

TB- 353 Supplement to TJ-9500: Beam Sizing Tables

How to Use This Table:

1. Determine **Header Condition**.
2. Locate **Rough Opening**.
3. Determine unfactored **Floor and Snow Loads**.
4. Select TimberStrand® LSL header depth.

1.3E TimberStrand® LSL

Note: Bold italic indicates that a 3½"x5½" TimberStrand® LSL header can be installed in plank orientation in a 2x6 wall.

Also see **General Notes** on page 2.

3½" Wide 1.3E TimberStrand® LSL Window and Door Headers

Header Condition	Rough Opening	3-1/2" Depth											
		Snow Load 25LL + 15DL Floor Load 40LL + 12DL			Snow Load 30LL + 15DL Floor Load 40LL + 12DL			Snow Load 40LL + 15DL Floor Load 40LL + 12DL			Snow Load 50LL + 15DL Floor Load 40LL + 12DL		
		House Depth			House Depth			House Depth			House Depth		
		24'	28'	32'	24'	28'	32'	24'	28'	32'	24'	28'	32'
Roof Only 	3'-2"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"
	3'-8"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	5½"	5½"
	4'-2"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	5½"	5½"	5½"	5½"	5½"	5½"	5½"
	4'-8"	4⅜"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	7¼"	7¼"
	5'-2"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	7¼"	7¼"	7¼"	7¼"
	5'-8"	5½"	5½"	7¼"	5½"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"
	6'-2"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	8⅝"	8⅝"⁽²⁾
	6'-8"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	8⅝"	8⅝"	8⅝"	8⅝"⁽²⁾	8⅝"⁽²⁾
	7'-2"	7¼"	8⅝"	8⅝"	7¼"	8⅝"	8⅝"	8⅝"	8⅝"	8⅝"⁽²⁾	8⅝"⁽²⁾	9¼"⁽²⁾	9¼"⁽²⁾
8'-2"	8⅝"	8⅝"	8⅝"	8⅝"	8⅝"	8⅝"	8⅝"	9¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	
9'-2"	8⅝"	9¼"	9¼"	9¼"	9¼"	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾		
Floor- One Storey 	3'-2"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"
	3'-8"	4⅜"	4⅜"	5½"	4⅜"	4⅜"	5½"	4⅜"	4⅜"	5½"	4⅜"	4⅜"	5½"
	4'-2"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"
	4'-8"	5½"	5½"	7¼"	5½"	5½"	7¼"	5½"	5½"	7¼"	5½"	5½"	7¼"
	5'-2"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"
	5'-8"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"
	6'-2"	7¼"	7¼"	8⅝"	7¼"	7¼"	8⅝"	7¼"	7¼"	8⅝"	7¼"	7¼"	8⅝"
	6'-8"	7¼"	8⅝"	8⅝"⁽²⁾	7¼"	8⅝"	8⅝"⁽²⁾	7¼"	8⅝"	8⅝"⁽²⁾	7¼"	8⅝"	8⅝"⁽²⁾
	7'-2"	8⅝"	8⅝"	9¼"⁽²⁾	8⅝"	8⅝"	9¼"⁽²⁾	8⅝"	8⅝"	9¼"⁽²⁾	8⅝"	8⅝"	9¼"⁽²⁾
8'-2"	9¼"	11¼"⁽²⁾	11¼"⁽²⁾	9¼"	11¼"⁽²⁾	11¼"⁽²⁾	9¼"	11¼"⁽²⁾	11¼"⁽²⁾	9¼"	11¼"⁽²⁾	11¼"⁽²⁾	
9'-2"	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	
Roof Plus One Storey (Bearing) 	3'-2"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"
	3'-8"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	5½"	4⅜"	5½"	5½"	5½"	5½"	5½"
	4'-2"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	7¼"
	4'-8"	5½"	5½"	5½"	5½"	5½"	7¼"	5½"	7¼"	7¼"	7¼"	7¼"	7¼"
	5'-2"	5½"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	8⅝"⁽²⁾
	5'-8"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	8⅝"⁽²⁾	7¼"	8⅝"⁽²⁾	8⅝"⁽²⁾
	6'-2"	7¼"	7¼"	7¼"	7¼"	7¼"	8⅝"	7¼"	8⅝"	8⅝"⁽²⁾	8⅝"⁽²⁾	8⅝"⁽²⁾	9¼"⁽²⁾
	6'-8"	7¼"	8⅝"	8⅝"	8⅝"	8⅝"	8⅝"⁽²⁾	8⅝"	8⅝"⁽²⁾	9¼"⁽²⁾	8⅝"⁽²⁾	8⅝"⁽²⁾	11¼"⁽²⁾
	7'-2"	8⅝"	8⅝"	8⅝"	8⅝"	8⅝"	9¼"⁽²⁾	8⅝"⁽²⁾	9¼"⁽²⁾	11¼"⁽²⁾	9¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾
8'-2"	8⅝"	9¼"⁽²⁾	11¼"⁽²⁾	9¼"	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	
9'-2"	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾	11¼"⁽²⁾		

■ Symbol represents location of TimberStrand® LSL header

▲ Symbol represents supporting beam or structural bearing wall located at center of house, below floor.

() Symbol represents minimum number of 2x trimmers required at end of header



Refer to TJ-9500 for other load conditions or configurations not covered by this flyer, general assumptions, installation details, and other information.

General Notes:

- Tables are based on:
 - Uniform loads.
 - More restrictive of simple or continuous span. Ratio of short span to long span should be 0.4 or greater to prevent uplift.
 - Roof truss framing with 24" soffits.
 - Unfactored exterior wall weights of 80 plf, interior 60 plf.
 - Deflection criteria of L/360 live load and L/240 total load.
 - See **How to Use This Table** on page 1.

Bearing Requirements:

Tables assume minimum header support to be 1 trimmer (1½") at each end and 4½" at continuous-span supports.
(2) minimum header support to be 2 trimmers (3") at each end and 7½" at continuous-span supports.

3-1/2" Wide 1.3E TimberStrand® LSL Window and Door Headers (cont.)

