



BEAMS, HEADERS, AND COLUMNS

Featuring Trus Joist® TimberStrand® LSL,
Microllam® LVL, and Parallam® PSL

- Uniform and Predictable
- Minimal Bowing, Twisting, and Shrinking
- Strong and Straight
- Limited Product Warranty



FLOOR SOLUTIONS

ROOF SOLUTIONS

WALL SOLUTIONS



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About This Guide

iLevel provides products for use in residential, multi-family, and light commercial construction. The products in this guide are readily available through our nationwide network of distributors and dealers. For more information on other applications or iLevel products, contact your iLevel representative.

Why Choose iLevel® Trus Joist® Beams, Columns, and Headers?

- **Dependable performance**
- **Consistent quality and dependable uniformity**
- **Flexible solutions for your beam and header needs**

Using advanced technology, iLevel manufactures engineered lumber that is consistently straight and strong, and that resists bowing, twisting, and shrinking.

That means less waste, easier installation, and higher design values for starters; plus fewer callbacks, shorter cycle times, more design flexibility, and lower overall installed cost in the end. iLevel® Trus Joist® TimberStrand® LSL, Microllam® LVL, and Parallam® PSL are structural solutions you can count on—guaranteed.

Available Widths and Depths for iLevel® Trus Joist® Engineered Lumber

■ TimberStrand® LSL

1.55E TimberStrand® LSL is available in the following sizes:

Widths: 1¾" and 3½"

Depths: 9¼", 9½", 11¼", 11⅞", 14", and 16"

1.3E TimberStrand® LSL headers are available in the following sizes:

Width: 3½"

Depths: 4⅜", 5½", 7¼", 8⅝", 9¼", and 11¼"

1.3E TimberStrand® LSL columns and posts are available in the following sizes:

3½" x 3½" 3½" x 4⅜" 3½" x 5½" 3½" x 7¼" 3½" x 8⅝"

■ Microllam® LVL

1.9E Microllam® LVL headers and beams are available in the following sizes:

Width: 1¾"

Depths: 5½", 7¼", 9¼", 9½", 11¼", 11⅞", 14", 16", 18", and 20"

■ Parallam® PSL

2.0E Parallam® PSL headers and beams are available in the following sizes:

Widths: 3½", 5¼", and 7"

Depths: 9¼", 9½", 11¼", 11⅞", 14", 16", and 18"

1.8E Parallam® PSL columns and posts are available in the following sizes:

3½" x 3½" 3½" x 5¼" 3½" x 7" 5¼" x 5¼" 5¼" x 7" 7" x 7"

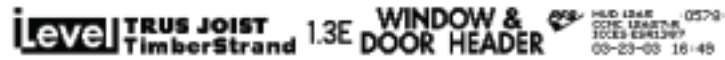
Some sizes may not be available in your region.

iLevel® Trus Joist® TimberStrand® Laminated Strand Lumber (LSL)

- One-piece members reduce labor time
- Every piece is straight and strong
- Unique properties allow you to drill larger holes through 1.55E TimberStrand® LSL. See **Allowable Holes** on page 36.

TimberStrand® LSL Grade Verification

TimberStrand® LSL is available in more than one grade. The product is stamped with its grade information, as shown in the examples below. With 1.55E TimberStrand® LSL, larger holes can be drilled through the beam.



Actual stamps shown.

Code Evaluations: See ICC ES ESR-1387 and HUD MR 1265



iLevel® Trus Joist® Microllam® Laminated Veneer Lumber (LVL)

- Can easily be built up on site to reduce heavy lifting
- Offers reliable and economical solutions for beam and header applications
- Manufacturing process minimizes many of the natural inconsistencies found in wood
- Available in some regions with a Watershed™ overlay for on-site weather protection

Code Evaluations: See ICC ES ESR-1387 and HUD MR 925



iLevel® Trus Joist® Parallam® Parallel Strand Lumber (PSL)

- Allows long spans for open floor plans without intermediate posts or columns
- Has warm, unique grain that is perfect for applications with exposed beams
- Provides ideal solutions for cantilever and multi-span applications
- Solid sections save time on site assembly
- Available in some regions with preservative treatment for exterior applications

Code Evaluations: See ICC ES ESR-1387 and HUD MR 1303



DESIGN PROPERTIES

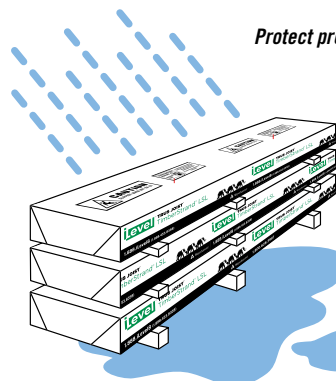
Allowable Design Properties⁽¹⁾ (100% Load Duration)

Grade	Width	Design Property	Depth												
			4⅜"	5½"	5½" Plank Orientation	7¼"	8⅝"	9¼"	9½"	11¼"	11⅞"	14"	16"	18"	20"
TimberStrand® LSL															
1.3E	3½"	Moment (ft-lbs)	1,735	2,685	1,780	4,550	6,335	7,240		10,520					
		Shear (lbs)	4,085	5,135	1,925	6,765	8,050	8,635		10,500					
		Moment of Inertia (in.⁴)	24	49	20	111	187	231		415					
		Weight (plf)	4.5	5.6	5.6	7.4	8.8	9.4		11.5					
1.55E	1¾"	Moment (ft-lbs)						4,950	5,210	7,195	7,975	10,920	14,090		
		Shear (lbs)						3,345	3,435	4,070	4,295	5,065	5,785		
		Moment of Inertia (in.⁴)						115	125	208	244	400	597		
		Weight (plf)						5.1	5.2	6.2	6.5	7.7	8.8		
	3½"	Moment (ft-lbs)						9,905	10,420	14,390	15,955	21,840	28,180		
		Shear (lbs)						6,690	6,870	8,140	8,590	10,125	11,575		
		Moment of Inertia (in.⁴)						231	250	415	488	800	1,195		
		Weight (plf)						10.1	10.4	12.3	13	15.3	17.5		
Microllam® LVL															
1.9E	1¾"	Moment (ft-lbs)		2,125		3,555		5,600	5,885	8,070	8,925	12,130	15,555	19,375	23,580
		Shear (lbs)		1,830		2,410		3,075	3,160	3,740	3,950	4,655	5,320	5,985	6,650
		Moment of Inertia (in.⁴)		24		56		115	125	208	244	400	597	851	1,167
		Weight (plf)		2.8		3.7		4.7	4.8	5.7	6.1	7.1	8.2	9.2	10.2
Parallam® PSL															
2.0E	3½"	Moment (ft-lbs)						12,415	13,055	17,970	19,900	27,160	34,955	43,665	
		Shear (lbs)						6,260	6,430	7,615	8,035	9,475	10,825	12,180	
		Moment of Inertia (in.⁴)						231	250	415	488	800	1,195	1,701	
		Weight (plf)						10.1	10.4	12.3	13.0	15.3	17.5	19.7	
	5¼"	Moment (ft-lbs)						18,625	19,585	26,955	29,855	40,740	52,430	65,495	
		Shear (lbs)						9,390	9,645	11,420	12,055	14,210	16,240	18,270	
		Moment of Inertia (in.⁴)						346	375	623	733	1,201	1,792	2,552	
		Weight (plf)						15.2	15.6	18.5	19.5	23.0	26.3	29.5	
	7"	Moment (ft-lbs)						24,830	26,115	35,940	39,805	54,325	69,905	87,325	
		Shear (lbs)						12,520	12,855	15,225	16,070	18,945	21,655	24,360	
		Moment of Inertia (in.⁴)						462	500	831	977	1,601	2,389	3,402	
		Weight (plf)						20.2	20.8	24.6	26.0	30.6	35.0	39.4	

(1) For product in beam orientation, unless otherwise noted.

Some sizes may not be available in your region.

PRODUCT STORAGE



Protect product from sun and water

CAUTION:
Wrap is slippery when wet or icy

Use support blocks at 10' on-center to keep bundles out of mud and water

DESIGN PROPERTIES

Design Stresses

Grade	Orientation	G Shear Modulus of Elasticity (psi)	E Modulus of Elasticity (psi)	E _{min} Adjusted Modulus of Elasticity ⁽¹⁾ (psi)	F _b Flexural Stress ⁽²⁾ (psi)	F _t Tension Stress ⁽³⁾ (psi)	F _{c⊥} Compression Perpendicular to Grain ⁽⁴⁾ (psi)	F _c Compression Parallel to Grain (psi)	F _v Horizontal Shear Parallel to Grain (psi)	SG Equivalent Specific Gravity ⁽⁵⁾
TimberStrand® LSL										
1.3E	Beam/Column	81,250	1.3 x 10 ⁶	660,750	1,700	1,075	680	1,400	400	0.50 ⁽⁶⁾
	Plank	81,250	1.3 x 10 ⁶	660,750	1,900 ⁽⁷⁾	1,075	435	1,400	150	0.50 ⁽⁶⁾
1.55E	Beam	96,875	1.55 x 10 ⁶	787,815	2,325	1,070 ⁽⁸⁾	800	2,050	310 ⁽⁸⁾	0.50 ⁽⁶⁾
Microllam® LVL										
1.9E	Beam	118,750	1.9 x 10 ⁶	965,710	2,600	1,555	750	2,510	285	0.50
Parallam® PSL										
1.8E	Column	112,500	1.8 x 10 ⁶	914,880	2,400 ⁽⁹⁾	1,755	425 ⁽⁹⁾	2,500	190 ⁽⁹⁾	0.50
2.0E	Beam	125,000	2.0 x 10 ⁶	1,016,535	2,900	2,025	750	2,900 ⁽¹⁰⁾	290	0.50

(1) Reference modulus of elasticity for beam stability and column stability calculations, per NDS® 2005.

(2) For 12" depth. For other depths, multiply F_b by the appropriate factor as follows:

- For TimberStrand® LSL, multiply by $\left[\frac{12}{d}\right]^{0.092}$
- For Microllam® LVL, multiply by $\left[\frac{12}{d}\right]^{0.136}$
- For Parallam® PSL, multiply by $\left[\frac{12}{d}\right]^{0.111}$

(3) F_t has been adjusted to reflect the volume effects for most standard applications.

(4) F_{c⊥} may not be increased for duration of load.

(5) For lateral connection design only.

(6) Specific gravity of 0.58 may be used for bolts installed perpendicular to face and loaded perpendicular to grain.

(7) Values are for thickness up to 3½".

(8) Values account for large hole capabilities. See **Allowable Holes** on page 36.

(9) Values are for plank orientation.

(10) For column applications, use a design stress of 500 psi to account for initial eccentricity.

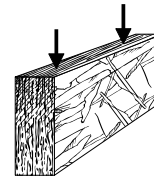
General Assumptions for iLevel® Trus Joist® Beams

- Lateral support is required at bearing and along the span at 24" on-center, maximum.
- Bearing lengths are based on each product's bearing stress for applicable grade and orientation.
- All members 7¼" and less in depth are restricted to a maximum deflection of ⅝".
- Beams that are 1¾" x 16" and deeper require multiple plies.
- No camber.
- Beams and columns must remain straight to within 5L/4608 (in.) of true alignment. L is the unrestrained length of the member in feet.
- Tables on pages 8–15 include load reductions applied in accordance with code.

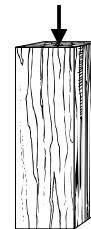
For applications not covered in this brochure, contact your iLevel representative.

See pages 38 and 39 for multiple-member beam connections.

