

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"	.364	.182	3/8" Dia.	6"	6"	7"	9"
1" x 3/8"	.545	.273	3/8" Dia.	9"	7"	9"	11"
1-1/4" x 1/4"	.568	.355	3/8" Dia.	9"	7"	9"	11"
1-1/4" x 3/8"	.852	.533	3/8" Dia.	13"	9"	11"	13"
1-1/2" x 1/4"	.818	.614	3/8" Dia.	12"	9"	11"	13"
1-1/2" x 5/16"	1.023	.767	3/8" Dia.	15"	11"	12"	15"
1-1/2" x 3/8"	1.227	.920	3/8" Dia.	18"	12"	13"	16"
1-3/4" x 1/4"	1.114	.974	3/8" Dia.	16"	11"	13"	15"
1-3/4" x 3/8"	1.670	1.462	1/2" Dia.	23"	15"	16"	20"
2" x 1/4"	1.455	1.455	3/8" Dia.	21"	14"	15"	18"
2" x 5/16"	1.818	1.818	3/8" Dia.	25"	17"	17"	21"
2" x 3/8"	2.182	2.182	1/2" Dia.	30"	19"	20"	24"
2-1/4" x 1/4"	1.841	2.071	3/8" Dia.	26"	17"	18"	21"
2-1/4" x 3/8"	2.761	3.106	1/2" Dia.	38"	24"	24"	28"
2-1/2" x 1/4"	2.273	2.841	3/8" Dia.	31"	20"	20"	24"
2-1/2" x 5/16"	2.841	3.551	3/8" Dia.	39"	24"	24"	29"
2-1/2" x 3/8"	3.409	4.261	1/2" Dia.	46"	28"	28"	33"
3" x 1/4"	3.273	4.909	3/8" Dia.	45"	27"	27"	32"
3" x 5/16"	4.091	6.136	3/8" Dia.	55"	33"	33"	38"
3" x 3/8"	4.909	7.363	1/2" Dia.	64"*	40"	38"	44"
3-1/2" x 1/4"	4.455	7.795	3/8" Dia.	60"	36"	35"	41"
3-1/2" x 3/8"	6.682	11.693	1/2" Dia.	81"*	53"	50"	58"
4" x 1/4"	5.818	11.636	3/8" Dia.	78"	46"	45"	51"
4" x 5/16"	7.273	14.545	3/8" Dia.	91"*	57"	54"	62"
4" x 3/8"	8.727	17.454	1/2" Dia.	96"	68"	64"	73"
4-1/2" x 1/4"	7.364	16.568	3/8" Dia.	96"	58"	55"	63"
4-1/2" x 3/8"	11.045	24.851	1/2" Dia.	96"	85"	80"	89"*
5" x 1/4"	9.091	22.727	3/8" Dia.	96"	71"	67"	76"
5" x 5/16"	11.364	28.408	1/2" Dia.	96"	88"	82"	92"
5" x 3/8"	13.636	34.090	1/2" Dia.	96"	96"	96"	96"
6" x 1/4"	13.091	39.272	1/2" Dia.	96"	96"	94"	96"
6" x 5/16"	16.364	49.089	1/2" Dia.	96"	96"	96"	96"
6" x 3/8"	19.636	58.907	1/2" Dia.	96"	96"	96"	96"

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

** Based on 8.727 bars/ft of grating width. Bearing bars 1-3/8" center to center.