Header Condition	Rough Opening	3-1/2" Depth											
		Snow Load 25LL + 15DL Floor Load 40LL + 12DL			Snow Load 30LL + 15DL Floor Load 40LL + 12DL			Snow Load 40LL + 15DL Floor Load 40LL + 12DL			Snow Load 50LL + 15DL Floor Load 40LL + 12DL		
		House Depth			House Depth			House Depth			House Depth		
		24'	28'	32'	24'	28'	32'	24'	28'	32'	24'	28'	32'
Roof Plus One Storey (No Bearing) 	3'-2"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	5½"	
	3'-8"	4⅜"	5½"	5½"	4⅜"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	
	4'-2"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	7¼"	5½"	7¼"	
	4'-8"	5½"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼" ⁽²⁾	
	5'-2"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	8⅝" ⁽²⁾	7¼"	8⅝" ⁽²⁾	
	5'-8"	7¼"	7¼"	8⅝" ⁽²⁾	7¼"	7¼"	8⅝" ⁽²⁾	7¼"	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	
	6'-2"	7¼"	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝"	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	
	6'-8"	8⅝"	8⅝" ⁽²⁾	9¼" ⁽²⁾	8⅝"	8⅝" ⁽²⁾	9¼" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	
Floor- Two Storeys 	3'-2"	5½"	5½"	7¼" ⁽²⁾	5½"	5½"	7¼" ⁽²⁾	5½"	5½"	7¼" ⁽²⁾	5½"	5½"	
	3'-8"	5½"	7¼" ⁽²⁾	7¼" ⁽²⁾	5½"	7¼" ⁽²⁾	7¼" ⁽²⁾	5½"	7¼" ⁽²⁾	7¼" ⁽²⁾	5½"	7¼" ⁽²⁾	
	4'-2"	7¼"	7¼" ⁽²⁾	7¼" ⁽²⁾	7¼"	7¼" ⁽²⁾	7¼" ⁽²⁾	7¼"	7¼" ⁽²⁾	7¼" ⁽²⁾	7¼"	7¼" ⁽²⁾	
	4'-8"	7¼" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	7¼" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	7¼" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	7¼" ⁽²⁾	8⅝" ⁽²⁾	
	5'-2"	8⅝" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	
	5'-8"	8⅝" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	
	6'-2"	9¼" ⁽²⁾	11¼" ⁽²⁾	11¼" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	11¼" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	11¼" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	
	6'-8"	11¼" ⁽²⁾	11¼" ⁽²⁾		11¼" ⁽²⁾	11¼" ⁽²⁾		11¼" ⁽²⁾	11¼" ⁽²⁾		11¼" ⁽²⁾	11¼" ⁽²⁾	
Roof Plus Two Storeys (Bearing) 	3'-2"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	4⅜"	5½"	4⅜"	5½"	5½"	
	3'-8"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	
	4'-2"	5½"	5½"	7¼"	5½"	5½"	7¼"	5½"	7¼"	7¼"	7¼"	7¼" ⁽²⁾	
	4'-8"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼" ⁽²⁾	7¼"	7¼" ⁽²⁾	
	5'-2"	7¼"	7¼"	7¼" ⁽²⁾	7¼"	7¼"	7¼" ⁽²⁾	7¼"	7¼" ⁽²⁾	8⅝" ⁽²⁾	7¼" ⁽²⁾	8⅝" ⁽²⁾	
	5'-8"	7¼"	7¼"	8⅝" ⁽²⁾	7¼"	8⅝" ⁽²⁾	8⅝" ⁽²⁾	7¼"	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	
	6'-2"	8⅝"	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝"	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	
	6'-8"	8⅝" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	

- Symbol represents location of TimberStrand® LSL header
- ▲ Symbol represents supporting beam or structural bearing wall located at center of house, below floor.
- () Symbol represents minimum number of 2x trimmers required at end of header



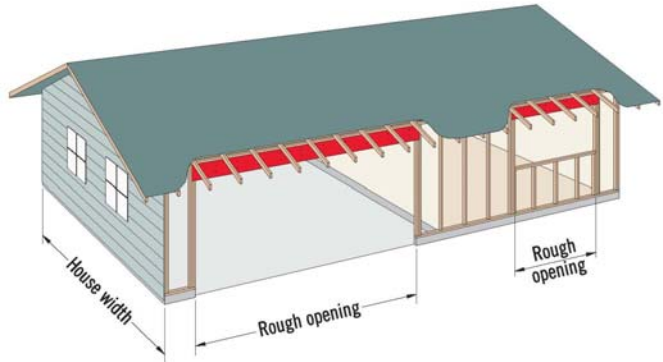
Refer to TJ-9500 for other load conditions or configurations not covered by this flyer, general assumptions, installation details, and other information.

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How to Use This Table:

1. Determine appropriate unfactored **Snow Load** and **House Width**.
2. Locate **Rough Opening**.
3. Select beam size and material.

Also see **General Notes** on page 4.



Beams Supporting Roof

Unfactored Loads (psf)	House Width	Rough Opening															
		8'			9'-3"			10'			12'						
Snow Load 25LL + 15 DL	24'	1 3/4"x9 1/2"	T	M	P	1 3/4"x9 1/2"	M	P	1 3/4"x11 1/4"	T	M	P	1 3/4"x11 1/4"	T	M	P	
		3 1/2"x7 1/4"	M			1 3/4"x11 1/4"	T	M	P	3 1/2"x9 1/4"	T	M	P	1 3/4"x14"	T	M	P
						3 1/2"x9 1/4"	T	M	P					3 1/2"x9 1/2"	T	M	P
	30'	1 3/4"x9 1/2"	T	M	P	1 3/4"x11 1/4"	T	M	P	1 3/4"x11 1/4"	T	M	P	1 3/4"x11 1/4" ⁽³⁾	T	M	P
		3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/4"	T	M	P	1 3/4"x11 1/8"	T	M	P	3 1/2"x11 1/4"	T	M	P
		5 1/4"x7 1/4"	M							3 1/2"x9 1/4"	T	M	P	5 1/4"x9 1/2"	T	M	P
	36'	1 3/4"x9 1/2"	M		P	1 3/4"x11 1/4"	T	M	P	1 3/4"x11 1/8" ⁽³⁾	M		P	1 3/4"x14" ⁽³⁾	T	M	P
		1 3/4"x11 1/4"	T	M	P	1 3/4"x11 1/8"	T	M	P	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x11 1/8"	T	M	P
		3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/2"	T	M	P	5 1/4"x9 1/4"	T	M	P
Snow Load 30LL + 15 DL	24'	1 3/4"x9 1/2"	T	M	P	1 3/4"x11 1/4"	T	M	P	1 3/4"x11 1/4"	T	M	P	1 3/4"x11 1/4"	T	M	P
		3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/4"	T	M	P	1 3/4"x11 1/8"	T	M	P	3 1/2"x11 1/4"	T	M	P
		5 1/4"x7 1/4"	M							3 1/2"x9 1/4"	T	M	P	5 1/4"x9 1/2"	T	M	P
	30'	1 3/4"x9 1/4"	M		P	1 3/4"x11 1/4"	M		P	1 3/4"x11 1/8"	M		P	1 3/4"x14" ⁽³⁾	T	M	P
		1 3/4"x11 1/4"	T	M	P	1 3/4"x11 1/8"	T	M	P	1 3/4"x14"	T	M	P	3 1/2"x11 1/8"	T	M	P
		3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/4"	T	M	P	5 1/4"x9 1/4"	T	M	P
	36'	1 3/4"x11 1/4"	T	M	P	1 3/4"x11 1/8" ⁽³⁾	T	M	P	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x11 1/8"	T	M	P
		3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/2"	T	M	P	3 1/2"x11 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P
		5 1/4"x7 1/4"	M			3 1/2"x9 1/2"	T	M	P	3 1/2"x11 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P
Snow Load 40LL + 15 DL	24'	1 3/4"x9 1/2"	M		P	1 3/4"x11 1/4"	M		P	1 3/4"x11 1/8" ⁽³⁾	M		P	3 1/2"x11 1/4"	T	M	P
		1 3/4"x11 1/4"	T	M	P	1 3/4"x11 1/8"	T	M	P	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x14"	T	M	P
		3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/4"	T	M	P	5 1/4"x9 1/2"	T	M	P
	30'	1 3/4"x11 1/4"	T	M	P	1 3/4"x14" ⁽³⁾	T	M	P	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x11 1/8"	T	M	P
		3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/4"	T	M	P	3 1/2"x11 1/4"	T	M	P	3 1/2"x14"	T	M	P
						3 1/2"x11 1/4"	T	M	P	5 1/4"x9 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P
	36'	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x11 1/4"	T	M	P	3 1/2"x11 1/8"	T	M	P	3 1/2"x14"	T	M	P
		3 1/2"x9 1/4"	T	M	P	5 1/4"x9 1/4"	T	M	P	5 1/4"x9 1/4"	M		P	5 1/4"x11 1/4"	T	M	P
						5 1/4"x11 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P	5 1/4"x11 1/8"	T	M	P
Snow Load 50LL + 15 DL	24'	1 3/4"x11 1/4"	T	M	P	1 3/4"x14" ⁽³⁾	T	M	P	1 3/4"x14" ⁽³⁾	M		P	3 1/2"x11 1/8"	T	M	P
		3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/2"	M		P	3 1/2"x11 1/4"	T	M	P	3 1/2"x14"	T	M	P
		5 1/4"x7 1/4"	M			3 1/2"x11 1/4"	T	M	P	5 1/4"x9 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P
	30'	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x11 1/4"	T	M	P	3 1/2"x11 1/8"	T	M	P	3 1/2"x14"	T	M	P
		3 1/2"x9 1/2"	T	M	P	5 1/4"x9 1/4"	T	M	P	5 1/4"x9 1/4"	M		P	5 1/4"x11 1/4"	T	M	P
		5 1/4"x9 1/4"	T	M	P					5 1/4"x11 1/4"	T	M	P				
	36'	1 3/4"x14" ⁽³⁾	T			3 1/2"x11 1/8"	T	M	P	3 1/2"x11 1/8"	M		P	3 1/2"x14" ⁽³⁾	T	M	P
		3 1/2"x9 1/4"	M		P	5 1/4"x9 1/4"	M		P	3 1/2"x14"	T	M	P	3 1/2"x16"	T	M	P
		3 1/2"x11 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P	5 1/4"x11 1/8"	T	M	P

