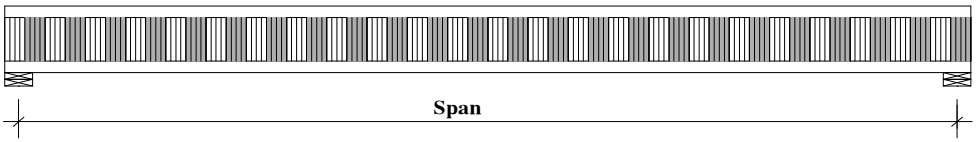
HTS Beams by *Twin River Beam*

Residential Floor Span Charts



LL = 40psf DL = 10psf - LL Deflection = L/360 TL Deflection = L/240				
Beam Name	**12" o/c**	**16" o/c**	**19.2" o/c**	**24" o/c**
8.75" HTS24	18'- 07"	15'- 03"	12'- 09"	10'- 03"
10.75" HTS24	22'- 05"	19'- 02"	16'- 00"	12'- 10"
12.75" HTS24	25'- 11"	23'- 01"	19'- 03"	15'- 05"
14.75" HTS24	29'- 02"	26'- 03"	22'- 07"	18'- 01"
16.75" HTS24	32'- 03"	28'- 08"	25'- 10"	20'- 08"
11.25" HTS34	24'- 11"	22'- 01"	20'- 03"	16'- 04"
13.25" HTS34	29'- 02"	26'- 01"	24'- 02"	19'- 08"
15.25" HTS34	33'- 03"	29'- 09"	27'- 08"	23'- 01"
17.25" HTS34	37'- 00"	33'- 03"	31'- 00"	26'- 07"
19.25" HTS34	42'- 05"	38'- 02"	34'- 02"	30'- 01"
17.75" HTS36DW	45'- 09"	41'- 03"	38'- 07"	35'- 06"
19.25" HTS36DW	50'- 01"	45'- 02"	42'- 03"	39'- 00"
16" HTS44	38'- 02"	34'- 01"	31'- 08"	26'- 11"
18" HTS44	42'- 11"	38'- 05"	32'- 11"	26'- 06"
20" HTS44	47'- 03"	42'-2"	39'- 04"	34'- 09"
22" HTS44	51'- 01"	45'- 11"	42'- 10"	38'- 09"
20" HTS46DW	55'- 08"	50'- 02"	46'- 11"	43'- 02"
22" HTS46DW	60'- 04"	54'- 06"	51'- 00"	47'- 00"

LL = 40psf DL = 10psf - LL Deflection = L/480 TL Deflection = L/240				
Beam Name	**12" o/c**	**16" o/c**	**19.2" o/c**	**24" o/c**
8.75" HTS24	16'- 06"	14'- 06"	12'- 09"	10'- 03"
10.75" HTS24	20'- 00"	17'- 09"	16'- 00"	12'- 10"
12.75" HTS24	23'- 03"	20'- 09"	19'- 03"	15'- 05"
14.75" HTS24	26'- 03"	23'- 06"	21'- 11"	18'- 01"
16.75" HTS24	29'- 01"	26'- 01"	24'- 04"	20'- 08"
11.25" HTS34	22'- 01"	19'- 06"	18'- 00"	16'- 02"
13.25" HTS34	26'- 01"	23'- 02"	21'- 05"	19'- 05"
15.25" HTS34	29'- 09"	26'- 07"	24'- 08"	22'- 06"
17.25" HTS34	33'- 03"	29'- 09"	27'- 09"	25'- 04"
19.25" HTS34	36'- 06"	32'- 10"	30'- 07"	28'- 00"
17.75" HTS36DW	39'- 09"	35'- 09"	33'- 05"	30'- 08"
19.25" HTS36DW	40'- 06"	39'- 03"	36'- 09"	33'- 10"
16" HTS44	34'- 01"	30'- 04"	28'- 02"	25'- 07"
18" HTS44	38'- 03"	34'- 02"	31'- 09"	28'- 10"
20" HTS44	42'- 02"	37'- 09"	35'- 02"	32'- 02"
22" HTS44	45'- 11"	41'- 03"	38'- 05"	35'- 02"
20" HTS46DW	50'- 02"	45'- 01"	42'- 02"	38'- 08"
22" HTS46DW	54'- 06"	49'- 01"	45'- 10"	42'- 02"

