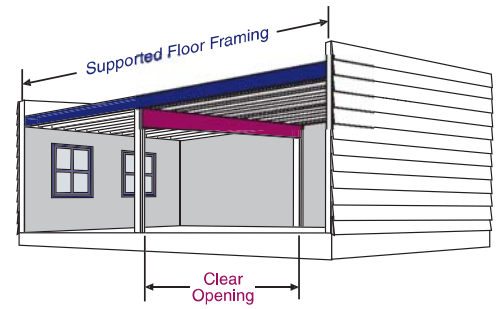


Girder Beam Size Selection Tables

1. The top line of each cell indicates the allowable member size for 3.0 inches of bearing. (blue)
2. The bottom line of each cell indicates the allowable member size for 1.5 inches of bearing. (green)
3. The tables provide a size that works for the loading conditions given. If the actual loading conditions you are using are less than those given, use the loading conditions in the table that are closest to, and higher than, those you have and select your header from the table.



Master Plank Selection Table for Girder Beams								
Floor Loading	Clear Opening	Span of Supported Floor Framing						
		20'	24'	26'	28'	30'	32'	36'
Live 40 PSF Dead 12 PSF LDF 1.00	8'	3-1/2 x 7-1/4 3-1/2 x 7-1/4	3-1/2 x 7-1/4 3-1/2 x 7-1/4	3-1/2 x 7-1/4 3-1/2 x 7-1/4	3-1/2 x 7-1/4 3-1/2 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4
	9'	3-1/2 x 9-1/4 3-1/2 x 9-1/4	3-1/2 x 9-1/4 3-1/2 x 9-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4
	10'	3-1/2 x 9-1/4 3-1/2 x 9-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/2 7 x 9-1/4	3-1/2 x 9-1/2 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4
	11'	3-1/2 x 9-1/4 3-1/2 x 9-1/4	3-1/2 x 9-1/2 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4
	12'	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-7/8 7 x 9-1/4	3-1/2 x 14 7 x 9-1/2
	13'	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-7/8 7 x 9-1/4	3-1/2 x 11-7/8 7 x 9-1/2	3-1/2 x 14 7 x 11-1/4	3-1/2 x 14 7 x 11-1/4	7 x 11-1/4
	14'	3-1/2 x 11-7/8 7 x 9-1/4	3-1/2 x 14 7 x 11-1/4	3-1/2 x 14 7 x 11-1/4	3-1/2 x 14 7 x 11-1/4	3-1/2 x 14 7 x 11-1/4	3-1/2 x 14 7 x 11-1/4	7 x 11-1/4
	15'	3-1/2 x 14 7 x 11-1/4	3-1/2 x 14 7 x 11-1/4	3-1/2 x 14 7 x 11-1/4	3-1/2 x 14 7 x 11-1/4	7 x 11-1/4	7 x 11-7/8	7 x 11-7/8
	16'	3-1/2 x 14 7 x 11-1/4	3-1/2 x 14 7 x 11-1/4	3-1/2 x 16 7 x 11-1/4	3-1/2 x 16 7 x 11-7/8	7 x 11-7/8	7 x 14	7 x 14
	17'	3-1/2 x 14 7 x 11-1/4	3-1/2 x 16 7 x 11-7/8	3-1/2 x 16 7 x 14	7 x 14	7 x 14	7 x 14	7 x 14
18'	3-1/2 x 16 7 x 11-7/8	3-1/2 x 16 7 x 14	7 x 14	7 x 14	7 x 14	7 x 14	7 x 16	
Live 40 PSF Dead 20 PSF LDF 1.00	8'	3-1/2 x 7-1/4 3-1/2 x 7-1/4	3-1/2 x 7-1/4 3-1/2 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4
	9'	3-1/2 x 9-1/4 3-1/2 x 9-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 11-1/4 7 x 9-1/4
	10'	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/4 7 x 7-1/4	3-1/2 x 9-1/2 7 x 9-1/4	3-1/2 x 9-1/2 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4
	11'	3-1/2 x 9-1/2 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-7/8 7 x 9-1/4	7 x 9-1/4
	12'	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-7/8 7 x 9-1/4	3-1/2 x 14 7 x 9-1/4	3-1/2 x 14 7 x 9-1/2	7 x 11-1/4
	13'	3-1/2 x 11-1/4 7 x 9-1/4	3-1/2 x 11-7/8 7 x 9-1/2	3-1/2 x 14 7 x 11-1/4	3-1/2 x 14 7 x 11-1/4	7 x 11-1/4	7 x 11-1/4	7 x 11-1/4
	14'	3-1/2 x 11-7/8 7 x 9-1/2	3-1/2 x 14 7 x 11-1/4	3-1/2 x 14 7 x 11-1/4	7 x 11-1/4	7 x 11-1/4	7 x 11-1/4	7 x 11-7/8
	15'	3-1/2 x 14 7 x 11-1/4	3-1/2 x 14 7 x 11-1/4	7 x 11-1/4	7 x 11-7/8	7 x 11-7/8	7 x 11-7/8	7 x 14
	16'	3-1/2 x 14 7 x 11-1/4	3-1/2 x 16 7 x 11-7/8	7 x 11-7/8	7 x 14	7 x 14	7 x 14	7 x 14
	17'	3-1/2 x 16 7 x 11-7/8	7 x 14	7 x 14	7 x 14	7 x 14	7 x 14	7 x 14
18'	3-1/2 x 16 7 x 14	7 x 14	7 x 14	7 x 14	7 x 14	7 x 16	7 x 16	

See notes on page 12, items 1 and 2, for deflection limits used in this table. Items 12, 13 and 14 also apply. See table on page 3 for Multiple Member Connections.