T 1.55E TimberStrand® LSL

M 1.9E Microllam® LVL

P 2.0E Parallam® PSL



Refer to iLevel Trus Joist® Beams, Headers, and Columns Specifier's Guide TJ-9500 for other load conditions or configurations not covered by this flyer, general assumptions, installation details, and other information.

General Notes:

- Tables are based on:
 - Uniform loads.
 - More restrictive of simple or continuous span. Ratio of short span to long span should be 0.4 or greater to prevent uplift.
 - Roof truss framing with 24" soffits.
 - Deflection criteria of L/360 live load and L/180 total load.
 - See **How to Use This Table** on page 3.

Bearing Requirements:

Minimum beam support to be 2 trimmers (3") at each end and 7½" at continuous-span supports.

(3) - requires 3 trimmers (4½") at each end and 11¼" at continuous-span supports.

Beams Supporting Roof (cont.)

Unfactored Loads (psf)	House Width	Rough Opening								
		14'			16'-3"			18'-3"		
Snow Load 25LL + 15 DL	24'	1¼"x14" ⁽³⁾			3½"x14"			3½"x14"		
		T	M	P	T	M	P	T	M	P
		3½"x11½"			5¼"x11¼"			3½"x16"		
	30'	5¼"x9½"			5¼"x11½"			5¼"x14"		
		T	M	P	T	M	P	T	M	P
		3½"x11½"			3½"x14"			3½"x16"		
		3½"x14"			3½"x16"			5¼"x14"		
		5¼"x11¼"			5¼"x11½"			5¼"x16"		
		T	M	P	T	M	P	T	M	P
36'	3½"x14"			3½"x16"			3½"x16"			
	5¼"x11¼"			5¼"x14"			3½"x18"			
	T	M	P	T	M	P	T	M	P	
Snow Load 30LL + 15 DL	24'	3½"x11½"			3½"x14"			3½"x16"		
		T	M	P	T	M	P	T	M	P
		3½"x14"			3½"x16"			5¼"x14"		
	30'	5¼"x11¼"			5¼"x11½"			5¼"x16"		
		T	M	P	T	M	P	T	M	P
		3½"x14"			3½"x16"			3½"x18"		
		3½"x16"			5¼"x14"			5¼"x14"		
		5¼"x11½"			5¼"x16"			5¼"x16"		
		T	M	P	T	M	P	T	M	P
36'	3½"x14"			3½"x16"			3½"x18" ⁽³⁾			
	3½"x16"			5¼"x14"			3½"x19" ⁽³⁾			
	T	M	P	T	M	P	T	M	P	
Snow Load 40LL + 15 DL	24'	3½"x14"			3½"x16"			3½"x18"		
		T	M	P	T	M	P	T	M	P
		5¼"x11¼"			5¼"x14"			5¼"x16"		
	30'	3½"x16"			5¼"x14"			3½"x19" ⁽³⁾		
		T	M	P	T	M	P	T	M	P
		5¼"x11½"			5¼"x16"			5¼"x16"		
		3½"x16" ⁽³⁾			3½"x18" ⁽³⁾			3½"x19" ⁽³⁾		
		5¼"x14"			3½"x19" ⁽³⁾			3½"x20" ⁽³⁾		
		T	M	P	T	M	P	T	M	P
36'	5¼"x14"			5¼"x16"			5¼"x18"			
	T	M	P	T	M	P	T	M	P	
	3½"x14"			3½"x16"			3½"x18"			
Snow Load 50LL + 15 DL	24'	3½"x16"			3½"x18"			3½"x19" ⁽³⁾		
		T	M	P	T	M	P	T	M	P
		5¼"x14"			5¼"x14"			5¼"x16"		
	30'	3½"x16" ⁽³⁾			3½"x18" ⁽³⁾			3½"x20" ⁽³⁾		
		5¼"x14"			3½"x19" ⁽³⁾			5¼"x18"		
		T	M	P	T	M	P	T	M	P
		5¼"x14"			5¼"x16"			5¼"x19"		
		3½"x16" ⁽³⁾			3½"x18" ⁽³⁾			5¼"x18" ⁽³⁾		
		3½"x18" ⁽³⁾			3½"x19" ⁽³⁾			5¼"x19" ⁽³⁾		
T	M	P	T	M	P	T	M	P		
36'	5¼"x14"			5¼"x16"			7"x16"			
	T	M	P	T	M	P	T	M	P	
	3½"x14"			3½"x16"			3½"x18"			