LL = 40psf DL = 15psf - LL Deflection = L/360 TL Deflection = L/240				
Beam Name	**12" o/c**	**16" o/c**	**19.2" o/c**	**24" o/c**
8.75" HTS24	18'- 07"	14'- 01"	11'- 09"	09'- 05"
10.75" HTS24	22'- 05"	17'- 08"	14'- 08"	11'- 09"
12.75" HTS24	25'- 11"	21'- 03"	17'- 07"	14'- 02"
14.75" HTS24	29'- 02"	24'- 11"	20'- 09"	16'- 07"
16.75" HTS24	31'- 09"	27'- 06"	23'- 10"	19'- 01"
11.25" HTS34	24'- 11"	22'- 01"	18'- 09"	15'- 02"
13.25" HTS34	29'- 02"	26'- 01"	22'- 07"	18'- 02"
15.25" HTS34	33'- 03"	29'- 09"	26'- 06"	21'- 03"
17.25" HTS34	37'- 00"	33'- 03"	30'- 06"	24'- 06"
19.25" HTS34	40'- 06"	36'- 04"	33'- 02"	27'- 08"
17.75" HTS36DW	40'- 06"	39'- 09"	37'- 02"	34'- 03"
19.25" HTS36DW	40'- 06"	40'- 06"	40'- 06"	37'- 07"
16" HTS44	38'- 02"	34'- 01"	30'- 10"	24'- 11"
18" HTS44	42'- 08"	38'- 03"	35'- 04"	28'- 05"
20" HTS44	47'- 00"	42'- 02"	39'- 04"	32'- 00"
22" HTS44	51'- 01"	45'- 11"	42'- 11"	35'- 08"
20" HTS46DW	55'- 08"	50'- 02"	46'- 11"	41'- 00"
22" HTS46DW	60'- 04"	54'- 06"	51'- 00"	45'- 09"

LL = 40psf DL = 15psf - LL Deflection = L/480 TL Deflection = L/240				
Beam Name	**12" o/c**	**16" o/c**	**19.2" o/c**	**24" o/c**
8.75" HTS24	16'- 06"	14'- 06"	11'- 09"	09'- 05"
10.75" HTS24	20'- 00"	17'- 08"	14'- 08"	11'- 09"
12.75" HTS24	23'- 03"	20'- 09"	17'- 09"	14'- 02"
14.75" HTS24	26'- 03"	23'- 06"	20'- 09"	16'- 07"
16.75" HTS24	29'- 01"	26'- 01"	23'- 10"	19'- 01"
11.25" HTS34	22'- 01"	19'- 06"	18'- 00"	15'- 02"
13.25" HTS34	26'- 01"	23'- 02"	21'- 05"	18'- 02"
15.25" HTS34	29'- 09"	26'- 07"	24'- 08"	21'- 03"
17.25" HTS34	33'- 03"	29'- 09"	27'- 09"	24'- 06"
19.25" HTS34	36'- 06"	32'- 10"	30'- 07"	27'- 08"
17.75" HTS36DW	39'- 09"	35'- 09"	33'- 05"	30'- 08"
19.25" HTS36DW	40'- 06"	39'- 03"	36'- 09"	33'- 10"
16" HTS44	34'- 01"	30'- 04"	28'- 02"	24'- 11"
18" HTS44	38'- 03"	34'- 02"	31'- 09"	28'- 05"
20" HTS44	42'- 02"	37'- 09"	35'- 02"	32'- 00"
22" HTS44	45'- 11"	41'- 03"	38'- 05"	35'- 02"
20" HTS46DW	50'- 02"	45'- 01"	42'- 02"	38'- 08"
22" HTS46DW	54'- 06"	49'- 01"	45'- 10"	42'- 02"