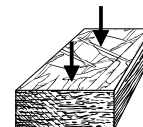
Beam Orientation



Column Orientation



Plank Orientation



TimberStrand® LSL, Microllam® LVL, and untreated Parallam® PSL are intended for dry-use applications

SIZING TABLES

How to Use This Table

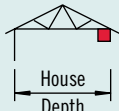
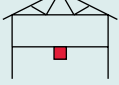
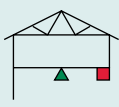
1. Determine **Header Condition**.
2. Locate **Rough Opening**.
3. Determine loading and **House Depth**.
4. Select TimberStrand® LSL header depth.

Note: ***Bold italic*** indicates that a 3½" x 5½" TimberStrand® LSL header can be installed in plank orientation in a 2x6 wall.

Also see **General Notes** on page 7.

1.3E TimberStrand® LSL

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

Header Condition	Rough Opening	Non-Snow Area 125%						Snow Area 115%					
		Roof Load = 20LL + 15DL Floor Load = 40LL + 12DL			Roof Load = 30LL + 15DL Floor Load = 40LL + 12DL			Roof Load = 40LL + 15DL Floor Load = 40LL + 12DL			Roof Load = 55LL + 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"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"
	3'-8"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	5½"	5½"	5½"
	4'-2"	4¾"	4¾"	4¾"	4¾"	4¾"	5½"	5½"	5½"	5½"	5½"	5½"	5½"
	4'-8"	4¾"	4¾"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	7¼"	7¼"	7¼"
	5'-2"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	7¼"	7¼"	7¼"	7¼"	7¼"
	5'-8"	5½"	5½"	5½"	5½"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	8⅝" ⁽²⁾	8⅝" ⁽²⁾
	6'-2"	5½"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	8⅝"	8⅝" ⁽²⁾	8⅝" ⁽²⁾
	6'-8"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	8⅝"	8⅝"	8⅝"	8⅝" ⁽²⁾	9¼" ⁽²⁾
	7'-2"	7¼"	7¼"	7¼"	7¼"	8⅝"	8⅝"	8⅝"	8⅝"	8⅝" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾
	8'-2"	8⅝"	8⅝"	8⅝"	8⅝"	8⅝"	8⅝"	8⅝"	9¼" ⁽²⁾	11¼" ⁽²⁾	11¼" ⁽²⁾	11¼" ⁽²⁾	11¼" ⁽²⁾
Floor – One Story 	3'-2"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"
	3'-8"	4¾"	4¾"	5½"	4¾"	4¾"	5½"	4¾"	4¾"	5½"	4¾"	4¾"	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"	7¼"	8⅝"	8⅝"	7¼"	8⅝"	8⅝"	7¼"	8⅝"	8⅝"
	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⁾
Roof Plus One Story (Bearing) 	3'-2"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	4¾"	5½"	4¾"	5½"	5½"
	3'-8"	4¾"	4¾"	4¾"	4¾"	4¾"	5½"	5½"	5½"	5½"	5½"	5½"	7¼"
	4'-2"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	7¼"	7¼"	7¼"	7¼" ⁽²⁾
	4'-8"	5½"	5½"	7¼"	5½"	7¼"	7¼"	7¼"	7¼"	7¼" ⁽²⁾	7¼"	7¼" ⁽²⁾	8⅝" ⁽²⁾
	5'-2"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	7¼"	8⅝" ⁽²⁾	7¼" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾
	5'-8"	7¼"	7¼"	7¼"	7¼"	7¼"	8⅝" ⁽²⁾	7¼"	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾
	6'-2"	7¼"	7¼"	8⅝"	7¼"	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾
	6'-8"	8⅝"	8⅝"	8⅝" ⁽²⁾	8⅝"	8⅝" ⁽²⁾	9¼" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	11¼" ⁽²⁾
	7'-2"	8⅝"	8⅝" ⁽²⁾	8⅝" ⁽²⁾	8⅝" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	9¼" ⁽²⁾	11¼" ⁽²⁾	11¼" ⁽²⁾	11¼" ⁽²⁾	11¼" ⁽²⁾	
	8'-2"	9¼" ⁽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⁾								

■ 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_n trimmers required at end of header.

▪ See **Bearing Requirements** on page 7 for bearing length requirements at continuous-span supports.

SIZING TABLES

General Notes

- Tables are based on:
 - Uniform loads.
 - More restrictive of simple or continuous span. Ratio of short span to long span should be greater than 0.4 to prevent uplift.
 - Roof truss framing with 24" soffits.
 - Exterior wall weights of 80 plf, interior 60 plf.
 - Deflection criteria of L/360 live load and L/240 total load.
- Tables do not consider attic loads acting concurrently with roof or snow loads.

Also see **How to Use This Table** on page 6 and **General Assumptions** on page 5.

Bearing Requirements

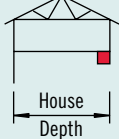
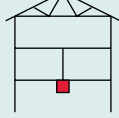
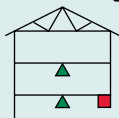
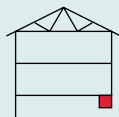
Tables assume minimum header support to be one trimmer (1½") at each end and 4½" at continuous-span supports.

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

(3) Minimum header support to be three trimmers (4½") at each end and 11¼" at continuous-span supports.

For additional bearing information, see pages 34 and 36.

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

Header Condition	Rough Opening	Non-Snow Area 125%						Snow Area 115%					
		Roof Load = 20LL + 15DL Floor Load = 40LL + 12DL			Roof Load = 30LL + 15DL Floor Load = 40LL + 12DL			Roof Load = 40LL + 15DL Floor Load = 40LL + 12DL			Roof Load = 55LL + 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 Story (No bearing) 	3'-2"	4¾"	4¾"	4¾"	4¾"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	7¼ ⁽²⁾
	3'-8"	5½"	5½"	5½"	5½"	5½"	7¼"	5½"	5½"	7¼ ⁽²⁾	5½"	7¼ ⁽²⁾	7¼ ⁽²⁾
	4'-2"	5½"	5½"	7¼"	5½"	7¼"	7¼ ⁽²⁾	7¼"	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	8¾ ⁽²⁾
	4'-8"	7¼"	7¼"	7¼ ⁽²⁾	7¼"	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼"	7¼ ⁽²⁾	8¾ ⁽²⁾	7¼ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾
	5'-2"	7¼"	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼"	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾
	5'-8"	7¼"	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	8¾ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾
	6'-2"	8¾ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽³⁾
	6'-8"	8¾ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	
	7'-2"	9¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾		11¼ ⁽²⁾		
	8'-2"	11¼ ⁽²⁾	11¼ ⁽²⁾		11¼ ⁽²⁾								
Floor - Two Stories 	3'-2"	5½"	5½"	7¼"	5½"	5½"	7¼"	5½"	5½"	7¼"	5½"	5½"	7¼"
	3'-8"	7¼"	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼"	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼"	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼"	7¼ ⁽²⁾	7¼ ⁽²⁾
	4'-2"	7¼"	8¾ ⁽²⁾	8¾ ⁽²⁾	7¼"	8¾ ⁽²⁾	8¾ ⁽²⁾	7¼"	8¾ ⁽²⁾	8¾ ⁽²⁾	7¼"	8¾ ⁽²⁾	8¾ ⁽²⁾
	4'-8"	8¾ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾
	5'-2"	8¾ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾
	5'-8"	9¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾
	6'-2"	11¼ ⁽²⁾	11¼ ⁽²⁾		11¼ ⁽²⁾	11¼ ⁽²⁾		11¼ ⁽²⁾	11¼ ⁽²⁾		11¼ ⁽²⁾	11¼ ⁽²⁾	
	6'-8"												
Roof Plus Two Stories (Bearing) 	3'-2"	4¾"	4¾"	5½"	4¾"	5½"	5½"	5½"	5½"	5½"	5½"	5½"	7¼ ⁽²⁾
	3'-8"	5½"	5½"	5½"	5½"	5½"	7¼"	5½"	7¼"	7¼ ⁽²⁾	7¼"	7¼ ⁽²⁾	7¼ ⁽²⁾
	4'-2"	5½"	5½"	7¼"	7¼"	7¼"	7¼ ⁽²⁾	7¼"	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	8¾ ⁽²⁾
	4'-8"	7¼"	7¼"	7¼ ⁽²⁾	7¼"	7¼ ⁽²⁾	8¾ ⁽²⁾	7¼"	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾
	5'-2"	7¼"	7¼ ⁽²⁾	8¾ ⁽²⁾	7¼ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	9¼ ⁽²⁾
	5'-8"	7¼ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾
	6'-2"	8¾ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	9¼ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	
	6'-8"	8¾ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾		11¼ ⁽²⁾		
	7'-2"	9¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽²⁾		11¼ ⁽²⁾					
Roof Plus Two Stories (No Bearing) 	3'-2"	5½"	7¼ ⁽²⁾	7¼ ⁽²⁾	5½"	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾
	3'-8"	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	7¼ ⁽²⁾	8¾ ⁽²⁾	7¼ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾
	4'-2"	7¼ ⁽²⁾	7¼ ⁽²⁾	8¾ ⁽²⁾	7¼ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾
	4'-8"	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽³⁾	8¾ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽³⁾
	5'-2"	8¾ ⁽²⁾	9¼ ⁽²⁾	9¼ ⁽²⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽³⁾	9¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽³⁾	11¼ ⁽²⁾	11¼ ⁽³⁾	11¼ ⁽³⁾
	5'-8"	9¼ ⁽²⁾	11¼ ⁽²⁾	11¼ ⁽³⁾	11¼ ⁽²⁾	11¼ ⁽³⁾	11¼ ⁽³⁾	11¼ ⁽²⁾	11¼ ⁽³⁾		11¼ ⁽³⁾		
	6'-2"	11¼ ⁽²⁾	11¼ ⁽³⁾	11¼ ⁽³⁾	11¼ ⁽²⁾			11¼ ⁽³⁾					
	6'-8"												

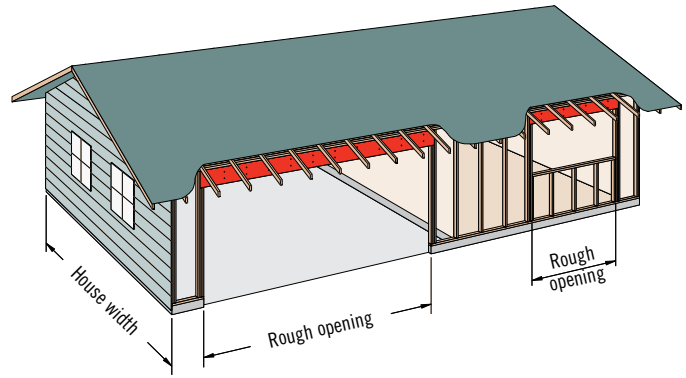
- Symbol represents location of TimberStrand® LSL header.
- ▲ Symbol represents supporting beam or structural bearing wall located at center of house, below floor.
- () Symbol represents minimum number of 2x trimmers required at end of header.
- See **Bearing Requirements** above for bearing length requirements at continuous-span supports.

SIZING TABLES

How to Use This Table

1. Determine appropriate **Roof Load** and **House Width**.
 2. Locate **Rough Opening**.
 3. Select header size and material.
- iLevel offers 1.55E TimberStrand® LSL pre-cut garage door headers; however, they are not available in all regions. Call 1-888-453-8358 to determine availability.

Also see **General Notes** on page 9.