T 1.55E TimberStrand® LSL **M** 1.9E Microllam® LVL **P** 2.0E Parallam® PSL

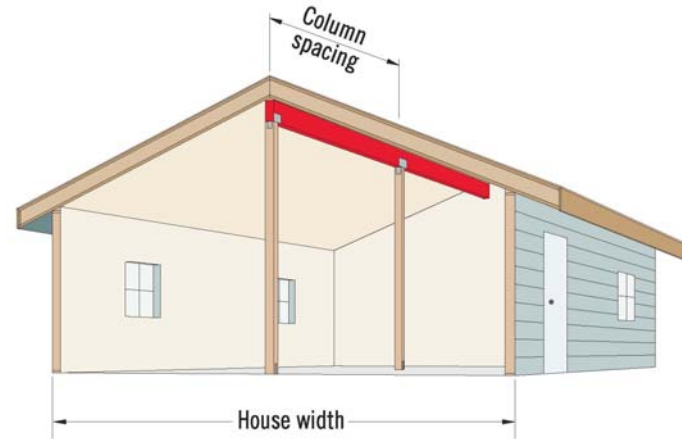


Refer to iLevel Trus Joist® Beams, Headers, and Columns Specifier's Guide TJ-9500 for other load conditions or configurations not covered by this flyer, general assumptions, installation details, and other information.

How to Use This Table:

1. Determine appropriate unfactored **Snow Load** and **House Width**
2. Locate **Column Spacing**
3. Select beam size and material

Also see **General Notes** on page 6.



Ridge Beam

Unfactored Load (psf)	House Width	Column Spacing																			
		10'			12'			14'			16'										
Snow Load 25LL + 15 DL	24'	3½"x9¼"	T	M	P	3½"x9¼"	T	M	P	3½"x11¼"	T	M	P	3½"x11⅞"	T	M	P	3½"x14"	T	M	P
		3½"x9½"				3½"x9½"				5¼"x9¼"				5¼"x11¼"							
		5¼"x9¼"				5¼"x9¼"															
	30'	3½"x9¼"	T	M	P	3½"x9½"	T	M	P	3½"x11¼"	T	M	P	3½"x11⅞"	T	M	P	3½"x14"	T	M	P
		3½"x9½"				3½"x11¼"				5¼"x9½"				5¼"x11¼"				5¼"x11⅞"			
		5¼"x9¼"				5¼"x9¼"				5¼"x11¼"				5¼"x11¼"							
	36'	3½"x9¼"	T	M	P	3½"x11¼"	T	M	P	3½"x11⅞"	T	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P
		3½"x9½"				5¼"x9¼"				3½"x14"				3½"x16"							
		5¼"x9¼"				5¼"x9½"				5¼"x11¼"				5¼"x11⅞"							
Snow Load 30LL + 15 DL	24'	3½"x9¼"	T	M	P	3½"x9½"	T	M	P	3½"x11⅞"	T	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P
		3½"x9½"				3½"x11¼"				5¼"x9½"				5¼"x11¼"				5¼"x11⅞"			
		5¼"x9¼"				5¼"x9¼"				5¼"x11¼"				5¼"x11¼"							
	30'	3½"x9¼"	T	M	P	3½"x11¼"	T	M	P	3½"x11⅞"	T	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P
		3½"x9½"				5¼"x9¼"				3½"x14"				3½"x16"				5¼"x11⅞"			
		5¼"x9¼"				5¼"x9½"				5¼"x11¼"				5¼"x11¼"							
	36'	3½"x9¼"	T	M	P	3½"x11⅞"	T	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P	3½"x18"	T	M	P
		3½"x11¼"				5¼"x9½"				5¼"x11¼"				5¼"x14"				5¼"x14"			
		5¼"x9¼"				5¼"x11¼"				5¼"x11⅞"				5¼"x11⅞"							
Snow Load 40LL + 15 DL	24'	3½"x9¼"	T	M	P	3½"x11¼"	T	M	P	3½"x11⅞"	T	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P
		3½"x9½"				3½"x11¼"				3½"x14"				3½"x16"				3½"x18"			
		5¼"x9¼"				5¼"x9½"				5¼"x11¼"				5¼"x11¼"							
	30'	3½"x9½"	T	M	P	3½"x11¼"	T	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P	3½"x18"	T	M	P
		3½"x11¼"				3½"x11⅞"				3½"x14"				3½"x16"				3½"x18"			
		5¼"x9¼"				3½"x14"				3½"x16"				5¼"x14"				5¼"x14"			
	36'	3½"x11¼"	T	M	P	3½"x11⅞"	T	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P	3½"x18"	T	M	P
		5¼"x9¼"				3½"x14"				3½"x16"				5¼"x14"				5¼"x16"			
		5¼"x9½"				5¼"x11¼"				5¼"x11⅞"				5¼"x16"							
Snow Load 50LL + 15 DL	24'	3½"x9½"	T	M	P	3½"x11¼"	T	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P	3½"x18"	T	M	P
		3½"x11¼"				3½"x14"				5¼"x11¼"				5¼"x14"				5¼"x14"			
		5¼"x9¼"				5¼"x9½"				5¼"x11⅞"											
	30'	3½"x11¼"	T	M	P	3½"x11⅞"	T	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P	3½"x18"	T	M	P
		5¼"x9¼"				3½"x14"				3½"x16"				3½"x18"				3½"x18"			
		5¼"x9½"				5¼"x11¼"				5¼"x14"				5¼"x14"				5¼"x14"			
	36'	3½"x11⅞"	T	M	P	3½"x14"	T	M	P	3½"x16" ⁽³⁾	T	M	P	3½"x18" ⁽³⁾	T	M	P	3½"x19" ⁽³⁾	T	M	P
		5¼"x9½"				5¼"x11¼"				5¼"x14"				3½"x19" ⁽³⁾							
		5¼"x11¼"												5¼"x16"							

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M 1.9E Microllam® LVL

P 2.0E Parallam® PSL



Refer to iLevel Trus Joist® Beams, Headers, and Columns Specifier's Guide TJ-9500 for other load conditions or configurations not covered by this flyer, general assumptions, installation details, and other information.

General Notes:

- Tables are based on:
 - Uniform loads.
 - More restrictive of simple or continuous beam span.
 - Ratio of short span to long span should be 0.4 or greater to prevent uplift.
 - Deflection criteria of L/360 live load and L/180 total load.
 - See **How to Use This Table** on page 5.

Bearing Requirements

Minimum beam support to be 2 trimmers (3") at each end and 7½" at continuous-span supports.

(3) - requires 3 trimmers (4½") at each end and 11¼" at continuous-span supports.

Ridge Beam (cont.)