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LL = 40psf DL = 25psf - LL Deflection = L/360 TL Deflection = L/240				
Beam Name	**12" o/c**	**16" o/c**	**19.2" o/c**	**24" o/c**
8.75" HTS24	16'- 02"	12'- 02"	10'- 02"	8'- 02"
10.75" HTS24	20'- 03"	15'- 03"	12'- 09"	10'- 02"
12.75" HTS24	24'- 06"	18'- 04"	15'- 04"	12'- 03"
14.75" HTS24	27'- 09"	21'- 06"	17'- 11"	14'- 04"
16.75" HTS24	29'- 08"	24'- 08"	20'- 07"	16'- 05"
11.25" HTS34	23'- 01"	19'- 09"	16'- 06"	13'- 06"
13.25" HTS34	29'- 06"	23'- 08"	19'- 10"	16'- 00"
15.25" HTS34	33'- 06"	27'- 09"	23'- 02"	18'- 08"
17.25" HTS34	37'- 04"	31'- 11"	26'- 08"	21'- 04"
19.25" HTS34	41'- 00"	35'- 08"	30'- 01"	24'- 02"
17.25" HTS36DW	44'- 04"	39'- 10"	37'- 04"	31'- 11"
19.25" HTS36DW	48'- 06"	43'- 09"	40'- 11"	36'- 01"
16" HTS44	37'- 00"	31'- 11"	26'- 09"	21'- 08"
18" HTS44	41'- 05"	36'- 07"	30'- 07"	24'- 07"
20" HTS44	45'- 07"	40'- 11"	34'- 06"	27'- 08"
22" HTS44	49'- 07"	44'- 07"	38'- 06"	30'- 10"
20" HTS46DW	50'- 02"	48'- 08"	45'- 06"	37'- 09"
22" HTS46DW	58'- 08"	52'- 11"	49'- 06"	42'- 02"

LL = 40psf DL = 25psf - LL Deflection = L/480 TL Deflection = L/240				
Beam Name	**12" o/c**	**16" o/c**	**19.2" o/c**	**24" o/c**
8.75" HTS24	16'- 02"	12'- 02"	10'- 02"	8'- 02"
10.75" HTS24	20'- 01"	15'- 03"	12'- 09"	10'- 02"
12.75" HTS24	23'- 04"	18'- 04"	15'- 04"	12'- 03"
14.75" HTS24	26'- 04"	21'- 06"	17'- 11"	14'- 04"
16.75" HTS24	29'- 02"	24'- 08"	20'- 07"	16'- 05"
11.25" HTS34	23'- 01"	19'- 09"	16'- 06"	13'- 06"
13.25" HTS34	27'- 02"	23'- 08"	19'- 10"	16'- 00"
15.25" HTS34	31'- 00"	27'- 07"	23'- 02"	18'- 08"
17.25" HTS34	34'- 07"	30'- 11"	26'- 08"	21'- 04"
19.25" HTS34	38'- 00"	34'- 01"	30'- 01"	24'- 02"
17.25" HTS36DW	41'- 01"	37'- 00"	34'- 06"	31'- 09"
19.25" HTS36DW	45'- 00"	40'- 06"	37'- 11"	34'- 10"
16" HTS44	34'- 01"	30'- 04"	26'- 09"	21'- 08"
18" HTS44	38'- 03"	34'- 02"	30'- 07"	24'- 07"
20" HTS44	42'- 02"	37'- 09"	34'- 06"	27'- 08"
22" HTS44	45'- 11"	41'- 03"	38'- 05"	30'- 10"
20" HTS46DW	50'- 02"	45'- 01"	42'- 01"	37'- 09"
22" HTS46DW	54'- 06"	49'- 01"	45'- 10"	42'- 02"

Span Charts have been generated based on the following criteria:

1. Spans shown are based on center line to center line of bearings:
2. Span shown assume a minimum bearing length of 1 3/4" at end bearing and 3 1/2" at intermediate bearings;
3. Spans shown assume a glued and nailed Subfloor. Subfloor material to be 19/32" OSB for joist spacing less than or equal to 19.2" o/c and 23/32" OSB for joist spacing exceeding 19.2" o/c;
4. Spans shown assume there is no ceiling, blocking or strapping attached to the underside of the joist;
5. For multiple span joists the minimum ratio of the shorter span to the longer span shall be 0.50
6. Long term deflection under dead load, which includes the effects of creep, has not been considered;
7. Spans shown reflect minimum requirements, and may not satisfy customer requirements. **Please see our notes on Floor Performance**;

For loading conditions not shown, please contact

Twin River Beam Company

www.twinriverbeam.com

Effective Date: 20-06-2016