Headers Supporting Roof

Roof Load (PSF)		House Width	Rough Opening											
			8'			9'-3"			10'			12'		
Non-Snow Area 125%	20LL + 15DL	24'	1¾" x 9¼"	T	M	1¾" x 9¼"	T	M	1¾" x 9¼"	T	M	1¾" x 11¼"	T	M
			3½" x 7¼"		M	3½" x 9¼"	T	M	3½" x 11¼"	T	M	3½" x 11½"	T	M
			3½" x 9¼"	T	M	5¼" x 7¼"		P	3½" x 9¼"	T	M	3½" x 9¼"	T	M
		30'	1¾" x 9¼"	T	M	1¾" x 9¼"	T	M	1¾" x 11¼"	T	M	1¾" x 14"	T	M
			3½" x 7¼"		M	1¾" x 11¼"	T	M	3½" x 9¼"	T	M	3½" x 9¼"	T	M
			3½" x 9¼"	T	M	3½" x 9¼"	T	M				3½" x 11¼"	T	M
		36'	1¾" x 9¼"	T	M	1¾" x 11¼"	T	M	1¾" x 11¼"	T	M	1¾" x 14 ⁽³⁾	T	M
			3½" x 9¼"	T	M	3½" x 9¼"	T	M	1¾" x 11½"	T	M	3½" x 9½"	T	M
			5¼" x 7¼"		M				3½" x 9¼"	T	M	3½" x 11¼"	T	M
	20LL + 20DL	24'	1¾" x 9¼"	T	M	1¾" x 9¼"	T	M	1¾" x 11¼"	T	M	1¾" x 11½"	T	M
			3½" x 7¼"		M	1¾" x 9½"	T	M	3½" x 9¼"	T	M	1¾" x 14"	T	M
			3½" x 9¼"	T	M	3½" x 9¼"	T	M				3½" x 9½"	T	M
		30'	1¾" x 9¼"	T	M	1¾" x 11¼"	T	M	1¾" x 11¼"	T	M	1¾" x 14 ⁽³⁾	T	M
			3½" x 9¼"	T	M	3½" x 9¼"	T	M	1¾" x 11½"	T	M	3½" x 9½"	T	M
			5¼" x 7¼"		M				3½" x 9¼"	T	M	3½" x 11¼"	T	M
		36'	1¾" x 9¼"	T	M	1¾" x 11¼"	T	M	1¾" x 11½ ⁽³⁾	T	M	3½" x 11¼"	T	M
			1¾" x 11¼"	T	M	1¾" x 11½"	T	M	1¾" x 14 ⁽³⁾	T	M	5¼" x 9¼"	T	M
			3½" x 9¼"	T	M	3½" x 9¼"	T	M	3½" x 9¼"	T	M			
Snow Area 115%	25LL + 15DL	24'	1¾" x 9¼"	T	M	1¾" x 9¼"	T	M	1¾" x 11¼"	T	M	1¾" x 14"	T	M
			3½" x 7¼"		M	1¾" x 11¼"	T	M	3½" x 9¼"	T	M	3½" x 9½"	T	M
			3½" x 9¼"	T	M	3½" x 9¼"	T	M				5¼" x 9¼"	T	M
		30'	1¾" x 9½"	T	M	1¾" x 11¼"	T	M	1¾" x 11¼"	T	M	1¾" x 14 ⁽³⁾	T	M
			3½" x 9¼"	T	M	3½" x 9¼"	T	M	1¾" x 11½"	T	M	3½" x 9½"	T	M
			5¼" x 7¼"		M				3½" x 9¼"	T	M	3½" x 11¼"	T	M
		36'	1¾" x 11¼"	T	M	1¾" x 11¼"	T	M	1¾" x 14 ⁽³⁾	T	M	3½" x 11¼"	T	M
			3½" x 9¼"	T	M	1¾" x 11½"	T	M	3½" x 9¼"	T	M	5¼" x 9¼"	T	M
			5¼" x 7¼"		M	3½" x 9¼"	T	M						
	30LL + 15DL	24'	1¾" x 9¼"	T	M	1¾" x 11¼"	T	M	1¾" x 11¼"	T	M	1¾" x 14 ⁽³⁾	T	M
			3½" x 9¼"	T	M	3½" x 9¼"	T	M	1¾" x 11½"	T	M	3½" x 9¼"	T	M
			5¼" x 7¼"		M				3½" x 9¼"	T	M	3½" x 11¼"	T	M
		30'	1¾" x 9½"	T	M	1¾" x 11¼"	T	M	1¾" x 14 ⁽³⁾	T	M	3½" x 11¼"	T	M
			1¾" x 11¼"	T	M	1¾" x 11½"	T	M	3½" x 9¼"	T	M	5¼" x 9¼"	T	M
			3½" x 9¼"	T	M	3½" x 9¼"	T	M						
		36'	1¾" x 11¼"	T	M	1¾" x 14 ⁽³⁾	T	M	1¾" x 14 ⁽³⁾	T	M	3½" x 11½"	T	M
			3½" x 9¼"	T	M	3½" x 9¼"	T	M	3½" x 9½"	T	M	5¼" x 9¼"	T	M
			5¼" x 7¼"		M				5¼" x 9¼"	T	M	5¼" x 11¼"	T	M
	40LL + 15DL	24'	1¾" x 9½"	T	M	1¾" x 11¼"	T	M	1¾" x 14 ⁽³⁾	T	M	3½" x 11¼"	T	M
			1¾" x 11¼"	T	M	1¾" x 11½"	T	M	3½" x 9¼"	T	M	5¼" x 9¼"	T	M
			3½" x 9¼"	T	M	3½" x 9¼"	T	M						
		30'	1¾" x 11¼ ⁽³⁾	T	M	1¾" x 14 ⁽³⁾	T	M	1¾" x 14 ⁽³⁾	T	M	3½" x 11½"	T	M
			3½" x 9¼"	T	M	3½" x 9¼"	T	M	3½" x 9¼"	T	M	5¼" x 9¼"	T	M
									3½" x 11¼"	T	M	5¼" x 11¼"	T	M
		36'	1¾" x 14 ⁽³⁾	T	M	3½" x 9¼"	T	M	3½" x 9½"	T	M	3½" x 11½"	T	M
			3½" x 9¼"	T	M	3½" x 11¼"	T	M	3½" x 11¼"	T	M	3½" x 14"	T	M
						5¼" x 9¼"	T	M	5¼" x 9¼"	T	M	5¼" x 9½"	T	M

T 1.55E TimberStrand® LSL

M 1.9E Microllam® LVL

P 2.0E Parallam® PSL

SIZING TABLES

General Notes

- Table is 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/240 live load and L/180 total load.
- Tables do not consider attic loads acting concurrently with roof or snow loads.

Also see **How to Use This Table** on page 8 and **General Assumptions** on page 5.

Bearing Requirements

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

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

Headers Supporting Roof *continued*

Roof Load (PSF)		House Width	Rough Opening								
			14'			16'-3"			18'-3"		
Non-Snow Area 125%	20LL + 15DL	24'	1¾" x 14"	T	M	3½" x 11⅞"	T	M	3½" x 14"	T	M
			3½" x 9½"		P	3½" x 14"	T	M	5¼" x 11¼"		P
			3½" x 11¼"	T	M	5¼" x 11¼"	T	M	5¼" x 11⅞"	T	M
		30'	3½" x 11¼"	T	M	3½" x 11⅞"		P	3½" x 14"		P
			5¼" x 9¼"		P	3½" x 14"	T	M	3½" x 16"	T	M
						5¼" x 11¼"	T	M	5¼" x 11⅞"		P
		36'	3½" x 11⅞"	T	M	3½" x 14"	T	M	3½" x 16"	T	M
			5¼" x 9½"		P	5¼" x 11¼"		P	5¼" x 14"	T	M
			5¼" x 11¼"	T	M	5¼" x 11⅞"	T	M			
	20LL + 20DL	24'	1¾" x 14" ⁽³⁾		M	3½" x 11⅞"		P	3½" x 14"		P
			3½" x 11¼"	T	M	3½" x 14"	T	M	3½" x 16"	T	M
			5¼" x 9½"	T	M	5¼" x 11¼"	T	M	5¼" x 11⅞"		P
		30'	3½" x 11⅞"	T	M	3½" x 14"	T	M	3½" x 14"		P
			5¼" x 9½"		P	5¼" x 11¼"		P	3½" x 16"	T	M
			5¼" x 11¼"	T	M	5¼" x 11⅞"	T	M	5¼" x 14"	T	M
		36'	3½" x 11⅞"		P	3½" x 14"		P	3½" x 16"		P
			3½" x 14"	T	M	3½" x 16"	T	M	5¼" x 14"		P
			5¼" x 11¼"	T	M	5¼" x 11⅞"		P	5¼" x 16"	T	M
Snow Area 115%	25LL + 15DL	24'	3½" x 11¼"	T	M	3½" x 11⅞"		P	3½" x 14"		P
			5¼" x 9¼"		P	3½" x 14"	T	M	3½" x 16"	T	M
			5¼" x 9½"	T	M	5¼" x 11¼"	T	M	5¼" x 11⅞"		P
		30'	3½" x 11⅞"	T	M	3½" x 14"	T	M	3½" x 14"		P
			5¼" x 9½"		P	5¼" x 11¼"		P	3½" x 16"	T	M
			5¼" x 11¼"	T	M	5¼" x 11⅞"	T	M	5¼" x 14"	T	M
		36'	3½" x 11⅞"		P	3½" x 14"		P	3½" x 16"		P
			3½" x 14"	T	M	3½" x 16"	T	M	5¼" x 14"		P
			5¼" x 11¼"	T	M	5¼" x 11⅞"		P	5¼" x 16"	T	M
	30LL + 15DL	24'	3½" x 11⅞"	T	M	3½" x 14"	T	M	3½" x 14"		P
			5¼" x 9¼"		P	5¼" x 11¼"		P	3½" x 16"	T	M
			5¼" x 11¼"	T	M	5¼" x 11⅞"	T	M	5¼" x 11⅞"		P
		30'	3½" x 11⅞"		P	3½" x 14"		P	3½" x 16"		P
			3½" x 14"	T	M	3½" x 16"	T	M	5¼" x 14"	T	M
			5¼" x 11¼"	T	M	5¼" x 11⅞"		P			
		36'	3½" x 14"	T	M	3½" x 14"		P	3½" x 16" ⁽³⁾		P
			5¼" x 11¼"	T	M	3½" x 16"	T	M	3½" x 18" ⁽³⁾		P
						5¼" x 14"	T	M	5¼" x 14"		P
	40LL + 15DL	24'	3½" x 11⅞"		P	3½" x 14"		P	3½" x 16"		P
			3½" x 14"	T	M	3½" x 16"	T	M	5¼" x 14"	T	M
			5¼" x 11¼"	T	M	5¼" x 11⅞"		P			
		30'	3½" x 14"	T	M	3½" x 16" ⁽³⁾		P	3½" x 18" ⁽³⁾		P
			5¼" x 11¼"		P	5¼" x 14"	T	M	5¼" x 14"		P
			5¼" x 11⅞"	T	M				5¼" x 16"	T	M
		36'	3½" x 14" ⁽³⁾		P	3½" x 16" ⁽³⁾		P	3½" x 18" ⁽³⁾		P
			3½" x 16" ⁽³⁾	T	M	3½" x 18" ⁽³⁾		P	3½" x 20" ⁽³⁾		P
			5¼" x 11⅞"	T	M	5¼" x 14"	T	M	5¼" x 16"	T	M

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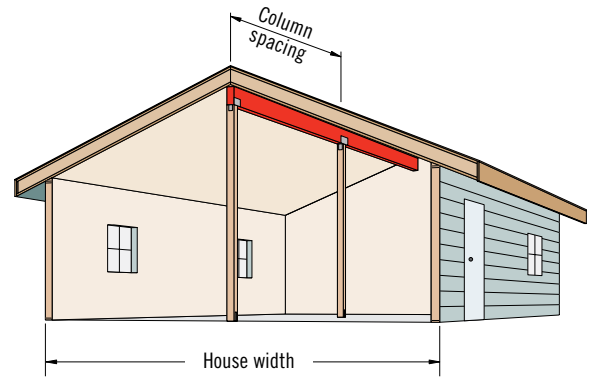
P 2.0E Parallam® PSL

SIZING TABLES

How to Use This Table

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

Also see **General Notes** on page 11.



