

City of Burbank • Wood Frame Prescriptive Provisions

ALLOWABLE SPANS FOR DF #2 ROOF RAFTERS (DF - LARCH) Light Dead Load: up to 10 psf (Total including roof) Max. Roofing Load: 6 psf (Asphalt Shingles) Live Load: 20 psf L/Δ = 240 (T-R802.4.1(2))			ALLOWABLE SPANS FOR DF #2 CEILING JOISTS (DF - LARCH) Dead Load: 10 psf Live Load : 20 psf L/Δ = 240 (T-R802.5.1)			ALLOWABLE SPANS FOR DF #2 FLOOR JOISTS (DF - LARCH) Light Dead Load : 10 psf Live Load : 40 psf L/Δ = 360 (T-R502.3.1(2))		
RAFTER SIZE	SPACING	ALLOWABLE SPAN	JOIST SIZE	SPACING	ALLOWABLE SPAN	JOIST SIZE	SPACING	ALLOWABLE SPAN
2 X 6	24"	10' - 4"	2 X 4	24"	7' - 3"	2 X 6	24"	8' - 3"
	16"	12' - 7"		16"	8' - 11"		16"	9' - 9"
	12"	14' - 7"		12"	9' - 10"		12"	10' - 9"
2 X 8	24"	13' - 0"	2 X 6	24"	10' - 8"	2 X 8	24"	10' - 5"
	16"	16' - 0"		16"	13' - 0"		16"	12' - 9"
	12"	18' - 5"		12"	15' - 0"		12"	14' - 2"
2 X 10	24"	15' - 11"	2 X 8	24"	13' - 6"	2 X 10	24"	12' - 9"
	16"	19' - 6"		16"	16' - 6"		16"	15' - 7"
	12"	22' - 6"		12"	19' - 1"		12"	18' - 0"
2 X 12	24"	18' - 6"	2 X 10	24"	16' - 5"	2 X 12	24"	14' - 9"
	16"	22' - 7"		16"	20' - 2"		16"	18' - 1"
	12"	26' - 0"		12"	23' - 3"		12"	20' - 11"

ALLOWABLE SPANS FOR DF #2 HEADERS FOR EXTERIOR BEARING WALLS Max. Roof and Ceiling Dead Load: 25 psf Max. Live Load: 20 psf (T-R602.7(1))						
SIZE	24-ft. Building Width	NJ				
2-2 X 6	3'-2"	1				
2-2 X 8	4'-0"	1				
2-2 X 10	4'-9"	2				
2-2 X 12	5'-7"	2				
3-2 X 8	5'-0"	1				
3-2 X 10	6'-0"	1				
3-2 X 12	7'-0"	2				

ALLOWABLE SPANS FOR DF #2 HEADERS FOR INTERIOR BEARING WALLS Max. Roof and Ceiling Dead Load: 25 psf Max. Live Load: 20 psf (T-R602.7(1))						
SIZE	24-ft. Building Width	NJ				
2-2 X 6	3'-0"	1				
2-2 X 8	3'-8"	1				
2-2 X 10	4'-6"	2				
2-2 X 12	5'-3"	2				
3-2 X 8	4'-9"	1				
3-2 X 10	5'-7"	1				
3-2 X 12	6'-7"	2				

- a. Building width is perpendicular to ridge measured to exterior wall.
b. NJ - Number of Jack Studs required to support each end of header.

- a. Building width is perpendicular to ridge measured to exterior wall.
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ALLOWABLE SPANS FOR DF #2 FLOOR GIRDERS SUPPORTING ONE FLOOR ONLY Max. Floor Dead Load: 15 psf ^{1,2} (T-R602.7(1))			
SIZE	24-ft Building Width		
2-2X6	3'-0"		
2-2X8	3'-8"		
2-2X10	4'-6"		
2-2X12	5'-3"		
3-2X8	4'-9"		
3-2X10	5'-7"		
3-2X12	6'-7"		

1. Building width is perpendicular to ridge measured to exterior walls.
2. Minimum 4x post.

RAFTER TIE CONNECTION ROOF LIVE LOAD 20 psf [Table R802.5.2] Minimum number of 16d common nails at rafter tie connection				
Rafter Slope	Tie Spacing (in)	Roof Span (ft.)		
		12	20	
3 : 12	16	5	8	
	24	7	11	
4 : 12	16	4	6	
	24	5	8	
5 : 12	16	3	5	
	24	4	7	

1. When nails are clinched, nailing shall be permitted to be reduced 25 percent.

General Notes:

- If spans exceed dimensions noted on tables, engineered drawings and calculations will be required
- Spans listed in above tables are based upon California Residential Code (CRC) Tables, see CRC tables for additional information
- With headers and girders, single framing member sizes may be used, if sectional properties are shown to be the same or greater than double framing member sizes listed in tables, refer to ANSI AWC NDS - 2015: National Design Specifications (NDS) for Wood Construction - with 2015 NDS Supplement