

SPAN CHARTS

Maximum clear span for ceiling joist- w/ gypsum clg. 10lbs live 5 lbs dead (no attic storage)		
12" O.C.	16" O.C.	24" O.C.
2x4 11'-6"	2x4 10'-0"	2x4 8'-2"
2x6 17'-0"	2x6 14'-9"	2x6 12'-0"
2x8 21'-8"	2x8 18'-9"	2x8 15'-4"
2x10 25'-7"	2x10 22'-2"	2x10 18'-1"

#3 Y.P. IRC 2003

Maximum clear span for ceiling joist- w/ gypsum clg. 10lbs live 5 lbs dead (no attic storage)		
12" O.C.	16" O.C.	24" O.C.
2x4 12'-5"	2x4 11'-3"	2x4 9'-10"
2x6 19'-6"	2x6 17'-8"	2x6 15'-6"
2x8 25'-8"	2x8 25'-4"	2x8 20'-1"
2x10 xx'-x"*	2x10 xx'-x" *	2x10 25'-11"

#2 Y.P. IRC 2003

Maximum clear span for ceiling joist- w/ gypsum clg. 20lbs live 10 lbs dead (limited storage)		
12" O.C.	16" O.C.	24" O.C.
2x4 8'-2"	2x4 7'-1"	2x4 5'-9"
2x6 12'-0"	2x6 10'-5"	2x6 8'-6"
2x8 15'-4"	2x8 13'-3"	2x8 10'-10"
2x10 18'-1"	2x10 13'-8"	2x10 12'-10"

#3 Y.P. IRC 2003

Maximum clear span for ceiling joist- w/ gypsum clg. 20lbs live 10 lbs dead (limited storage)		
12" O.C.	16" O.C.	24" O.C.
2x4 9'-10"	2x4 8'-11"	2x4 7'-8"
2x6 15'-6"	2x6 13'-6"	2x6 11'-0"
2x8 20'-1"	2x8 17'-5"	2x8 14'-2"
2x10 23'-11"	2x10 20'-9"	2x10 16'-11"

#2 Y.P. IRC 2003

Maximum clear span for rafters w/ gypsum ceiling- standard roof covering. 20lbs live 10 lbs dead		
12" O.C.	16" O.C.	24" O.C.
2x6 13'-6"	2x6 11'-8"	2x6 9'-6"
2x8 17'-2"	2x8 14'-10"	2x8 12'-1"
2x10 20'-3"	2x10 17'-6"	2x10 14'-4"
2x12 24'-1"	2x12 20'-11"	2x12 17'-1"

#3 Y.P. IRC 2003

Maximum clear span for rafters w/ gypsum ceiling- standard roof covering. 20lbs live 10 lbs dead		
12" O.C.	16" O.C.	24" O.C.
2x6 17'-0"	2x6 15'-1"	2x6 12'-3"
2x8 22'-5"	2x8 19'-5"	2x8 15'-10"
2x10 xx'-x"*	2x10 23'-2"	2x10 18'-11"
2x12 xx'-x"*	2x12 xx'-x"*	2x12 22'-2"

#2 Y.P. IRC 2003

Maximum clear span for rafters w/ gypsum ceiling- standard roof covering. 20lbs live 20 lbs dead		
12" O.C.	16" O.C.	24" O.C.
2x6 11'-8"	2x6 10'-1"	2x6 8'-3"
2x8 14'-10"	2x8 12'-10"	2x8 10'-6"
2x10 17'-6"	2x10 15'-2"	2x10 12'-5"
2x12 20'-11"	2x12 18'-1"	2x12 14'-9"

#3 Y.P. IRC 2003

Maximum clear span for rafters w/ gypsum ceiling- standard roof covering. 20lbs live 20 lbs dead		
12" O.C.	16" O.C.	24" O.C.
2x6 15'-1"	2x6 13'-0"	2x6 10'-8"
2x8 19'-5"	2x8 16'-10"	2x8 13'-9"
2x10 23'-2"	2x10 20'-1"	2x10 16'-5"
2x12 xx'-x"*	2x12 23'-7"	2x12 19'-3"

#2 Y.P. IRC 2003

Maximum clear span for floor joist 40lbs live 10 lbs dead (living areas)		
12" O.C.	16" O.C.	24" O.C.
2x6 10'-9"	2x6 9'-9"	2x6 8'-6"
2x8 14'-2"	2x8 12'-10"	2x8 11'-0"
2x10 18'-0"	2x10 16'-1"	2x10 13'-1"
2x12 21'-9"	2x12 18'-10"	2x12 15'-5"

#2 Y.P. IRC 2003

Maximum clear span for floor joist 40lbs live 10 lbs dead (living areas)		
12" O.C.	16" O.C.	24" O.C.
2x6 9'-4"	2x6 8'-1"	2x6 6'-7"
2x8 11'-11"	2x8 10'-3"	2x8 8'-5"
2x10 14'-0"	2x10 12'-2"	2x10 9'-11"
2x12 16'-8"	2x12 14'-6"	2x12 11'-10"

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Maximum clear span for floor joist 30lbs live 10 lbs dead (living areas)		
12" O.C.	16" O.C.	24" O.C.
2x6 11'-10"	2x6 10'-9"	2x6 9'-4"
2x8 15'-7"	2x8 14'-2"	2x8 12'-4"
2x10 19'-10"	2x10 18'-0"	2x10 14'-8"
2x12 24'-2"	2x12 21'-1"	2x12 17'-2"

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Maximum clear span for floor joist 30lbs live 10 lbs dead (living areas)		
12" O.C.	16" O.C.	24" O.C.
2x6 10'-5"	2x6 9'-0"	2x6 7'-4"
2x8 13'-3"	2x8 11'-6"	2x8 9'-5"
2x10 15'-8"	2x10 13'-7"	2x10 11'-1"
2x12 18'-8"	2x12 16'-2"	2x12 13'-2"

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* For SI: 1 inch= 25.4 mm, 1 foot = 304.8mm, 1 pound per square foot = 0.0479 kN/m²

a. Span exceeds 26 feet in length.