/2" Dia.	10"	7"	9"	11"
1-1/2" x 1/4"	.474	.355	3/8" Dia.	10"	7"	9"	10"
1-1/2" x 5/16"	.592	.444	1/2" Dia.	12"	8"	10"	12"
1-1/2" x 3/8"	.711	.533	1/2" Dia.	14"	9"	11"	13"
1-3/4" x 1/4"	.645	.564	3/8" Dia.	12"	9"	10"	12"
1-3/4" x 3/8"	.967	.846	1/2" Dia.	18"	12"	13"	15"
2" x 1/4"	.842	.842	3/8" Dia.	16"	11"	12"	14"
2" x 5/16"	1.053	1.053	1/2" Dia.	19"	12"	13"	16"
2" x 3/8"	1.263	1.263	1/2" Dia.	23"	14"	15"	18"
2-1/4" x 1/4"	1.066	1.199	3/8" Dia.	20"	13"	13"	16"
2-1/4" x 3/8"	1.599	1.799	1/2" Dia.	29"	17"	17"	20"
2-1/2" x 1/4"	1.316	1.645	3/8" Dia.	24"	15"	15"	18"
2-1/2" x 5/16"	1.645	2.056	1/2" Dia.	30"	18"	18"	21"
2-1/2" x 3/8"	1.974	2.467	1/2" Dia.	35"	21"	20"	24"
3" x 1/4"	1.895	2.842	3/8" Dia.	34"	20"	20"	23"
3" x 5/16"	2.368	3.553	1/2" Dia.	42"	24"	23"	27"
3" x 3/8"	2.842	4.263	1/2" Dia.	50"	29"	27"	31"
3-1/2" x 1/4"	2.579	4.513	3/8" Dia.	45"	26"	25"	29"
3-1/2" x 3/8"	3.868	6.770	1/2" Dia.	67"	38"	35"	40"
4" x 1/4"	3.368	6.737	3/8" Dia.	59"	33"	31"	35"
4" x 5/16"	4.211	8.422	1/2" Dia.	73"	41"	38"	43"
4" x 3/8"	5.053	10.106	1/2" Dia.	86"*	48"	44"	50"
4-1/2" x 1/4"	4.263	9.593	1/2" Dia.	74"	41"	38"	43"
4-1/2" x 3/8"	6.395	14.389	1/2" Dia.	96"	60"	55"	60"
5" x 1/4"	5.263	13.159	1/2" Dia.	91"	50"	46"	51"
5" x 5/16"	6.579	16.449	1/2" Dia.	96"	62"	56"	62"
5" x 3/8"	7.895	19.738	1/2" Dia.	96"	74"	66"	72"
6" x 1/4"	7.579	22.739	1/2" Dia.	96"	71"	64"	70"
6" x 5/16"	9.474	28.423	1/2" Dia.	96"	88"	79"	85"
6" x 3/8"	11.368	34.108	1/2" Dia.	96"	96"	94"	96"

* Span limited to 1/400 of span = Deflection.

** Based on 5.053 bars/ft of grating width. Bearing bars 2-3/8" center to center.