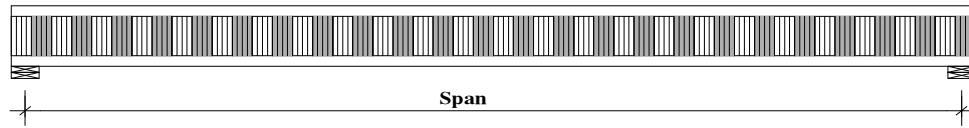


HTS Beams by *Twin River Beam*

Flat Roof Spans



Beam Name	LL = 20psf DL = 15psf LL Deflection = L/240 TL Deflection = L/180						LL = 25psf DL = 15psf - LL Deflection = L/240 TL Deflection = L/180					
	12" o/c	16" o/c	24" o/c	48" o/c	60" o/c	72" o/c	12" o/c	16" o/c	24" o/c	48" o/c	60" o/c	72" o/c
12.75" HTS24	31'-09"	28'-07"	22'-11"				30'-03"	27'-03"	19'-10"			
14.75" HTS24	35'-08"	32'-02"	26'-10"				34'-00"	30'-07"	23'-03"			
16.75" HTS24	39'-04"	35'-02"	28'-09"				37'-06"	32'-09"	26'-08"			
13.25" HTS34	41'-07"	37'-04"	28'-03"	13'-02"			39'-07"	35'-07"	24'-06"	11'-06"		
15.25" HTS34	46'-10"	41'-10"	33'-02"	15'-03"			44'-08"	38'-11"	28'-09"	13'-03"		
17.25" HTS34	51'-09"	44'-10"	36'-07"	17'-05"			48'-02"	41'-09"	33'-00"	15'-02"		
19.25" HTS34	55'-01"	47'-09"	38'-11"	19'-08"			51'-03"	44'-05"	36'-03"	17'-01"		
17.25" HTS36DW	61'-01"	55'-03"	46'-01"	26'-00"	20'-10"	17'-05"	58'-03"	52'-06"	42'-10"	22'-07"	18'-01"	15'-02"
19.25" HTS36DW	66'-07"	60'-00"	49'-00"	29'-05"	23'-07"	19'-08"	63'-07"	55'-10"	45'-07"	25'-06"	20'-05"	17'-01"
16" HTS44	52'-00"	46'-10"	37'-11"	17'-10"	14'-07"	12'-05"	49'-07"	44'-07"	33'-00"	15'-08"	12'-11"	11'-01"
18" HTS44	57'-10"	52'-01"	43'-06"	20'-02"	16'-04"	13'-10"	55'-01"	49'-08"	37'-10"	17'-08"	14'-04"	12'-02"
20" HTS44	63'-04"	57'-02"	47'-03"	22'-08"	18'-03"	15'-04"	60'-05"	53'-10"	42'-09"	19'-09"	16'-00"	13'-06"
22" HTS44	68'-08"	61'-01"	49'-11"	25'-02"	20'-03"	17'-00"	65'-06"	56'-11"	46'-06"	21'-11"	17'-08"	14'-10"
20" HTS46DW	74'-06"	67'-05"	58'-04"	30'-10"	24'-09"	20'-09"	71'-01"	64'-03"	55'-03"	26'-09"	21'-06"	18'-01"
22" HTS46DW	80'-08"	73'-00"	62'-09"	34'-05"	27'-07"	23'-01"	77'-00"	69'-08"	58'-05"	29'-10"	24'-00"	20'-01"

Beam Name	LL = 30psf DL = 15psf LL Deflection = L/240 TL Deflection = L/180						LL = 35psf DL = 15psf LL Deflection = L/240 TL Deflection = L/180					
	12" o/c	16" o/c	24" o/c	48" o/c	60" o/c	72" o/c	12" o/c	16" o/c	24" o/c	48" o/c	60" o/c	72" o/c
12.75" HTS24	29'-00"	26'-00"	17'-06"				27'-10"	23'-06"	15'-08"			
14.75" HTS24	32'-07"	28'-09"	20'-06"				31'-04"	27'-02"	18'-04"			
16.75" HTS24	35'-06"	30'-09"	23'-06"				33'-07"	29'-01"	21'-01"			
13.25" HTS34	37'-10"	32'-04"	21'-08"	10'-03"			37'-10"	32'-04"	21'-08"	10'-03"		
15.25" HTS34	42'-02"	36'-07"	25'-05"	11'-09"			39'-11"	34'-00"	22'-09"	10'-07"		
17.25" HTS34	45'-03"	39'-03"	29'-02"	13'-04"			42'-10"	37'-01"	26'-01"	12'-01"		
19.25" HTS34	48'-02"	41'-09"	33'-00"	15'-01"			45'-07"	39'-06"	29'-06"	13'-06"		
17.25" HTS36DW	55'-11"	49'-04"	40'-03"	19'-11"	16'-00"	13'-04"	53'-10"	46'-08"	38'-01"	17'-10"		
19.25" HTS36DW	60'-07"	52'-06"	42'-10"	22'-06"	18'-01"	15'-01"	57'-04"	49'-08"	40'-06"	20'-02"		
16" HTS44	47'-05"	42'-07"	29'-03"	14'-00"	11'-07"	10'-00"	45'-08"	38'-11"	26'-03"	12'-09"	10'-07"	
18" HTS44	52'-10"	47'-06"	33'-05"	15'-08"	12'-10"	10'-11"	50'-10"	44'-08"	30'-00"	14'-02"	11'-08"	9'-11"
20" HTS44	57'-11"	50'-07"	37'-09"	17'-06"	14'-02"	12'-00"	55'-03"	47'-10"	33'-10"	15'-09"	12'-10"	10'-11"
22" HTS44	61'-08"	53'-05"	42'-01"	19'-05"	15'-08"	13'-02"	58'-04"	50'-07"	37'-09"	17'-05"	14'-01"	11'-11"
20" HTS46DW	68'-03"	61'-08"	51'-07"	23'-08"	19'-01"	16'-01"	65'-09"	59'-05"	46'-02"	21'-03"	17'-02"	14'-06"
22" HTS46DW	73'-11"	66'-10"	54'-11"	26'-05"	21'-02"	17'-09"	71'-03"	63'-07"	51'-07"	23'-08"	19'-00"	16'-00"