Unfactored Load (psf)	House Width	Column Spacing																				
		18'			20'			22'			24'											
Snow Load 25LL + 15 DL	24'	3½"x14"	T	M	P	3½"x16"	T	M	P	3½"x16"	T	M	P	3½"x18"	T	M	P	3½"x18"	T	M	P	
		3½"x16"	T	M	P	5¼"x14"	T	M	P	3½"x18"	M	P	3½"x19"	M	P	5¼"x16"	M	P	3½"x19"	M	P	
		5¼"x11⅞"	M	P			5¼"x14"	M	P	5¼"x16"	M	P	5¼"x16"	M	P							
	30'	3½"x14"	T	M	P	3½"x16"	T	M	P	3½"x18"	M	P	3½"x19"	M	P	3½"x19"	M	P	5¼"x18"	M	P	
		3½"x16"	T	M	P	5¼"x14"	T	M	P	3½"x19"	M	P	3½"x19"	M	P	5¼"x18"	M	P	5¼"x19"	M	P	
		5¼"x14"	T	M	P	5¼"x16"	T	M	P	5¼"x16"	M	P	5¼"x16"	M	P	5¼"x18"	M	P	5¼"x18"	M	P	
	36'	3½"x16"	T	M	P	3½"x18"	T	M	P	3½"x18¾"	M	P	3½"x19"	M	P	5¼"x18"	M	P	5¼"x19"	M	P	
		5¼"x14"	T	M	P	3½"x19"	T	M	P	3½"x19"	M	P	5¼"x16"	M	P	5¼"x19"	M	P	7"x16"	M	P	
		5¼"x16"	T	M	P	5¼"x16"	T	M	P	5¼"x16"	M	P	5¼"x16"	M	P	7"x16"	M	P				
Snow Load 30LL + 15 DL	24'	3½"x14"	T	M	P	3½"x16"	T	M	P	3½"x18"	T	M	P	3½"x18¾"	M	P	3½"x19"	M	P	5¼"x18"	M	P
		3½"x16"	T	M	P	5¼"x14"	T	M	P	3½"x19"	M	P	3½"x19"	M	P	5¼"x16"	M	P	5¼"x19"	M	P	
		5¼"x14"	T	M	P	5¼"x16"	T	M	P	5¼"x16"	M	P	5¼"x16"	M	P	5¼"x16"	M	P	7"x16"	M	P	
	30'	3½"x16"	T	M	P	3½"x18"	T	M	P	3½"x18¾"	M	P	3½"x19"	M	P	5¼"x18"	M	P	5¼"x19"	M	P	
		5¼"x14"	T	M	P	3½"x19"	T	M	P	3½"x19"	M	P	5¼"x18"	M	P	5¼"x19"	M	P	5¼"x19"	M	P	
		5¼"x16"	T	M	P	5¼"x16"	T	M	P	5¼"x16"	M	P	5¼"x16"	M	P	7"x16"	M	P				
	36'	3½"x16"	T	M	P	3½"x18 ⁽³⁾	T	M	P	3½"x20 ⁽³⁾	M	P	5¼"x18"	M	P	5¼"x19"	M	P	5¼"x19"	M	P	
		3½"x18"	T	M	P	3½"x19 ⁽³⁾	T	M	P	5¼"x18"	M	P	5¼"x18"	M	P	5¼"x19"	M	P				
		5¼"x14"	T	M	P	5¼"x16"	T	M	P	5¼"x16"	M	P	5¼"x19"	M	P							
Snow Load 40LL + 15 DL	24'	3½"x16"	T	M	P	3½"x18"	T	M	P	3½"x19"	T	M	P	5¼"x18"	T	M	P	5¼"x19"	T	M	P	
		5¼"x14"	T	M	P	3½"x19"	T	M	P	3½"x20"	M	P	5¼"x18"	M	P	5¼"x19"	M	P	7"x16"	M	P	
		5¼"x16"	T	M	P	5¼"x16"	T	M	P	5¼"x16"	M	P	5¼"x18"	M	P	5¼"x19"	M	P				
	30'	3½"x18"	T	M	P	3½"x18¾ ⁽³⁾	T	M	P	5¼"x18"	T	M	P	5¼"x19"	T	M	P	5¼"x19"	T	M	P	
		3½"x19"	T	M	P	3½"x19 ⁽³⁾	T	M	P	5¼"x19"	T	M	P	5¼"x19"	T	M	P	5¼"x20"	M	P		
		5¼"x16"	T	M	P	5¼"x16"	T	M	P	7"x16"	M	P	7"x16"	M	P							
	36'	3½"x18 ⁽³⁾	T	M	P	3½"x20 ⁽³⁾	T	M	P	5¼"x19"	T	M	P	7"x19"	M	P						
		3½"x19 ⁽³⁾	T	M	P	5¼"x18"	T	M	P	5¼"x20"	M	P										
		5¼"x16"	T	M	P	5¼"x19"	T	M	P													
Snow Load 50LL + 15 DL	24'	3½"x18"	T	M	P	3½"x18¾ ⁽³⁾	T	M	P	5¼"x18"	T	M	P	5¼"x19"	T	M	P	5¼"x20"	M	P		
		3½"x19"	T	M	P	3½"x19 ⁽³⁾	T	M	P	5¼"x19"	T	M	P	5¼"x20"	M	P						
		5¼"x16"	T	M	P	5¼"x16"	T	M	P	7"x16"	M	P										
	30'	3½"x18¾ ⁽³⁾	T	M	P	5¼"x18"	T	M	P	5¼"x19"	T	M	P	7"x19"	M	P						
		3½"x19 ⁽³⁾	T	M	P	5¼"x19"	T	M	P	5¼"x20"	M	P										
		5¼"x16"	T	M	P	7"x16"	M	P														
	36'	3½"x19 ⁽³⁾	T	M	P	5¼"x18¾ ⁽³⁾	T	M	P	7"x19"	M	P										
		3½"x20 ⁽³⁾	T	M	P	5¼"x19 ⁽³⁾	T	M	P													
		5¼"x18"	T	M	P																	

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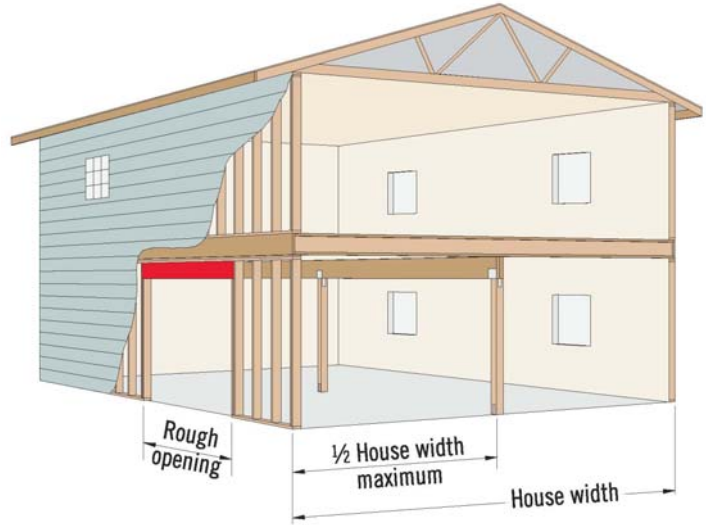
P 2.0E Parallam® PSL



Refer to iLevel Trus Joist® Beams, Headers, and Columns Specifier's Guide TJ-9500 for other load conditions or configurations not covered by this flyer, general assumptions, installation details, and other information.