Ridge Beams

Roof Load (PSF)		House Width	Column Spacing																
			10'			12'			14'			16'							
Non-Snow Area 125%	20LL + 15DL	24'	3½" x 9¼"	T	M	P	3½" x 9¼"	T	M	P	3½" x 9¼"	T	M	P	3½" x 11¼"	T	M	P	
									3½" x 11¼"	T	M	P	5¼" x 9¼"	T	M	P			
									5¼" x 9¼"	T	M	P							
		30'	3½" x 9¼"	T	M	P	3½" x 9¼"	T	M	P	3½" x 11¼"	T	M	P	3½" x 11¼"	T	M	P	
									5¼" x 9¼"	T	M	P	3½" x 14"	T	M	P			
									5¼" x 11¼"	T	M	P							
	20LL + 20DL	24'	3½" x 9¼"	T	M	P	3½" x 9¼"	T	M	P	3½" x 11¼"	T	M	P	3½" x 11⅞"	T	M	P	
									5¼" x 9¼"	T	M	P	5¼" x 11¼"	T	M	P			
									5¼" x 11¼"	T	M	P	5¼" x 11⅞"	T	M	P			
		30'	3½" x 9¼"	T	M	P	3½" x 9¼"	T	M	P	3½" x 11¼"	T	M	P	3½" x 11⅞"	T	M	P	
									5¼" x 9¼"	T	M	P	3½" x 14"	T	M	P			
									5¼" x 9¼"	T	M	P	5¼" x 11¼"	T	M	P			
36'	3½" x 9¼"	T	M	P	3½" x 9½"	T	M	P	3½" x 11⅞"	T	M	P	3½" x 14"	T	M	P			
							5¼" x 9¼"	T	M	P	5¼" x 11¼"	T	M	P					
							5¼" x 9¼"	T	M	P	5¼" x 11⅞"	T	M	P					
	Snow Area 115%	25LL + 15DL	24'	3½" x 9¼"	T	M	P	3½" x 9¼"	T	M	P	3½" x 9½"	T	M	P	3½" x 11⅞"	T	M	P
										3½" x 11¼"	T	M	P	5¼" x 9½"	T	M	P		
										5¼" x 9¼"	T	M	P	5¼" x 11¼"	T	M	P		
30'			3½" x 9¼"	T	M	P	3½" x 9¼"	T	M	P	3½" x 11¼"	T	M	P	3½" x 11⅞"	T	M	P	
									5¼" x 9¼"	T	M	P	3½" x 14"	T	M	P			
									5¼" x 11¼"	T	M	P	5¼" x 11¼"	T	M	P			
30LL + 15DL		24'	3½" x 9¼"	T	M	P	3½" x 9¼"	T	M	P	3½" x 11¼"	T	M	P	3½" x 11⅞"	T	M	P	
									5¼" x 9¼"	T	M	P	3½" x 14"	T	M	P			
									5¼" x 9½"	T	M	P	5¼" x 11¼"	T	M	P			
		30'	3½" x 9¼"	T	M	P	3½" x 9¼"	T	M	P	3½" x 11¼"	T	M	P	3½" x 11⅞"	T	M	P	
									5¼" x 9¼"	T	M	P	3½" x 14"	T	M	P			
									5¼" x 11¼"	T	M	P	5¼" x 11⅞"	T	M	P			
40LL + 15DL	24'	3½" x 9¼"	T	M	P	3½" x 9¼"	T	M	P	3½" x 11⅞"	T	M	P	3½" x 14"	T	M	P		
								5¼" x 9¼"	T	M	P	5¼" x 11¼"	T	M	P				
								5¼" x 11¼"	T	M	P	5¼" x 11⅞"	T	M	P				
	30'	3½" x 9¼"	T	M	P	3½" x 11¼"	T	M	P	3½" x 11⅞"	T	M	P	3½" x 14"	T	M	P		
								5¼" x 9¼"	T	M	P	3½" x 16"	T	M	P				
								5¼" x 11¼"	T	M	P	5¼" x 11⅞"	T	M	P				
36'	3½" x 9¼"	T	M	P	3½" x 11⅞"	T	M	P	3½" x 14"	T	M	P	3½" x 16" ⁽³⁾	T	M	P			
							5¼" x 9¼"	T	M	P	5¼" x 14"	T	M	P					
							5¼" x 11⅞"	T	M	P									

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SIZING TABLES

General Notes

- Table is 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.
 - Deflection criteria of L/240 live load and L/180 total load.

Also see **How to Use This Table** on page 10 and **General Assumptions** on page 5.

Bearing Requirements

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

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

Ridge Beams *continued*

Roof Load (PSF)		House Width	Column Spacing																	
			18'			20'			22'			24'								
Non-Snow Area 125%	20LL + 15DL	24'	3½" x 11⅞"	T	M	P	3½" x 14"	T	M	P	3½" x 16"	T	M	P	3½" x 16"	T	M	P		
			3½" x 14"	T	M	P	5¼" x 11¼"			P	5¼" x 14"	T	M	P	5¼" x 14"			P		
			5¼" x 11¼"	T	M	P	5¼" x 11⅞"			M	P			P	5¼" x 16"	T	M	P		
		30'	3½" x 14"	T	M	P	3½" x 14"			P	3½" x 16"			M	P	3½" x 18"			P	
			5¼" x 11¼"	T	M	P	3½" x 16"	T	M	P	5¼" x 14"			M	P	5¼" x 16"	T	M	P	
			5¼" x 11⅞"	T	M	P	5¼" x 14"	T	M	P	5¼" x 16"	T	M	P	7" x 14"			P		
		36'	3½" x 14"	T	M	P	3½" x 16"			M	P	3½" x 18"			M	P	3½" x 18"			P
			3½" x 16"	T	M	P	5¼" x 14"	T	M	P	5¼" x 16"	T	M	P	5¼" x 16"			P		
			5¼" x 11⅞"	T	M	P				P	7" x 14"			P	7" x 14"			P		
	20LL + 20DL	24'	3½" x 14"	T	M	P	3½" x 14"			M	P	3½" x 16"			M	P	3½" x 18"			P
			5¼" x 11¼"	T	M	P	3½" x 16"	T	M	P	5¼" x 14"			M	P	5¼" x 16"	T	M	P	
			5¼" x 11⅞"	T	M	P	5¼" x 11⅞"			P	5¼" x 16"	T	M	P	7" x 14"			P		
		30'	3½" x 14"	T	M	P	3½" x 16"	T	M	P	3½" x 16"			P	3½" x 18"			P		
			3½" x 16"	T	M	P	5¼" x 14"	T	M	P	3½" x 18"			M	P	5¼" x 16"			P	
			5¼" x 11⅞"	T	M	P				P	5¼" x 14"			P	7" x 14"			P		
		36'	3½" x 14"			P	3½" x 16"			M	P	3½" x 18 ⁽³⁾			M	P	3½" x 20 ⁽³⁾			P
			3½" x 16"	T	M	P	5¼" x 14"			M	P	5¼" x 16"			M	P	5¼" x 18"			P
			5¼" x 14"	T	M	P	5¼" x 16"	T	M	P	7" x 14"			P	7" x 16"			P		
Snow Area 115%	25LL + 15DL	24'	3½" x 14"	T	M	P	3½" x 14"			M	P	3½" x 16"			M	P	3½" x 18"			P
			5¼" x 11¼"	T	M	P	3½" x 16"	T	M	P	5¼" x 14"			M	P	5¼" x 16"	T	M	P	
			5¼" x 11⅞"	T	M	P	5¼" x 11⅞"			P	5¼" x 16"	T	M	P	7" x 14"			P		
		30'	3½" x 14"	T	M	P	3½" x 16"	T	M	P	3½" x 16"			P	3½" x 18"			P		
			3½" x 16"	T	M	P	5¼" x 14"	T	M	P	3½" x 18"			M	P	5¼" x 16"			P	
			5¼" x 11⅞"	T	M	P				P	5¼" x 14"			P	7" x 14"			P		
		36'	3½" x 14"			P	3½" x 16"			P	3½" x 18 ⁽³⁾			P	3½" x 20 ⁽³⁾			P		
			3½" x 16"	T	M	P	3½" x 18"			M	P	3½" x 20 ⁽³⁾			M	P	5¼" x 18"			P
			5¼" x 14"	T	M	P	5¼" x 14"			M	P	5¼" x 16"			M	P	7" x 16"			P
	30LL + 15DL	24'	3½" x 14"	T	M	P	3½" x 14"			P	3½" x 16"			M	P	3½" x 18"			P	
			5¼" x 11¼"	T	M	P	3½" x 16"	T	M	P	5¼" x 14"			M	P	5¼" x 16"	T	M	P	
							5¼" x 14"	T	M	P	5¼" x 16"	T	M	P	7" x 14"			P		
		30'	3½" x 14"			P	3½" x 16"			M	P	3½" x 18"			M	P	3½" x 20 ⁽³⁾			P
			3½" x 16"	T	M	P	5¼" x 14"			M	P	5¼" x 16"	T	M	P	5¼" x 16"			P	
			5¼" x 11⅞"	T	M	P	5¼" x 16"	T	M	P	7" x 14"			P	5¼" x 18"			P		
		36'	3½" x 16"	T	M	P	3½" x 18 ⁽³⁾			M	P	3½" x 18 ⁽³⁾			P	5¼" x 18"			P	
			5¼" x 14"	T	M	P	5¼" x 14"			P	3½" x 20 ⁽³⁾			M		7" x 16"			P	
							5¼" x 16"	T	M	P	5¼" x 16"			M	P				P	
40LL + 15DL	24'	3½" x 14"			P	3½" x 16"			M	P	3½" x 18"			M	P	3½" x 18 ⁽³⁾			P	
		3½" x 16"	T	M	P	5¼" x 14"			M	P	5¼" x 16"	T	M	P	3½" x 20 ⁽³⁾			P		
		5¼" x 11⅞"	T	M	P	5¼" x 16"	T	M	P	7" x 14"			P	5¼" x 16"			P			
	30'	3½" x 16"	T	M	P	3½" x 18 ⁽³⁾			M	P	3½" x 20 ⁽³⁾			M		5¼" x 18"			P	
		5¼" x 14"	T	M	P	5¼" x 16"	T	M	P	5¼" x 16"			M	P	7" x 16"			P		
						7" x 14"			P									P		
	36'	3½" x 18 ⁽³⁾	T	M	P	3½" x 20 ⁽³⁾			M		5¼" x 18"			M	P	5¼" x 18 ⁽³⁾			P	
		5¼" x 14"	T	M	P	5¼" x 16"			M	P	7" x 16"			P	5¼" x 20 ⁽³⁾			P		
		5¼" x 16"	T	M	P	7" x 14"			P									P		

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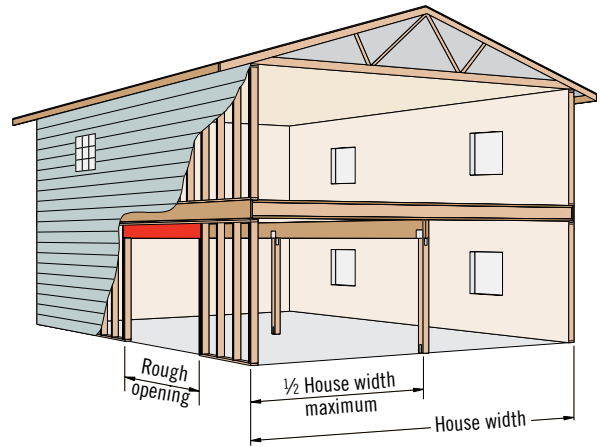
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SIZING TABLES

How to Use This Table

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

Also see **General Notes** on page 13.



