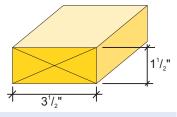
These allowable spans are based on NDS 2001. Maximum deflection is limited by L/360 or L/480 I under live load. Basic Lumber Design Values are $F_{\scriptscriptstyle (b)}$ =2000 psi $F_{\scriptscriptstyle (c)}$ =1100 psi $F_{\scriptscriptstyle (c)}$ =2000 psi E=1,800,000 psi Duration Of Load = 1.00. Spacing of trusses are center to center (in inches). Top Chord

Dead Load = 10 psf. Bottom Chord Dead Load = 5 psf. Center Line Chase = 24" max. Trusses must be designed for any special loading, such as concentrated loads. Other floor and roof loading conditions, a variety of species and other lumber grades are available.





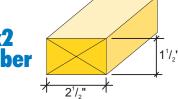
24'5"

24'5"

25'9"

25'9"





		40 PSF Live Load 55 PSF Total Load						
Center Spacing	Deflection Limit	12"	14"	Truss I	Depth 18"	20"	22"	
16" o.c.	L/360 L/480	22'2" 20'2"	24'11" 22'7"	26'10" 24'11"	28'8" 27'2"	30'4" 29'4"	31'11" 31'5"	
19.2" o.c.	L/360 L/480	20'9" 18'11"	22'8" 21'3"	24'4" 23'6"	26'0" 25'7"	27'6" 27'6"	29'0" 29'0"	

20'1"

21'7"

23'1"

23'1"

18'5"

40 PSF Live Load 55 PSF Total Load								
	12"	14"	Truss [16"	Depth 18"	20"	22"		
	19'0"	20'9"	22'4"	23'10"	25'3"	26'7"		
	18'0"	20'2"	22"4'	23'10"	25'3"	26'7"		
	17'3"	18'9"	20'3"	21'7"	22'10"	24'1"		
	6'11"	18'9"	20'3"	21'7"	22'10"	24'1"		
	15'2"	16'7"	17'10"	19'1"	20'2"	21'3"		
	15'2"	16'7"	17'10"	19'1"	20'2"	21'3"		

		60 PSF Live Load 75 PSF Total Load						
		12"	14"	16"	18"	20"	22"	
16" o.c.	L/360	19'4"	21'4"	23'0"	24'6"	26'0"	27'4"	
	L/480	17'7"	19'9"	21'10"	23'9"	25'8"	27'4"	
19.2" o.c.	L/360	17'9"	19'4"	20'10"	22'3"	23'7"	24'10"	
	L/480	16'7"	18'7"	20'6"	22'3"	23'7"	24'10"	
24" o.c.	L/360	15'9"	17'2"	18'6"	19'9"	20'11"	22'0"	
	L/480	15'4"	17'2"	18'6"	19'9"	20'11"	22'0"	

60 PSF Live Load 75 PSF Total Load									
	12"	14"	16"	18"	20"	22"			
	16'3"	17'9"	19'2"	20'5"	21'8"	22'9"			
	15'9"	17'8"	19'2"	20'5"	21'8"	22'9"			
	14'9"	16'1"	17'4"	18'6"	19'7"	20'7"			
	14'9"	16'1"	17'4"	18'6"	19'7"	20'7"			
	13'0"	14'2"	15'3"	16'4"	17'3"	18'2"			
	13'0"	14'2"	15'3"	16'4"	17'3"	18'2"			

		85 PSF Live Load 100 PSF Total Load						
		12"	14"	16"	18"	20"	22"	
16" o.c.	L/360	16'11"	18'6"	19'11"	21'3"	22'6"	23'8"	
	L/480	15'8"	17'7"	19'5"	21'2"	22'6"	23'8"	
19.2" o.c.	L/360	15'4"	16'9"	18'1"	19'3"	20'5"	21'6"	
	L/480	14'9"	16'6"	18'1"	19'3"	20'5"	21'6"	
24" o.c.	L/360	13'8"	14'10"	16'0"	17'1"	18'1"	19'1"	
	L/480	13'8"	14'10"	16'0"	17'1"	18'1"	19'1"	

	85 PSF Live Load									
100 PSF Total Load										
	12"	14"	16"	18"	20"	22"				
	14'1" 14'0"	15'5" 15'5"	16'7" 16'7"	17'8" 17'8"	18'9" 18'9"	19'9" 19'9"				
	12'9" 12'9"	13'11" 13'11"	15'0" 15'0"	16'0" 16'0"	16'11" 16'11"	17'10" 17'10"				
	11'3" 11'3"	12'3" 12'3"	13'3" 13'3"	14'1" 14'1"	14'11" 14'11"	15'9" 15'9"				

desiring this benefit may choose to specify an L/480 live load deflection criteria to be used for the floor trusses.

24" o.c.

L/360

L/480

⁽¹⁾ Vibration Control -- Research by Virginia Tech indicates that L/480 live load deflection criteria provides a high degree of resistance to floor vibration (bounce). The building designer