How to Use This Table:

1. Verify that unfactored floor loading of 40 psf live load and 12 psf dead load is adequate.
2. Determine appropriate unfactored **Snow Load** and **House Width**.
3. Locate **Rough Opening**.
4. Select beam size and material.



Also see **General Notes** on page 8.

Beams Supporting Floor and Roof

Unfactored Loads (psf)	House Width	Rough Opening															
		8'			9'-3"			10'			12'						
Snow Load 25LL + 15 DL	24'	1 1/4"x9 1/2"	T	M	P	1 3/4"x11 1/4"	T	M	P	1 3/4"x11 7/8" ⁽³⁾	T	M	P	3 1/2"x11 1/4"	T	M	P
		1 3/4"x11 1/4"	T	M	P	1 3/4"x11 1/8"	T	M	P	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x14"	T	M	P
		3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/4"	T	M	P	5 1/4"x9 1/2"	T	M	P
	30'	1 3/4"x11 1/4"	T	M	P	1 3/4"x14" ⁽³⁾	T	M	P	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x11 7/8"	T	M	P
		3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/4"	T	M	P	3 1/2"x11 1/4"	T	M	P	3 1/2"x14"	T	M	P
						3 1/2"x11 1/4"	T	M	P	5 1/4"x9 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P
Floor Load 40LL + 12DL	36'	1 3/4"x14" ⁽³⁾	T	M	P	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x11 7/8"	T	M	P	3 1/2"x14"	T	M	P
		3 1/2"x9 1/4"	T	M	P	3 1/2"x11 1/4"	T	M	P	5 1/4"x9 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P
						5 1/4"x9 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P	5 1/4"x11 7/8"	T	M	P
Snow Load 30LL + 15 DL	24'	1 3/4"x11 1/4"	T	M	P	1 3/4"x11 7/8" ⁽³⁾	T	M	P	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x11 7/8"	T	M	P
		3 1/2"x9 1/4"	T	M	P	1 3/4"x14"	T	M	P	3 1/2"x9 1/2"	T	M	P	3 1/2"x14"	T	M	P
						3 1/2"x9 1/2"	T	M	P	3 1/2"x11 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P
	30'	1 3/4"x11 7/8" ⁽³⁾	T	M	P	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x11 1/4"	T	M	P	3 1/2"x14"	T	M	P
		3 1/2"x9 1/4"	T	M	P	3 1/2"x9 1/2"	T	M	P	5 1/4"x9 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P
						3 1/2"x11 1/4"	T	M	P	5 1/4"x9 1/2"	T	M	P	5 1/4"x11 7/8"	T	M	P
Floor Load 40LL + 12DL	36'	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x11 1/4"	T	M	P	3 1/2"x11 7/8"	T	M	P	3 1/2"x14"	T	M	P
		3 1/2"x9 1/2"	T	M	P	5 1/4"x9 1/4"	T	M	P	5 1/4"x9 1/2"	T	M	P	5 1/4"x11 1/4"	T	M	P
		5 1/4"x9 1/4"	T	M	P					5 1/4"x11 1/4"	T	M	P				
Snow Load 40LL + 15 DL	24'	1 3/4"x11 1/4" ⁽³⁾	T	M	P	1 3/4"x14" ⁽³⁾	T	M	P	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x11 7/8"	T	M	P
		1 3/4"x11 7/8" ⁽³⁾	T	M	P	3 1/2"x9 1/2"	T	M	P	3 1/2"x11 1/4"	T	M	P	3 1/2"x14"	T	M	P
		3 1/2"x9 1/4"	T	M	P	3 1/2"x11 1/4"	T	M	P	5 1/4"x9 1/2"	T	M	P	5 1/4"x11 1/4"	T	M	P
	30'	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x11 1/4"	T	M	P	3 1/2"x11 7/8"	T	M	P	3 1/2"x14"	T	M	P
		3 1/2"x9 1/2"	T	M	P	5 1/4"x9 1/4"	T	M	P	5 1/4"x9 1/2"	T	M	P	5 1/4"x11 1/4"	T	M	P
		5 1/4"x9 1/4"	T	M	P					5 1/4"x11 1/4"	T	M	P				
Floor Load 40LL + 12DL	36'	3 1/2"x9 1/4"	T	M	P	3 1/2"x11 7/8"	T	M	P	3 1/2"x11 7/8"	T	M	P	3 1/2"x14" ⁽³⁾	T	M	P
		3 1/2"x11 1/4"	T	M	P	5 1/4"x9 1/4"	T	M	P	3 1/2"x14"	T	M	P	3 1/2"x16" ⁽³⁾	T	M	P
		5 1/4"x9 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P	5 1/4"x11 7/8"	T	M	P
Snow Load 50LL + 15 DL	24'	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x11 1/4"	T	M	P	3 1/2"x11 7/8"	T	M	P	3 1/2"x14"	T	M	P
		3 1/2"x9 1/4"	T	M	P	5 1/4"x9 1/4"	T	M	P	5 1/4"x9 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P
						5 1/4"x9 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P	5 1/4"x11 7/8"	T	M	P
	30'	1 3/4"x14" ⁽³⁾	T	M	P	3 1/2"x11 7/8"	T	M	P	3 1/2"x11 7/8"	T	M	P	3 1/2"x14" ⁽³⁾	T	M	P
		3 1/2"x9 1/4"	T	M	P	5 1/4"x9 1/4"	T	M	P	3 1/2"x14"	T	M	P	3 1/2"x16" ⁽³⁾	T	M	P
		3 1/2"x11 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P	5 1/4"x11 1/4"	T	M	P	5 1/4"x11 7/8"	T	M	P
Floor Load 40LL + 12DL	36'	3 1/2"x11 1/4"	T	M	P	3 1/2"x11 1/4"	T	M	P	3 1/2"x14" ⁽³⁾	T	M	P	3 1/2"x16" ⁽³⁾	T	M	P
		5 1/4"x9 1/4"	T	M	P	3 1/2"x14"	T	M	P	5 1/4"x11 1/4"	T	M	P	5 1/4"x14"	T	M	P
						5 1/4"x11 1/4"	T	M	P	5 1/4"x11 7/8"	T	M	P				

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Refer to TJ-9500 for other load conditions or configurations not covered by this flyer, general assumptions, installation details, and other information.

General Notes:

- Tables are based on:
 - Uniform loads.
 - More restrictive of simple or continuous beam span. Ratio of short span to long span should be 0.4 or greater to prevent uplift.
 - Roof truss framing with 24" soffits.
 - Unfactored exterior wall weights of 80 plf, interior 60 plf.
 - Deflection criteria of L/360 live load and L/240 total load.
 - See **How to Use This Table** on page 7.

Bearing Requirements

Minimum beam support to be 2 trimmers (3") at each end and 7½" at continuous-span supports.

(3) - requires 3 trimmers (4½") at each end and 11¼" at continuous-span supports.

Beams Supporting Floor and Roof (cont.)