Headers Supporting Floor and Roof

Load (PSF)		House Width	Rough Opening											
			8'			9'-3"			10'			12'		
Non-Snow Area 125%	Roof Load 20LL + 15DL Floor Load 40LL + 12DL	24'	1¾" x 11¼"	T	M	1¾" x 11⅞ ⁽³⁾	T	M	1¾" x 14 ⁽³⁾	T	M	3½" x 11⅞"	M	P
			3½" x 9¼"	T	M	1¾" x 14 ⁽³⁾	T	M	3½" x 9½"	T	M	3½" x 14"	T	M
						3½" x 9½"	T	M	3½" x 11¼"	T	M	5¼" x 11¼"	T	M
		30'	1¾" x 11⅞ ⁽³⁾	T	M	1¾" x 14 ⁽³⁾	T	M	3½" x 11¼"	T	M	3½" x 14"	T	M
			3½" x 9¼"	T	M	3½" x 9½"	T	M	5¼" x 9¼"	T	M	5¼" x 11¼"	T	M
						3½" x 11¼"	T	M	5¼" x 9½"	T	M	5¼" x 11⅞"	T	M
	Roof Load 20LL + 20DL Floor Load 40LL + 12DL	24'	1¾" x 14 ⁽³⁾	T	M	3½" x 11¼"	T	M	3½" x 11⅞"	T	M	3½" x 14 ⁽³⁾	T	M
			3½" x 9½"	T	M	5¼" x 9¼"	T	M	5¼" x 9½"	T	M	5¼" x 11¼"	T	M
			5¼" x 9¼"	T	M				5¼" x 11¼"	T	M			
		30'	1¾" x 11¼ ⁽³⁾	T	M	1¾" x 14 ⁽³⁾	T	M	1¾" x 14 ⁽³⁾	T	M	3½" x 11⅞"	M	P
			3½" x 9¼"	T	M	3½" x 9½"	T	M	3½" x 11¼"	T	M	3½" x 14"	T	M
						3½" x 11¼"	T	M	5¼" x 9¼"	T	M	5¼" x 11¼"	T	M
Snow Area 115%	Roof Load 25LL + 15DL Floor Load 40LL + 12DL	24'	1¾" x 11¼ ⁽³⁾	T	M	1¾" x 14 ⁽³⁾	T	M	1¾" x 14 ⁽³⁾	T	M	3½" x 11⅞"	M	P
			3½" x 9¼"	T	M	3½" x 9½"	T	M	3½" x 11¼"	T	M	3½" x 14"	T	M
						3½" x 11¼"	T	M	5¼" x 9¼"	T	M	5¼" x 11¼"	T	M
		30'	1¾" x 14 ⁽³⁾	T	M	3½" x 9½"	T	M	3½" x 11¼"	T	M	3½" x 14"	T	M
			3½" x 9¼"	T	M	3½" x 11¼"	T	M	5¼" x 9¼"	T	M	5¼" x 11¼"	T	M
						5¼" x 9¼"	T	M				5¼" x 11⅞"	T	M
		36'	1¾" x 14 ⁽³⁾	T	M	3½" x 11¼"	T	M	3½" x 11⅞"	T	M	3½" x 14 ⁽³⁾	T	M
			3½" x 9¼"	T	M	5¼" x 9¼"	T	M	5¼" x 9½"	T	M	3½" x 16 ⁽³⁾	T	M
			3½" x 11¼"	T	M				5¼" x 11¼"	T	M	5¼" x 11⅞"	T	M
	Roof Load 30LL + 15DL Floor Load 40LL + 12DL	24'	1¾" x 11⅞ ⁽³⁾	T	M	1¾" x 14 ⁽³⁾	T	M	3½" x 11¼"	T	M	3½" x 11⅞"	M	P
			1¾" x 14 ⁽³⁾	T	M	3½" x 9¼"	T	M	5¼" x 9¼"	T	M	3½" x 14"	T	M
			3½" x 9¼"	T	M	3½" x 11¼"	T	M	5¼" x 9½"	T	M	5¼" x 11¼"	T	M
		30'	1¾" x 14 ⁽³⁾	T	M	3½" x 11¼"	T	M	3½" x 11⅞"	T	M	3½" x 14"	T	M
			3½" x 9¼"	T	M	5¼" x 9¼"	T	M	5¼" x 9½"	T	M	5¼" x 11¼"	T	M
									5¼" x 11¼"	T	M			
		36'	3½" x 9¼"	T	M	3½" x 11⅞"	T	M	3½" x 11⅞"	T	M	3½" x 14 ⁽³⁾	T	M
			3½" x 11¼"	T	M	5¼" x 9¼"	T	M	3½" x 14"	T	M	3½" x 16 ⁽³⁾	T	M
			5¼" x 9¼"	T	M	5¼" x 11¼"	T	M	5¼" x 11¼"	T	M	5¼" x 11⅞"	T	M
	Roof Load 40LL + 15DL Floor Load 40LL + 12DL	24'	1¾" x 14 ⁽³⁾	T	M	3½" x 11¼"	T	M	3½" x 11⅞"	T	M	3½" x 14"	T	M
			3½" x 9¼"	T	M	5¼" x 9¼"	T	M	5¼" x 9½"	T	M	5¼" x 11¼"	T	M
									5¼" x 11¼"	T	M	5¼" x 11⅞"	T	M
		30'	3½" x 9¼"	T	M	3½" x 11⅞"	T	M	3½" x 11⅞"	T	M	3½" x 14 ⁽³⁾	T	M
			3½" x 11¼"	T	M	5¼" x 9¼"	T	M	3½" x 14"	T	M	3½" x 16 ⁽³⁾	T	M
			5¼" x 9¼"	T	M	5¼" x 11¼"	T	M	5¼" x 11¼"	T	M	5¼" x 11⅞"	T	M
		36'	3½" x 11¼"	T	M	3½" x 11⅞ ⁽³⁾	T	M	3½" x 14 ⁽³⁾	T	M	3½" x 16 ⁽³⁾	T	M
			5¼" x 9¼"	T	M	3½" x 14"	T	M	5¼" x 11¼"	T	M	5¼" x 14"	T	M

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SIZING TABLES

General Notes

- Table is based on:
 - Uniform loads.
 - More restrictive of simple or continuous span. Ratio of short span to long span should be greater than 0.4 to prevent uplift.
 - Roof truss framing with 24" soffits.
 - Exterior wall weights of 80 plf, interior 60 plf.
 - Deflection criteria of L/360 live load and L/240 total load at floor.
- Tables do not consider attic loads acting concurrently with roof or snow loads.

Also see **How to Use This Table** on page 12 and **General Assumptions** on page 5.

Bearing Requirements

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

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

Headers Supporting Floor and Roof *continued*

Roof Load (PSF)		House Width	Rough Opening								
			14'			16'-3"			18'-3"		
Non-Snow Area 125%	Roof Load 20LL + 15DL Floor Load 40LL + 12DL	24'	3½" x 14"	M	P	3½" x 16"	M	P	3½" x 18" ⁽³⁾	M	P
			3½" x 16"	T	M	5¼" x 14"	M	P	5¼" x 16"	M	P
			5¼" x 11⅞"	M	P	5¼" x 16"	T	M	7" x 14"		P
		30'	3½" x 14"		P	3½" x 18" ⁽³⁾	M	P	3½" x 20" ⁽³⁾	M	
			3½" x 16"	T	M	5¼" x 14"		P	5¼" x 16"	M	P
			5¼" x 14"	T	M	5¼" x 16"	T	M			
		36'	3½" x 16" ⁽³⁾	M	P	3½" x 18" ⁽³⁾	M	P	5¼" x 18" ⁽³⁾	M	P
			5¼" x 14"	T	M	5¼" x 16"	M	P	7" x 16"		P
						7" x 14"		P			
	Roof Load 20LL + 20DL Floor Load 40LL + 12DL	24'	3½" x 14"	M	P	3½" x 16" ⁽³⁾	M	P	3½" x 18" ⁽³⁾	M	P
			3½" x 16"	T	M	5¼" x 14"	M	P	5¼" x 16"	M	P
			5¼" x 11⅞"	M	P	5¼" x 16"	T	M	7" x 14"		P
		30'	3½" x 16" ⁽³⁾	T	M	3½" x 18" ⁽³⁾	M	P	3½" x 20" ⁽³⁾	M	
			5¼" x 14"	T	M	5¼" x 16"	T	M	5¼" x 18"	M	P
						7" x 14"		P	7" x 16"		P
		36'	3½" x 16" ⁽³⁾	M	P	3½" x 18" ⁽³⁾	M	P	5¼" x 18" ⁽³⁾	M	P
			5¼" x 14"	M	P	5¼" x 16"	M	P	7" x 16"		P
			5¼" x 16"	T	M	7" x 14"		P			
Snow Area 115%	Roof Load 25LL + 15DL Floor Load 40LL + 12DL	24'	3½" x 14"	M	P	3½" x 16" ⁽³⁾	M	P	3½" x 18" ⁽³⁾	M	P
			3½" x 16"	T	M	5¼" x 14"	M	P	5¼" x 16"	M	P
			5¼" x 11⅞"	M	P	5¼" x 16"	T	M	7" x 14"		P
		30'	3½" x 16" ⁽³⁾	T	M	3½" x 18" ⁽³⁾	M	P	3½" x 20" ⁽³⁾	M	
			5¼" x 14"	T	M	5¼" x 16"	T	M	5¼" x 18"	M	P
						7" x 14"		P	7" x 16"		P
		36'	3½" x 16" ⁽³⁾	M	P	3½" x 18" ⁽³⁾		P	5¼" x 18" ⁽³⁾	M	P
			5¼" x 14"	M	P	3½" x 20" ⁽³⁾	M		7" x 16"		P
			5¼" x 16"	T	M	5¼" x 16"	M	P			
	Roof Load 30LL + 15DL Floor Load 40LL + 12DL	24'	3½" x 14"	M	P	3½" x 16" ⁽³⁾		P	3½" x 18" ⁽³⁾		P
			3½" x 16"	T	M	3½" x 18" ⁽³⁾	M	P	3½" x 20" ⁽³⁾	M	
			5¼" x 11⅞"		P	5¼" x 14"	M	P	5¼" x 16"	M	P
		30'	3½" x 16" ⁽³⁾	M	P	3½" x 18" ⁽³⁾	M	P	5¼" x 18" ⁽³⁾	M	P
			5¼" x 14"	T	M	5¼" x 16"	M	P	7" x 16"		P
						7" x 14"		P			
		36'	3½" x 16" ⁽³⁾		P	5¼" x 16" ⁽³⁾	M	P	5¼" x 18" ⁽³⁾	M	P
			3½" x 18" ⁽³⁾	M	P	7" x 16"		P	7" x 16"		P
			5¼" x 14"	M	P						
	Roof Load 40LL + 15DL Floor Load 40LL + 12DL	24'	3½" x 16" ⁽³⁾	T	M	3½" x 18" ⁽³⁾	M	P	3½" x 20" ⁽³⁾	M	
			5¼" x 14"	T	M	5¼" x 16"	T	M	5¼" x 18"	M	P
						7" x 14"		P	7" x 16"		P
		30'	3½" x 16" ⁽³⁾		P	5¼" x 16" ⁽³⁾	M	P	5¼" x 18" ⁽³⁾	M	P
			3½" x 18" ⁽³⁾	M	P	7" x 14"		P	7" x 16"		P
			5¼" x 14"	M	P						
		36'	5¼" x 16" ⁽³⁾	T	M	5¼" x 18" ⁽³⁾	M	P	5¼" x 20" ⁽³⁾	M	
			7" x 14"		P	7" x 16"		P	7" x 18" ⁽³⁾		P

