

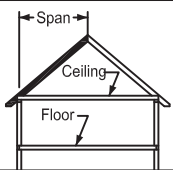
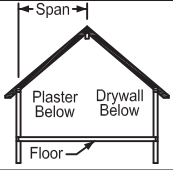
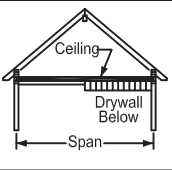
Table 1 / Allowable Spans for Floor Joists

Allowable Spans for Floor Joists					
Lumber Grade Douglas Fir Larch #2		Supporting sleeping areas (CRC Table R502.3.1(1))		Supporting living areas (CRC Table R502.3.1(2))	
Normal Size Inches	Spacing Inches	Light weight flooring ¹ (e.g., carpet/vinal)	Heaving flooring ² (e.g., tile/stone)	Light weight flooring ¹ (e.g., carpet/vinal)	Heavy flooring ² (e.g., tile/stone)
2x6	12	11'-10"	11'-6"	10'-9"	10'-6"
	16	10'-9"	9'-11"	9'-9"	9'-1"
	24	9'-1"	8'-1"	8'-1"	7'-5"
2x8	12	15'-10"	14'-7"	14'-2"	13'-3"
	16	14'-1"	12'-7"	12'-7"	11'-6"
	24	11'-6"	10'-3"	10'-3"	9'-5"
2x10	12	19'-10"	17'-9"	17'-9"	16'-3"
	16	17'-8"	15'-5"	15'-5"	14'-1"
	24	14'-1"	12'-7"	12'-7"	11'-6"
2x12"	12	23'-0"	20'-7"	20'-7"	18'-10"
	16	19'-11"	17'-10"	17'-10"	16'-3"
	24	16'-3"	14'-7"	14'-7"	13'-4"

1. Based on 10 psf dead load

2. Based on 20 psf dead load

Table 2 / Allowable Spans for Rafters and Ceiling Joists

Allowable Spans for Rafters and Ceiling Joists						
Lumber Grade Douglas Fir Larch #2						
		Rafters		Rafters		Ceiling Joist
		Asphalt Shingles ¹	Tile ²	Asphalt Shingles ¹	Tile ²	Gypsum Board ³
Nominal Size Inches	Spacing Inches	Ceiling not attached to rafters CRC Table R802.5.1(1)	Ceiling not attached to rafters CRC Table R802.5.1(1)	Ceiling attached to rafters CRC Table R802.5.1(2)	Ceiling attached to rafters CRC Table R802.5.1(2)	Uninhabitable attic without storage CRC Table R802.4(1)
2x4	12	10'-10"	9'-10"	9'-10"	9'-10"	12'-5"
	16	9'-10"	8'-6"	8'-11"	8'-6"	11'-3"
	24	8'-10"	6'-11"	7'-10"	6'-11"	9'-10"
2x6	12	16'-7"	14'-4"	15'-6"	14'-4"	19'-6"
	16	14'-4"	12'-5"	14'-1"	12'-5"	17'-8"
	24	11'-9"	10'-2"	11'-9"	10'-2"	14'-10"
2x8	12	21'-0"	18'-2"	20'-5"	18'-2"	25'-8"
	16	18'-2"	15'-9"	18'-2"	15'-9"	23'-0"
	24	14'-10"	12'-10"	14'-10"	12'-10"	18'-9"
2x10	12	25'-8"	22'-3"	25'-8"	22'-3"	26'-0"
	16	22'-3"	19'-3"	22'-3"	19'-3"	26'-0"
	24	18'-2"	15'-8"	18'-2"	15'-8"	22'-11"
2x12	12	26'-0"	25'-9"	26'-0"	25'-9"	-
	16	25'-9"	22'-4"	25'-9"	22'-4"	-
	24	21'-0"	18'-3"	21'-0"	18'-3"	-

1. Based on 10 psf dead load

2. Based on 20 psf dead load

3. Based on 5 psf dead load

Table 3 / Allowable Spans for Girder Supporting One Floor

Allowable Spans for Girders Supporting One Floor Only CRC Table R502.5(2)			
Lumber Grade Douglas Fir Larch #2	Building Width ¹		
Normal Size Inches	20	28	36
4x4	3'1"	2'8"	2'5"
4x6	4'6"	3'11"	3'6"
4x8	5'9"	5'0"	4'5"
4x10	7'0"	6'1"	5'5"
4x12	8'1"	7'0"	6'3"
6x8	7'2"	6'3"	5'7"
6x10	8'9"	7'7"	6'9"
6x12	10'2"	8'10"	7'10"
8x8	9'0"	7'8"	6'9"
8x10	10'1"	8'9"	7'10"
8x12	11'9"	10'2"	9'1"

1. Building width is measured perpendicular to the ridge. For widths between those shown, spans are permitted to be interpolated.