HTS Beams by *Twin River Beam*

Beam Name	LL = 40psf DL = 15psf						LL = 50psf DL = 15psf					
	LL Deflection = L/240			TL Deflection = L/180			LL Deflection = L/240			TL Deflection = L/180		
	12" o/c	16" o/c	24" o/c	48" o/c	60" o/c	72" o/c	12" o/c	16" o/c	24" o/c	48" o/c	60" o/c	72" o/c
12.75" HTS24	26'-11"	21'-03"	14'-02"				23'-10"	17'-10"	11'-11"			
14.75" HTS24	29'-10"	24'-11"	16'-07"				27'-04"	20'-11"	14'-00"			
16.75" HTS24	32'-00"	27'-08"	19'-01"				29'-03"	24'-00"	16'-00"			
13.25" HTS34	34'-10"	26'-03"	17'-08"									
15.25" HTS34	38'-00"	30'-09"	20'-07"				34'-05"	25'-11"	17'-04"			
17.25" HTS34	40'-09"	35'-04"	23'-08"	10'-11"			37'-04"	29'-09"	19'-11"			
19.25" HTS34	43'-04"	37'-06"	26'-09"	12'-03"			39'-09"	33'-08"	22'-06"	10'-04"		
17.25" HTS36DW	51'-03"	44'-05"	35'-05"	16'-02"	13'-00"	10'-11"	47'-00"	40'-08"	29'-09"	13'-08"		
19.25" HTS36DW	54'-06"	47'-03"	38'-07"	18'-03"	14'-08"	12'-03"	50'-00"	43'-03"	33'-08"	15'-04"		
16" HTS44	44'-00"	35'-03"	23'-10"	11'-08"			39'-05"	29'-09"	20'-03"	10'-02"		
18" HTS44	49'-01"	40'-05"	27'-02"	13'-00"	10'-08"		45'-03"	34'-01"	23'-00"	11'-02"		
20" HTS44	52'-06"	45'-06"	30'-08"	14'-04"	11'-09"	10'-00"	48'-02"	38'-06"	25'-10"	12'-03"		
22" HTS44	55'-06"	48'-01"	34'-02"	15'-10"	12'-10"	10'-10"	50'-11"	42'-11"	28'-09"	13'-05"		
20" HTS46DW	63'-07"	57'-02"	41'-10"	19'-04"	15'-08"	13'-02"	59'-04"	52'-05"	35'-02"	16'-04"		
22" HTS46DW	68'-11"	60'-06"	46'-09"	21'-05"	17'-03"	14'-06"	64'-00"	55'-02"	36'-10"	17'-00"		

The above **Span Charts** have been generated based on the following criteria:

- Spans shown are from centerline to centerline of bearings;
- LL** is actual Live Load and not Ground Snow Load. Determine Live Load based on Ground Snow Load in accordance with Section 4.1.6 of the NBC;
- Spans shown are based on Flat Roof or Purlin Systems with a roof pitch not to exceed a pitch of 0.5/12;
- When used as a Purlin in a Pitched Roof application, Purlins must be installed vertically;
- Spans shown assume a design value increase of 10% for spacings up to 24" o/c. No increase in design values have been used where spacing exceeds 24" o/c;
- Spans shown assume installation in accordance with manufacturers published or recommended installation guidelines;
- Above Span Charts have been provided for illustration purposes only. Please ensure that you consult with **Twin River Beam Company** for structural adequacy specific to your project prior to specifying or using the **HTS Beam**

For loading conditions not shown, please contact
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