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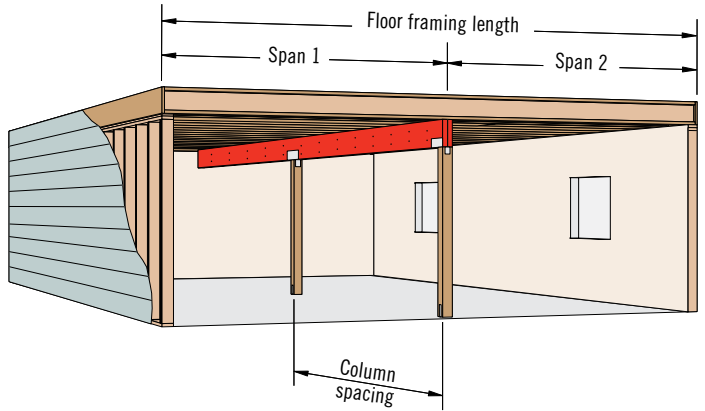
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SIZING TABLES

How to Use This Table

1. Determine appropriate **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 15.



Floor Beams

Floor Load (PSF)	Floor Framing Length	Column Spacing											
		8'			10'			12'			14'		
40LL + 12DL	24'	3½" x 9¼"	T	M	P	3½" x 9½"	T	M	P	3½" x 11¼"	T	M	P
						3½" x 11¼"	T	M	P	3½" x 14"	T	M	P
						5¼" x 9¼"	T	M	P	5¼" x 9½"			
	28'	3½" x 9¼"	T	M	P	3½" x 11¼"	T	M	P	3½" x 11½"	T	M	P
						5¼" x 9¼"	T	M	P	3½" x 14"	T	M	P
										5¼" x 11¼"	T	M	P
	30'	3½" x 9¼"	T	M	P	3½" x 11¼"	T	M	P	3½" x 11½"	T	M	P
						5¼" x 9¼"	T	M	P	3½" x 14"	T	M	P
						5¼" x 9½"	T	M	P	3½" x 16"	T	M	P
	32'	3½" x 9¼"	T	M	P	3½" x 11¼"	T	M	P	3½" x 14"	T	M	P
						5¼" x 9¼"	T	M	P	3½" x 16"	T	M	P
										5¼" x 11½"	T	M	P
	34'	3½" x 9¼"	T	M	P	3½" x 11¼"	T	M	P	3½" x 14"	T	M	P
						5¼" x 9¼"	T	M	P	3½" x 16"	T	M	P
										5¼" x 14"	T	M	P
	36'	3½" x 9¼"	T	M	P	3½" x 11½"	T	M	P	3½" x 14"	T	M	P
						5¼" x 9¼"	T	M	P	3½" x 16"	T	M	P
						5¼" x 11¼"	T	M	P	3½" x 18"	T	M	P
	40'	3½" x 9¼"	T	M	P	3½" x 11½"	T	M	P	3½" x 14"	T	M	P
						5¼" x 9½"	T	M	P	3½" x 16"	T	M	P
						5¼" x 11¼"	T	M	P	3½" x 18"	T	M	P
40LL + 20DL	24'	3½" x 9¼"	T	M	P	3½" x 9½"	T	M	P	3½" x 11½"	T	M	P
						3½" x 11¼"	T	M	P	3½" x 14"	T	M	P
						5¼" x 9¼"	T	M	P	5¼" x 9½"	T	M	P
	28'	3½" x 9¼"	T	M	P	3½" x 11¼"	T	M	P	3½" x 11½"	T	M	P
						5¼" x 9¼"	T	M	P	3½" x 14"	T	M	P
										5¼" x 11½"	T	M	P
	30'	3½" x 9¼"	T	M	P	3½" x 11¼"	T	M	P	3½" x 14"	T	M	P
						5¼" x 9¼"	T	M	P	3½" x 16"	T	M	P
						5¼" x 9½"	T	M	P	3½" x 18"	T	M	P
	32'	3½" x 9¼"	T	M	P	3½" x 11½"	T	M	P	3½" x 14"	T	M	P
						5¼" x 9¼"	T	M	P	3½" x 16"	T	M	P
						5¼" x 11¼"	T	M	P	3½" x 18"	T	M	P
	34'	3½" x 9¼"	T	M	P	3½" x 11½"	T	M	P	3½" x 14"	T	M	P
						5¼" x 9¼"	T	M	P	3½" x 16"	T	M	P
						5¼" x 11¼"	T	M	P	3½" x 18"	T	M	P
	36'	3½" x 9¼"	T	M	P	3½" x 11½"	T	M	P	3½" x 14"	T	M	P
						3½" x 11¼"	T	M	P	3½" x 16"	T	M	P
						5¼" x 9¼"	T	M	P	3½" x 18"	T	M	P
	40'	3½" x 9½"	T	M	P	3½" x 11½"	T	M	P	3½" x 14"	T	M	P
						3½" x 11¼"	T	M	P	3½" x 16"	T	M	P
						5¼" x 9½"	T	M	P	3½" x 18"	T	M	P

T 1.55E TimberStrand® LSL

M 1.9E Microllam® LVL

P 2.0E Parallam® PSL

SIZING TABLES

General Notes

- Table is based on:
 - Uniform loads.
 - More restrictive of simple or continuous beam span. Ratio of short span to long span should be greater than 0.4 to prevent uplift.
 - Deflection criteria of L/360 live load and L/240 total load.

Also see *How to Use This Table* on page 14 and *General Assumptions* on page 5.

Bearing Requirements

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

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

Floor Beams *continued*

Floor Load (PSF)	Floor Framing Length	Column Spacing											
		18'			20'			22'			24'		
40LL + 12DL	24'	3½" x 18"	M	P	3½" x 18"		P	3½" x 20 ⁽³⁾	M		5¼" x 20"	M	
		5¼" x 14"		P	3½" x 20"	M		5¼" x 18"	M	P	7" x 18"		P
		5¼" x 16"	T	M	5¼" x 16"	M	P	7" x 16"		P			
	28'	3½" x 18"	M	P	3½" x 20 ⁽³⁾	M		5¼" x 18"	M	P	5¼" x 20"	M	
		5¼" x 16"	T	M	5¼" x 16"	M	P	7" x 16"		P	7" x 18"		P
		7" x 14"		P	5¼" x 18"	M	P						
	30'	3½" x 18 ⁽³⁾	M	P	3½" x 20 ⁽³⁾	M		5¼" x 18"	M	P	5¼" x 20"	M	
		5¼" x 16"	M	P	5¼" x 18"	M	P	7" x 16"		P	7" x 18"		P
		7" x 14"		P	7" x 16"		P						
	32'	3½" x 18 ⁽³⁾		P	3½" x 20 ⁽³⁾	M		5¼" x 18"		P	5¼" x 20"	M	
		3½" x 20 ⁽³⁾	M		5¼" x 18"	M	P	5¼" x 20"	M		7" x 18"		P
		5¼" x 16"	M	P	7" x 16"		P						
	34'	3½" x 18 ⁽³⁾		P	5¼" x 18"	M	P	5¼" x 20"	M		5¼" x 20"	M	
		3½" x 20 ⁽³⁾	M		7" x 16"		P	7" x 18"		P	7" x 18"		P
		5¼" x 16"	M	P									
	36'	3½" x 18 ⁽³⁾		P	5¼" x 18"	M	P	5¼" x 20"	M		7" x 18"		P
		3½" x 20 ⁽³⁾	M		7" x 16"		P	7" x 18"		P			
		5¼" x 16"	M	P									
	40'	3½" x 20 ⁽³⁾	M		5¼" x 18"	M	P	5¼" x 20 ⁽³⁾	M				
		5¼" x 16"		P	7" x 16"		P	7" x 18"		P			
		5¼" x 18"	M	P									
40LL + 20DL	24'	3½" x 18 ⁽³⁾	M	P	3½" x 20 ⁽³⁾	M		5¼" x 18"	M	P	5¼" x 20"	M	
		5¼" x 16"	T	M	5¼" x 16"	M	P	7" x 16"		P	7" x 18"		P
		7" x 14"		P									
	28'	3½" x 18 ⁽³⁾		P	5¼" x 18"	M	P	5¼" x 18"		P	5¼" x 20"	M	
		3½" x 20 ⁽³⁾	M		7" x 16"		P	5¼" x 20"	M		7" x 18"		P
		5¼" x 16"	M	P									
	30'	3½" x 18 ⁽³⁾		P	5¼" x 18"	M	P	5¼" x 20"	M		7" x 18"		P
		3½" x 20 ⁽³⁾	M		7" x 16"		P	7" x 18"		P			
		5¼" x 16"	M	P									
	32'	3½" x 20 ⁽³⁾	M		5¼" x 18"	M	P	5¼" x 20 ⁽³⁾	M				
		5¼" x 16"	M	P	7" x 16"		P	7" x 18"		P			
		7" x 14"		P									
	34'	5¼" x 16"		P	5¼" x 18"	M	P	5¼" x 20 ⁽³⁾	M				
		5¼" x 18"	M	P	7" x 16"		P	7" x 18"		P			
	36'	5¼" x 16"		P	5¼" x 18 ⁽³⁾		P	7" x 18"		P			
		5¼" x 18"	M	P	5¼" x 20 ⁽³⁾	M							
					7" x 16"		P						
	40'	5¼" x 18 ⁽³⁾	M	P	5¼" x 20 ⁽³⁾	M		7" x 18"		P			
		7" x 16"		P	7" x 18"		P						

T 1.55E TimberStrand® LSL

M 1.9E Microllam® LVL

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FLOOR LOAD TABLES

How to Use This Table

1. Calculate total and live load (neglect beam weight) on the beam or header in pounds per linear foot (plf).
2. Select appropriate **Span** (center-to-center of bearing).
3. Scan horizontally to find the proper width, and a depth with a capacity that exceeds actual total and live loads.
4. Review bearing length requirements to ensure adequacy.

Also see **General Notes** on page 17.

TimberStrand® LSL: Floor—100% (PLF)

