

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"	.267	.133	3/8" Dia.	6"	5"	6"	8"
1" x 3/8"	.400	.200	1/2" Dia.	8"	6"	8"	9"
1-1/4" x 1/4"	.417	.260	3/8" Dia.	8"	6"	8"	10"
1-1/4" x 3/8"	.625	.391	1/2" Dia.	11"	8"	10"	12"
1-1/2" x 1/4"	.600	.450	3/8" Dia.	11"	8"	9"	12"
1-1/2" x 5/16"	.750	.563	1/2" Dia.	13"	9"	10"	13"
1-1/2" x 3/8"	.900	.675	1/2" Dia.	15"	10"	12"	14"
1-3/4" x 1/4"	.817	.715	3/8" Dia.	14"	10"	11"	14"
1-3/4" x 3/8"	1.225	1.072	1/2" Dia.	20"	13"	14"	17"
2" x 1/4"	1.067	1.067	3/8" Dia.	18"	12"	13"	16"
2" x 5/16"	1.333	1.333	1/2" Dia.	22"	14"	15"	18"
2" x 3/8"	1.600	1.600	1/2" Dia.	26"	16"	17"	20"
2-1/4" x 1/4"	1.350	1.519	3/8" Dia.	22"	14"	15"	18"
2-1/4" x 3/8"	2.025	2.278	1/2" Dia.	32"	20"	20"	23"
2-1/2" x 1/4"	1.667	2.083	3/8" Dia.	27"	17"	17"	20"
2-1/2" x 5/16"	2.083	2.604	1/2" Dia.	33"	20"	20"	24"
2-1/2" x 3/8"	2.500	3.125	1/2" Dia.	39"	24"	23"	27"
3" x 1/4"	2.400	3.600	3/8" Dia.	38"	23"	23"	26"
3" x 5/16"	3.000	4.500	1/2" Dia.	47"	28"	27"	31"
3" x 3/8"	3.600	5.400	1/2" Dia.	56"	33"	31"	36"
3-1/2" x 1/4"	3.267	5.717	3/8" Dia.	51"	30"	29"	33"
3-1/2" x 3/8"	4.900	8.575	1/2" Dia.	75"*	43"	41"	46"
4" x 1/4"	4.267	8.533	3/8" Dia.	66"	38"	36"	41"
4" x 5/16"	5.333	10.667	1/2" Dia.	82"	47"	44"	50"
4" x 3/8"	6.400	12.800	1/2" Dia.	91"*	56"	52"	58"
4-1/2" x 1/4"	5.400	12.150	1/2" Dia.	83"	47"	44"	50"
4-1/2" x 3/8"	8.100	18.225	1/2" Dia.	96"	69"	64"	71"
5" x 1/4"	6.667	16.667	1/2" Dia.	96"	58"	54"	60"
5" x 5/16"	8.333	20.833	1/2" Dia.	96"	71"	66"	73"
5" x 3/8"	10.000	25.000	1/2" Dia.	96"	85"	78"	86"
6" x 1/4"	9.600	28.800	1/2" Dia.	96"	82"	75"	83"
6" x 5/16"	12.000	36.000	1/2" Dia.	96"	96"	93"	96"
6" x 3/8"	14.400	43.200	1/2" Dia.	96"	96"	96"	96"

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

** Based on 6.4 bars/ft of grating width. Bearing bars 1-7/8" center to center.