Unfactored Loads (psf)	House Width	Rough Opening										
		14'			16'-3"			18'-3"				
Snow Load 25LL + 15 DL	24'	3½"x14"	T	M	P	3½"x16"	M	P	3½"x18"	M	P	
		5¼"x11¼"	T	M	P	5¼"x14"	M	P	3½"x19"	M	P	
						5¼"x16"	T	M	P	5¼"x16"	T	M
	30'	3½"x14"	T	M	P	3½"x16"	M	P	3½"x18¾" ⁽³⁾	M	P	
		3½"x16"	T	M	P	5¼"x14"	M	P	3½"x19" ⁽³⁾	M	P	
		5¼"x11½"	T	M	P	5¼"x16"	T	M	P	5¼"x16"	M	P
Floor Load 40LL + 12DL	36'	3½"x16"	T	M	P	3½"x18" ⁽³⁾	M	P	3½"x19" ⁽³⁾	M	P	
		5¼"x14"	T	M	P	3½"x19" ⁽³⁾	M	P	3½"x20" ⁽³⁾	M	P	
						5¼"x16"	T	M	P	5¼"x18"	M	P
Snow Load 30LL + 15 DL	24'	3½"x14"	T	M	P	3½"x16"	M	P	3½"x18" ⁽³⁾	M	P	
		3½"x16"	T	M	P	5¼"x14"	M	P	3½"x19" ⁽³⁾	M	P	
		5¼"x11½"	T	M	P	5¼"x16"	T	M	P	5¼"x16"	M	P
	30'	3½"x14"	T	M	P	3½"x18" ⁽³⁾	M	P	3½"x18¾" ⁽³⁾	M	P	
		3½"x16"	T	M	P	3½"x19" ⁽³⁾	M	P	3½"x19" ⁽³⁾	M	P	
		5¼"x14"	T	M	P	5¼"x16"	T	M	P	5¼"x16"	M	P
Floor Load 40LL + 12DL	36'	3½"x16" ⁽³⁾	T	M	P	3½"x18" ⁽³⁾	M	P	3½"x20" ⁽³⁾	M	P	
		5¼"x14"	T	M	P	3½"x19" ⁽³⁾	M	P	5¼"x18"	M	P	
						5¼"x16"	M	P	5¼"x19"	M	P	
Snow Load 40LL + 15 DL	24'	3½"x14"	T	M	P	3½"x18" ⁽³⁾	M	P	3½"x18¾" ⁽³⁾	M	P	
		3½"x16"	T	M	P	3½"x19" ⁽³⁾	M	P	3½"x19" ⁽³⁾	M	P	
		5¼"x14"	T	M	P	5¼"x14"	M	P	5¼"x16"	M	P	
	30'	3½"x16" ⁽³⁾	T	M	P	3½"x18" ⁽³⁾	M	P	3½"x20" ⁽³⁾	M	P	
		5¼"x14"	T	M	P	3½"x19" ⁽³⁾	M	P	5¼"x18"	M	P	
						5¼"x16"	M	P	5¼"x19"	M	P	
Floor Load 40LL + 12DL	36'	3½"x16" ⁽³⁾	T	M	P	3½"x19" ⁽³⁾	M	P	5¼"x18" ⁽³⁾	M	P	
		3½"x18" ⁽³⁾	T	M	P	3½"x20" ⁽³⁾	M	P	5¼"x19" ⁽³⁾	M	P	
		5¼"x14"	T	M	P	5¼"x16"	M	P	7"x16"	M	P	
Snow Load 50LL + 15 DL	24'	3½"x16" ⁽³⁾	T	M	P	3½"x18" ⁽³⁾	M	P	3½"x19" ⁽³⁾	M	P	
		5¼"x14"	T	M	P	3½"x19" ⁽³⁾	M	P	3½"x20" ⁽³⁾	M	P	
						5¼"x16"	T	M	P	5¼"x18"	M	P
	30'	3½"x16" ⁽³⁾	T	M	P	3½"x18¾" ⁽³⁾	M	P	5¼"x18" ⁽³⁾	M	P	
		3½"x18" ⁽³⁾	T	M	P	3½"x19" ⁽³⁾	M	P	5¼"x19" ⁽³⁾	M	P	
		5¼"x14"	T	M	P	5¼"x16"	M	P	7"x16"	M	P	
Floor Load 40LL + 12DL	36'	3½"x18" ⁽³⁾	T	M	P	5¼"x18" ⁽³⁾	M	P	5¼"x19" ⁽³⁾	M	P	
		3½"x19" ⁽³⁾	T	M	P	5¼"x19" ⁽³⁾	M	P	5¼"x20" ⁽³⁾	M	P	
		5¼"x16"	T	M	P	7"x16"	M	P				

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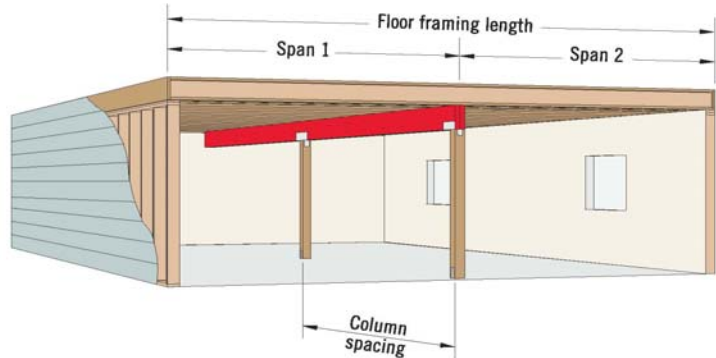
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Refer to iLevel Trus Joist® Beams, Headers, and Columns Specifier's Guide TJ-9500 for other load conditions or configurations not covered by this flyer, general assumptions, installation details, and other information.

How to Use This Table:

1. Determine appropriate unfactored floor load.
2. Find the **Floor Framing Length** that meets or exceeds the sum of spans 1 and 2 for the supported floor joists. When floor joists are continuous span, span 1 or 2 cannot be less than 40% of the **Floor Framing Length**. If floor joists are simple span (not continuous over the beam), then the floor framing length may be taken as 80% of span 1 plus span 2.
3. Locate **Column Spacing**.
4. Select beam size and material.



Also see **General Notes** on page 10.