Span	Condition	1.3E Grade						1.55E Grade					
		3½" Width						5½" Plank Orientation	1¼" Width				
		4¾"	5½"	7¼"	8⅝"	9¼"	11¼"	3½"	9¼"	9½"	11¼"	11⅞"	14"
3'	Total Load	1,538	2,382	4,037	5,624	6,428	7,128	1,210	3,024	3,166	4,192	4,192	4,192
	Live Load L/360	1,420	*	*	*	*	*	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.8	2.5/6.4	3.6/8.9	4.1/10.1	4.5/11.3	1.5/3.5	3.3/8.2	3.4/8.5	4.5/11.3	4.5/11.3	4.5/11.3
4'	Total Load	863	1,337	2,268	3,160	3,611	5,249	814	1,929	2,006	2,597	2,836	3,142
	Live Load L/360	652	1,215	*	*	*	*	547	*	*	*	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.9/4.8	2.7/6.7	3.0/7.6	4.4/11.1	1.5/3.5	2.8/7.0	2.9/7.2	3.8/9.3	4.1/10.2	4.5/11.3
5'	Total Load	517	854	1,449	2,019	2,308	3,355	426	1,416	1,467	1,853	2,004	2,512
	Live Load L/360	348	662	1,399	*	*	*	288	*	*	*	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.8	2.1/5.3	2.4/6.1	3.5/8.8	1.5/3.5	2.6/6.4	2.6/6.6	3.4/8.4	3.6/9.0	4.5/11.3
6'	Total Load	305	590	1,004	1,399	1,599	2,326	248	1,095	1,152	1,440	1,549	1,952
	Live Load L/360	206	397	857	1,367	*	*	169	978	1,048	*	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.4	2.0/5.1	2.9/7.4	1.5/3.5	2.4/5.9	2.5/6.2	3.1/7.8	3.3/8.3	4.2/10.5
7'	Total Load	172	337	735	1,026	1,172	1,706	138	803	845	1,168	1,262	1,570
	Live Load L/360	132	256	560	904	1,092	*	107	651	699	1,089	1,250	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.8	1.7/4.3	2.5/6.3	1.5/3.5	2.1/5.1	2.1/5.3	3.0/7.4	3.2/7.9	3.9/9.9
8'	Total Load	100	198	443	783	895	1,303	79	613	646	893	990	1,313
	Live Load L/360	89	174	384	626	759	1,290	72	453	487	769	886	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.8	2.2/5.5	1.5/3.5	1.8/4.5	1.9/4.7	2.6/6.5	2.8/7.1	3.8/9.4
9'-6"	Total Load		98	225	553	632	921		416	448	631	700	960
	Live Load L/360		*	*	386	470	811		280	302	483	560	870
	Min. End/Int. Bearing (in.)		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.9/4.7		1.5/3.6	1.5/3.9	2.2/5.5	2.4/6.0	3.3/8.2
10'	Total Load		79	183	492	569	830		359	387	569	631	865
	Live Load L/360		*	*	334	407	704		242	261	420	487	760
	Min. End/Int. Bearing (in.)		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.4		1.5/3.5	1.5/3.5	2.1/5.2	2.3/5.7	3.1/7.8
12'	Total Load			86	288	353	573		211	228	372	434	599
	Live Load L/360			*	198	241	423		144	155	252	293	464
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.7		1.5/3.5	1.5/3.5	1.7/4.1	1.9/4.7	2.6/6.5
14'	Total Load			181	222	397			133	144	237	278	438
	Live Load L/360			126	154	272			92	99	162	189	302
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.2/5.6
16'-6"	Total Load			108	134	242			80	87	145	170	277
	Live Load L/360			78	95	169			57	61	101	118	189
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2
18'-6"	Total Load			75	93	170			56	60	102	120	197
	Live Load L/360			56	68	121			40	44	72	84	136
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
20'	Total Load			57	72	133					80	94	156
	Live Load L/360			44	54	96					57	67	109
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5					1.5/3.5	1.5/3.5	1.5/3.5
24'	Total Load					73						52	88
	Live Load L/360					56						39	64
	Min. End/Int. Bearing (in.)					1.5/3.5						1.5/3.5	1.5/3.5
28'	Total Load												53
	Live Load L/360												40
	Min. End/Int. Bearing (in.)												1.5/3.5

* Indicates **Total Load** value controls.

FLOOR LOAD TABLES

General Notes

- Table is based on:
 - Uniform loads (beam weight considered).
 - More restrictive of simple or continuous span.
 - Deflection criteria of L/240 total load (TL) and L/360 live load (LL).
- For live load deflection limits of L/240 or L/480, multiply **Live Load L/360** values by 1.5 or 0.75, respectively. The resulting live load may not exceed the total load shown.

Also see *How to Use this Table* on page 16 and *General Assumptions* on page 5.

TimberStrand® LSL: Floor—100% (PLF) *continued*

Span	Condition	1.55E Grade											
		3½" Width						5¼" Width (2- or 3-ply)					
		9¼"	9½"	11¼"	11⅝"	14"	16"	9¼"	9½"	11¼"	11⅝"	14"	16"
3'	Total Load	6,049	6,332	8,382	8,382	8,382	8,382	9,074	9,499	12,573	12,573	12,573	12,573
	Live Load L/360	*	*	*	*	*	*	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	3.3/8.2	3.4/8.5	4.5/11.3	4.5/11.3	4.5/11.3	4.5/11.3	3.3/8.2	3.4/8.5	4.5/11.3	4.5/11.3	4.5/11.3	4.5/11.3
4'	Total Load	3,859	4,012	5,195	5,673	6,282	6,282	5,788	6,018	7,793	8,510	9,423	9,423
	Live Load L/360	*	*	*	*	*	*	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	2.8/7.0	2.9/7.2	3.8/9.3	4.1/10.2	4.5/11.3	4.5/11.3	2.8/7.0	2.9/7.2	3.8/9.3	4.1/10.2	4.5/11.3	4.5/11.3
5'	Total Load	2,832	2,934	3,707	4,009	5,022	5,022	4,248	4,401	5,561	6,014	7,533	7,533
	Live Load L/360	*	*	*	*	*	*	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	2.6/6.4	2.6/6.6	3.4/8.4	3.6/9.0	4.5/11.3	4.5/11.3	2.6/6.4	2.6/6.6	3.4/8.4	3.6/9.0	4.5/11.3	4.5/11.3
6'	Total Load	2,190	2,305	2,881	3,098	3,904	4,182	3,286	3,458	4,321	4,648	5,857	6,273
	Live Load L/360	1,957	2,097	*	*	*	*	2,936	3,146	*	*	*	*
	Min. End/Int. Bearing (in.)	2.4/5.9	2.5/6.2	3.1/7.8	3.3/8.3	4.2/10.5	4.5/11.3	2.4/5.9	2.5/6.2	3.1/7.8	3.3/8.3	4.2/10.5	4.5/11.3
7'	Total Load	1,606	1,691	2,336	2,524	3,141	3,582	2,410	2,536	3,505	3,786	4,711	5,373
	Live Load L/360	1,302	1,399	2,179	2,501	*	*	1,954	2,098	3,269	3,752	*	*
	Min. End/Int. Bearing (in.)	2.1/5.1	2.1/5.3	3.0/7.4	3.2/7.9	3.9/9.9	4.5/11.3	2.1/5.1	2.1/5.3	3.0/7.4	3.2/7.9	3.9/9.9	4.5/11.3
8'	Total Load	1,227	1,292	1,786	1,981	2,626	3,132	1,841	1,938	2,679	2,971	3,939	4,698
	Live Load L/360	906	974	1,538	1,773	*	*	1,359	1,462	2,307	2,660	*	*
	Min. End/Int. Bearing (in.)	1.8/4.5	1.9/4.7	2.6/6.5	2.8/7.1	3.8/9.4	4.5/11.3	1.8/4.5	1.9/4.7	2.6/6.5	2.8/7.1	3.8/9.4	4.5/11.3
9'-6"	Total Load	832	897	1,263	1,401	1,920	2,480	1,248	1,346	1,894	2,101	2,880	3,720
	Live Load L/360	561	605	967	1,121	1,740	2,456	842	907	1,451	1,681	2,610	3,684
	Min. End/Int. Bearing (in.)	1.5/3.6	1.5/3.9	2.2/5.5	2.4/6.0	3.3/8.2	4.3/10.6	1.5/3.6	1.5/3.9	2.2/5.5	2.4/6.0	3.3/8.2	4.3/10.6
10'	Total Load	718	775	1,138	1,263	1,731	2,236	1,077	1,162	1,708	1,894	2,597	3,355
	Live Load L/360	485	523	840	974	1,520	2,154	728	785	1,260	1,462	2,280	3,232
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.1/5.2	2.3/5.7	3.1/7.8	4.1/10.1	1.5/3.5	1.5/3.5	2.1/5.2	2.3/5.7	3.1/7.8	4.1/10.1
12'	Total Load	422	456	744	868	1,198	1,547	633	685	1,116	1,302	1,797	2,321
	Live Load L/360	288	311	504	587	928	1,334	432	467	756	881	1,393	2,001
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.7/4.1	1.9/4.7	2.6/6.5	3.4/8.4	1.5/3.5	1.5/3.5	1.7/4.1	1.9/4.7	2.6/6.5	3.4/8.4
14'	Total Load	266	288	475	556	876	1,132	400	433	713	834	1,314	1,698
	Live Load L/360	184	199	325	379	605	877	276	299	487	569	907	1,316
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.2/5.6	2.9/7.2	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.2/5.6	2.9/7.2
16'-6"	Total Load	161	174	291	341	554	810	241	262	436	512	831	1,215
	Live Load L/360	114	123	202	236	379	555	171	185	303	354	569	832
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	2.5/6.1	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	2.5/6.1
18'-6"	Total Load	112	121	205	241	395	584	168	182	307	362	592	876
	Live Load L/360	81	88	144	169	273	401	122	132	217	254	410	601
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.0	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.0
20'	Total Load	87	94	160	189	312	463	130	142	240	284	468	695
	Live Load L/360	64	70	115	135	218	320	97	105	172	202	327	481
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.3	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.3
24'	Total Load		50	88	105	177	266	69	76	133	158	265	400
	Live Load L/360		40	67	79	128	189	56	61	101	118	192	284
	Min. End/Int. Bearing (in.)		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
28'	Total Load			51	62	107	163			77	93	160	245
	Live Load L/360			42	50	81	120			64	75	122	181
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5

* Indicates **Total Load** value controls.

FLOOR LOAD TABLES

How to Use This Table

1. Calculate total and live load (neglect beam weight) on the beam or header in pounds per linear foot (plf).
2. Select appropriate **Span** (center-to-center of bearing).
3. Scan horizontally to find the proper width, and a depth with a capacity that exceeds actual total and live loads.
4. Review bearing length requirements to ensure adequacy.

Also see **General Notes** on page 19.

1.9E Microllam® LVL: Floor—100% (PLF)

Span	Condition	1¾" Width							3½" Width (2-ply)					
		5½"	7¼"	9¼"	9½"	11¼"	11⅝"	14"	5½"	7¼"	9¼"	9½"	11¼"	11⅝"
6'	Total Load	432	762	1,027	1,062	1,324	1,424	1,794	864	1,525	2,055	2,125	2,648	2,848
	Live Load L/360	290	626	*	*	*	*	*	580	1,253	*	*	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.8/4.4	2.4/5.9	2.4/6.1	3.0/7.6	3.3/8.2	4.1/10.3	1.5/3.5	1.8/4.4	2.4/5.9	2.4/6.1	3.0/7.6	3.3/8.2
8'	Total Load	146	326	695	731	915	978	1,207	292	652	1,391	1,462	1,830	1,956
	Live Load L/360	126	280	555	597	*	*	*	253	561	1,110	1,195	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.1/5.3	2.2/5.6	2.8/7.0	3.0/7.5	3.7/9.3	1.5/3.5	1.5/3.5	2.1/5.3	2.2/5.6	2.8/7.0	3.0/7.5
9'-6"	Total Load	73	166	491	517	709	784	968	146	332	983	1,034	1,418	1,570
	Live Load L/360	*	*	344	370	592	687	*	*	*	688	741	1,185	1,374
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.6/6.5	2.9/7.2	3.5/8.8	1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.6/6.5	2.9/7.2
10'	Total Load	59	135	441	466	639	707	908	118	270	883	932	1,279	1,415
	Live Load L/360	*	*	297	321	514	597	*	*	*	595	642	1,029	1,195
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.7/4.3	1.8/4.5	2.5/6.1	2.7/6.8	3.5/8.7	1.5/3.5	1.5/3.5	1.7/4.3	1.8/4.5	2.5/6.1	2.7/6.8
12'	Total Load		64	260	281	442	489	666	54	128	521	563	885	979
	Live Load L/360		*	176	190	309	360	569	*	*	353	381	618	720
	Min. End/Int. Bearing (in.)		1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.1	2.3/5.7	3.1/7.7	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.1	2.3/5.7
14'	Total Load			164	178	293	342	487		66	329	357	586	685
	Live Load L/360			113	122	199	232	370		*	226	244	398	465
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.6/4.0	1.9/4.7	2.6/6.6		1.5/3.5	1.5/3.5	1.5/3.5	1.6/4.0	1.9/4.7
16'-6"	Total Load			100	108	180	211	342			200	217	360	422
	Live Load L/360			69	75	123	145	232			139	151	247	290
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.5			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
18'-6"	Total Load			70	76	127	149	244			140	152	254	299
	Live Load L/360			49	54	88	103	167			99	108	177	207
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.4			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
20'	Total Load			54	59	100	118	193			109	119	200	236
	Live Load L/360			39	42	70	82	133			79	85	141	165
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.8			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
22'	Total Load					74	87	144			80	87	148	175
	Live Load L/360					53	62	101			59	64	106	125
	Min. End/Int. Bearing (in.)					1.5/3.5	1.5/3.5	1.5/3.5			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
24'	Total Load					56	66	110			60	65	112	133
	Live Load L/360					41	48	78			46	50	82	96
	Min. End/Int. Bearing (in.)					1.5/3.5	1.5/3.5	1.5/3.5			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
26'	Total Load						51	86					86	102
	Live Load L/360						38	62					65	76
	Min. End/Int. Bearing (in.)						1.5/3.5	1.5/3.5					1.5/3.5	1.5/3.5
28'	Total Load							67					67	80
	Live Load L/360							49					52	61
	Min. End/Int. Bearing (in.)							1.5/3.5					1.5/3.5	1.5/3.5
30'	Total Load							54					52	62
	Live Load L/360							40					42	50
	Min. End/Int. Bearing (in.)							1.5/3.5					1.5/3.5	1.5/3.5

* Indicates **Total Load** value controls.