Floor Girder Beams

Unfactored Load (psf)	Floor Framing Length	Column Spacing															
		10'			12'			14'			16'						
Floor Load 40LL + 12DL	24'	3½"x9½"	M	P	3½"x11¼"	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P		
		3½"x11¼"	T	M	P	3½"x14"	T	M	P	5¼"x11¼"	T	M	P	5¼"x14"	T	M	P
		5¼"x9¼"	T	M	P	5¼"x9½"	T	M	P	5¼"x11½"	T	M	P				
	28'	3½"x11¼"	T	M	P	3½"x11½"	T	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P
		5¼"x9¼"	T	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P	5¼"x14"	T	M	P
					5¼"x11¼"	T	M	P	5¼"x11½"	T	M	P	5¼"x16"	T	M	P	
	32'	3½"x11¼"	T	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P	3½"x16" ⁽³⁾			P
		5¼"x9¼"	T	M	P	5¼"x11¼"	T	M	P	5¼"x14"	T	M	P	3½"x18" ⁽³⁾		M	P
					5¼"x11½"	T	M	P					5¼"x14"		M	P	
	36'	3½"x11½"	T	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P	3½"x18" ⁽³⁾		M	P
		5¼"x9½"	T	M	P	5¼"x11¼"	T	M	P	5¼"x14"	T	M	P	3½"x19" ⁽³⁾		M	P
		5¼"x11¼"	T	M	P								5¼"x16"	T	M	P	
40'	3½"x11¼"	T	M	P	3½"x14"	T	M	P	3½"x16" ⁽³⁾	T	M	P	3½"x18" ⁽³⁾		M	P	
	3½"x14"	T	M	P	3½"x16"	T	M	P	5¼"x14"	T	M	P	3½"x19" ⁽³⁾		M	P	
	5¼"x9½"	T	M	P	5¼"x11½"	T	M	P	5¼"x16"	T	M	P	5¼"x16"	T	M	P	
Floor Load 40LL + 30DL	24'	3½"x11¼"	T	M	P	3½"x11½"	T	M	P	3½"x14"	T	M	P	3½"x16" ⁽³⁾		M	P
		5¼"x9¼"	T	M	P	3½"x14"	T	M	P	3½"x16"	T	M	P	5¼"x14"		M	P
					5¼"x11¼"	T	M	P	5¼"x11½"	T	M	P	5¼"x16"	T	M	P	
	28'	3½"x11¼"	T	M	P	3½"x14"	T	M	P	3½"x16" ⁽³⁾	T	M	P	3½"x18" ⁽³⁾		M	P
		5¼"x9¼"	T	M	P	5¼"x11¼"	T	M	P	5¼"x14"	T	M	P	3½"x19" ⁽³⁾		M	P
					5¼"x11½"	T	M	P					5¼"x16"	T	M	P	
	32'	3½"x11½"	T	M	P	3½"x14" ⁽³⁾	T	M	P	3½"x16" ⁽³⁾	T	M	P	3½"x18" ⁽³⁾		M	P
		5¼"x9½"	T	M	P	3½"x16"	T	M	P	5¼"x14"	T	M	P	3½"x19" ⁽³⁾		M	P
		5¼"x11¼"	T	M	P	5¼"x11½"	T	M	P	5¼"x16"	T	M	P	5¼"x16"		M	P
	36'	3½"x11½"	T	M	P	3½"x14" ⁽³⁾	T	M	P	3½"x16" ⁽³⁾	T	M	P	3½"x18" ⁽³⁾		M	P
		3½"x14"	T	M	P	3½"x16" ⁽³⁾	T	M	P	3½"x18" ⁽³⁾	T	M	P	3½"x19" ⁽³⁾		M	P
		5¼"x11¼"	T	M	P	5¼"x11½"	T	M	P	5¼"x14"	T	M	P	5¼"x16"		M	P
40'	3½"x11½" ⁽³⁾	T	M	P	3½"x14" ⁽³⁾	T	M	P	3½"x16" ⁽³⁾	T	M	P	5¼"x16" ⁽³⁾		M	P	
	3½"x14" ⁽³⁾	T	M	P	3½"x16" ⁽³⁾	T	M	P	3½"x18" ⁽³⁾	T	M	P					
	5¼"x11¼"	T	M	P	5¼"x14"	T	M	P	5¼"x14"	T	M	P					

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Refer to iLevel Trus Joist® Beams, Headers, and Columns Specifier's Guide TJ-9500 for other load conditions or configurations not covered by this flyer, general assumptions, installation details, and other information.

General Notes:

- Tables are based on:
 - Uniform loads.
 - More restrictive of simple or continuous beam span. Ratio of short span to long span should be 0.4 or greater to prevent uplift.
 - Deflection criteria of L/360 live load and L/240 total load.
 - See **How to Use This Table** on page 9.

Bearing Requirements:

Minimum header support to be 2 trimmers (3") at each end and 7½" at continuous-span supports.

(3) - requires 3 trimmers (4½") at each end and 11¼" at continuous-span supports.

Floor Girder Beams (cont.)

Unfactored Load (psf)	Floor Framing Length	Column Spacing												
		18'			20'			22'			24'			
Floor Load 40LL + 12DL	24'	3½"x18"	M		3½"x18¾"	M		3½"x20 ⁽³⁾	M		5¼"x18¾"	M		
		3½"x19"		P	3½"x19"		P	5¼"x18"		M	5¼"x19"		P	
		5¼"x16"	T	M	P	5¼"x16"		M	P	5¼"x19"				
	28'	3½"x18 ⁽³⁾		M		3½"x19 ⁽³⁾		P	5¼"x18"		M	5¼"x19"		P
		3½"x19 ⁽³⁾			P	3½"x20 ⁽³⁾		M		P	5¼"x19"			M
		5¼"x16"		M	P	5¼"x18"		M		P	7"x16"			
	32'	3½"x18 ⁽³⁾		M		3½"x20 ⁽³⁾		M		P	5¼"x18¾"		M	5¼"x20"
		3½"x19 ⁽³⁾			P	5¼"x18"		M		P	5¼"x19"			P
		5¼"x16"		M	P	5¼"x19"			P					
	36'	3½"x18¾ ⁽³⁾		M		5¼"x18"		M		P	5¼"x19"			P
		3½"x19 ⁽³⁾			P	5¼"x19"			P	5¼"x20"		M		
		5¼"x16"		M	P	7"x16"			P					
	40'	3½"x19 ⁽³⁾			P	5¼"x18"		M		P	5¼"x20 ⁽³⁾		M	7"x19"
		3½"x20 ⁽³⁾		M		5¼"x19"			P	7"x19"			P	
		5¼"x18"		M		7"x16"			P					
Floor Load 40LL + 30DL	24'	3½"x18 ⁽³⁾		M		3½"x20 ⁽³⁾		M		5¼"x18¾"		M	7"x19"	
		3½"x19 ⁽³⁾			P	5¼"x18"		M		P	5¼"x19"			
		5¼"x16"		M	P	5¼"x19"			P					
	28'	3½"x18¾ ⁽³⁾		M		5¼"x18"		M		P	5¼"x20 ⁽³⁾		M	7"x19"
		3½"x19 ⁽³⁾			P	5¼"x19"			P	7"x19"			P	
		5¼"x16"			P	7"x16"			P					
	32'	3½"x19 ⁽³⁾			P	5¼"x18¾ ⁽³⁾		M		P	7"x19"			
		3½"x20 ⁽³⁾		M		5¼"x19 ⁽³⁾			P					
		5¼"x18"		M										
	36'	5¼"x18 ⁽³⁾		M		5¼"x19 ⁽³⁾			P	7"x19"			P	
		5¼"x19 ⁽³⁾			P	5¼"x20 ⁽³⁾		M						
		7"x16"			P									
	40'	5¼"x18 ⁽³⁾		M		5¼"x20 ⁽³⁾		M						
		5¼"x19 ⁽³⁾			P	7"x19"			P					
		7"x16"			P									

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