FLOOR LOAD TABLES

General Notes

- Table is based on:
 - Uniform loads (beam weight considered).
 - More restrictive of simple or continuous span.
 - Deflection criteria of L/240 total load (TL) and L/360 live load (LL).
- For live load deflection limits of L/240 or L/480, multiply **Live Load L/360** values by 1.5 or 0.75, respectively. The resulting live load may not exceed the total load shown.

Also see **How to Use This Table** on page 18 and **General Assumptions** on page 5.

1.9E Microllam® LVL: Floor—100% (PLF) *continued*

Span	Condition	3½" Width (2-ply)				5¼" Width (3-ply)									
		14"	16"	18"	20"	5½"	7¼"	9¼"	9½"	11¼"	11⅝"	14"	16"	18"	20"
6'	Total Load	3,589	3,917	3,917	3,917	1,297	2,287	3,082	3,188	3,972	4,272	5,384	5,875	5,875	5,875
	Live Load L/360	*	*	*	*	870	1,879	*	*	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	4.1/10.3	4.5/11.3	4.5/11.3	4.5/11.3	1.5/3.5	1.8/4.4	2.4/5.9	2.4/6.1	3.0/7.6	3.3/8.2	4.1/10.3	4.5/11.3	4.5/11.3	4.5/11.3
8'	Total Load	2,414	2,885	2,932	2,932	438	978	2,086	2,193	2,745	2,935	3,621	4,328	4,399	4,399
	Live Load L/360	*	*	*	*	380	842	1,666	1,792	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	3.7/9.3	4.4/11.1	4.5/11.3	4.5/11.3	1.5/3.5	1.5/3.5	2.1/5.3	2.2/5.6	2.8/7.0	3.0/7.5	3.7/9.3	4.4/11.1	4.5/11.3	4.5/11.3
9'-6"	Total Load	1,937	2,294	2,466	2,466	219	498	1,475	1,551	2,128	2,354	2,905	3,441	3,699	3,699
	Live Load L/360	*	*	*	*	*	*	1,032	1,112	1,778	2,061	*	*	*	*
	Min. End/Int. Bearing (in.)	3.5/8.8	4.2/10.5	4.5/11.3	4.5/11.3	1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.6/6.5	2.9/7.2	3.5/8.8	4.2/10.5	4.5/11.3	4.5/11.3
10'	Total Load	1,817	2,147	2,342	2,342	177	406	1,325	1,398	1,919	2,123	2,725	3,221	3,513	3,513
	Live Load L/360	*	*	*	*	*	*	893	963	1,544	1,792	*	*	*	*
	Min. End/Int. Bearing (in.)	3.5/8.7	4.1/10.3	4.5/11.3	4.5/11.3	1.5/3.5	1.5/3.5	1.7/4.3	1.8/4.5	2.5/6.1	2.7/6.8	3.5/8.7	4.1/10.3	4.5/11.2	4.5/11.2
12'	Total Load	1,333	1,709	1,948	1,948	82	193	781	844	1,327	1,469	2,000	2,563	2,922	2,922
	Live Load L/360	1,138	1,635	*	*	*	*	530	572	927	1,080	1,707	2,453	*	*
	Min. End/Int. Bearing (in.)	3.1/7.7	3.9/9.9	4.5/11.3	4.5/11.3	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.1	2.3/5.7	3.1/7.7	3.9/9.9	4.5/11.2	4.5/11.2
14'	Total Load	975	1,253	1,563	1,667		100	494	535	879	1,028	1,463	1,880	2,345	2,500
	Live Load L/360	741	1,075	1,483	*		*	339	366	597	697	1,112	1,613	2,225	*
	Min. End/Int. Bearing (in.)	2.6/6.6	3.4/8.5	4.2/10.5	4.5/11.3		1.5/3.5	1.5/3.5	1.5/3.5	1.6/4.0	1.9/4.7	2.6/6.6	3.4/8.5	4.2/10.5	4.5/11.2
16'-6"	Total Load	684	897	1,120	1,365			300	326	540	634	1,026	1,346	1,680	2,048
	Live Load L/360	465	680	945	1,263			209	227	371	435	698	1,020	1,418	1,895
	Min. End/Int. Bearing (in.)	2.2/5.5	2.9/7.2	3.6/8.9	4.4/10.9			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.5	2.9/7.2	3.6/8.9	4.4/10.9
18'-6"	Total Load	488	710	887	1,082			210	228	382	449	733	1,066	1,331	1,623
	Live Load L/360	335	491	686	922			149	162	266	311	502	737	1,030	1,383
	Min. End/Int. Bearing (in.)	1.8/4.4	2.6/6.4	3.2/8.0	3.9/9.7			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.4	2.6/6.4	3.2/8.0	3.9/9.7
20'	Total Load	387	573	756	922			164	178	300	354	580	860	1,134	1,384
	Live Load L/360	267	393	550	741			119	128	212	248	401	590	826	1,112
	Min. End/Int. Bearing (in.)	1.5/3.8	2.2/5.6	3.0/7.4	3.6/9.0			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.8	2.2/5.6	3.0/7.4	3.6/9.0
22'	Total Load	289	432	611	759			120	131	223	263	434	648	916	1,138
	Live Load L/360	202	298	419	566			89	97	160	187	304	448	629	850
	Min. End/Int. Bearing (in.)	1.5/3.5	1.9/4.7	2.6/6.6	3.3/8.2			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.9/4.7	2.6/6.6	3.3/8.2
24'	Total Load	221	332	471	634			89	98	168	199	332	498	707	951
	Live Load L/360	157	232	326	442			69	75	123	145	235	348	490	663
	Min. End/Int. Bearing (in.)	1.5/3.5	1.6/4.0	2.2/5.6	3.0/7.5			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.6/4.0	2.2/5.6	3.0/7.5
26'	Total Load	172	259	370	506			67	74	129	153	258	389	555	760
	Live Load L/360	124	183	259	351			54	59	97	114	186	275	388	527
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.9/4.8	2.6/6.5			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.9/4.8	2.6/6.5
28'	Total Load	135	205	294	405			51	56	100	120	203	308	442	607
	Live Load L/360	99	148	208	283			43	47	78	92	149	222	313	425
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.7/4.2	2.3/5.7			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	2.3/5.7
30'	Total Load	108	164	237	327					78	94	162	247	356	491
	Live Load L/360	81	120	170	232					63	75	122	181	256	348
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.7	2.0/5.0					1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.7	2.0/5.0

* Indicates **Total Load** value controls.

FLOOR LOAD TABLES

How to Use This Table

1. Calculate total and live load (neglect beam weight) on the beam or header in pounds per linear foot (plf).
2. Select appropriate **Span** (center-to-center of bearing).
3. Scan horizontally to find the proper width, and a depth with a capacity that exceeds actual total and live loads.
4. Review bearing length requirements to ensure adequacy.

Also see **General Notes** on page 21.

2.OE Parallam® PSL: Floor—100% (PLF)

Span	Condition	3½" Width							5¼" Width						
		9¼"	9½"	11¼"	11½"	14"	16"	18"	9¼"	9½"	11¼"	11½"	14"	16"	18"
8'	Total Load	1,469	1,517	1,861	1,990	2,456	2,933	2,933	2,204	2,275	2,792	2,985	3,683	4,400	4,400
	Live Load L/360	1,169	1,257	*	*	*	*	*	1,753	1,886	*	*	*	*	*
	Min. End/Int. Bearing (in.)	2.3/5.6	2.3/5.8	2.9/7.1	3.1/7.6	3.8/9.4	4.5/11.3	4.5/11.3	2.3/5.6	2.3/5.8	2.9/7.1	3.1/7.6	3.8/9.4	4.5/11.3	4.5/11.3
9'-6"	Total Load	1,076	1,147	1,510	1,611	1,970	2,333	2,467	1,614	1,720	2,265	2,416	2,955	3,500	3,700
	Live Load L/360	724	780	1,248	1,446	*	*	*	1,086	1,171	1,872	2,170	*	*	*
	Min. End/Int. Bearing (in.)	2.0/4.9	2.1/5.2	2.8/6.9	2.9/7.3	3.6/9.0	4.3/10.6	4.5/11.3	2.0/4.9	2.1/5.2	2.8/6.9	2.9/7.3	3.6/9.0	4.3/10.6	4.5/11.3
10'	Total Load	930	1,003	1,420	1,514	1,848	2,184	2,342	1,395	1,505	2,130	2,271	2,772	3,276	3,514
	Live Load L/360	626	675	1,084	1,257	*	*	*	940	1,013	1,626	1,886	*	*	*
	Min. End/Int. Bearing (in.)	1.8/4.5	1.9/4.8	2.7/6.8	2.9/7.3	3.5/8.9	4.2/10.5	4.5/11.3	1.8/4.5	1.9/4.8	2.7/6.8	2.9/7.3	3.5/8.9	4.2/10.5	4.5/11.3
12'	Total Load	548	592	964	1,092	1,480	1,738	1,949	822	888	1,446	1,639	2,220	2,607	2,923
	Live Load L/360	372	401	651	758	1,198	1,721	*	558	602	976	1,137	1,797	2,582	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.2/5.6	2.5/6.3	3.4/8.5	4.0/10.0	4.5/11.3	1.5/3.5	1.5/3.5	2.2/5.6	2.5/6.3	3.4/8.5	4.0/10.0	4.5/11.3
14'	Total Load	347	375	616	721	1,093	1,409	1,660	520	563	925	1,082	1,639	2,113	2,490
	Live Load L/360	238	257	419	489	780	1,132	1,561	357	386	629	734	1,171	1,698	2,342
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.7/4.2	2.0/4.9	3.0/7.4	3.8/9.5	4.5/11.3	1.5/3.5	1.5/3.5	1.7/4.2	2.0/4.9	3.0/7.4	3.8/9.5	4.5/11.3
16'-6"	Total Load	210	228	379	444	720	1,009	1,263	316	342	568	667	1,080	1,514	1,895
	Live Load L/360	147	159	260	305	490	716	995	220	238	391	457	735	1,074	1,493
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.3/5.8	3.2/8.1	4.0/10.1	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.3/5.8	3.2/8.1	4.0/10.1
18'-6"	Total Load	147	160	268	315	514	759	1,000	221	240	402	473	771	1,138	1,501
	Live Load L/360	105	113	186	218	352	517	722	157	170	280	328	529	776	1,084
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.9/4.7	2.7/6.8	3.6/9.0	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.9/4.7	2.7/6.8	3.6/9.0
20'	Total Load	115	125	210	248	407	603	850	172	187	316	372	610	905	1,275
	Live Load L/360	83	90	148	174	281	414	579	125	135	223	261	422	621	869
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.6/4.0	2.4/5.9	3.3/8.3	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.6/4.0	2.4/5.9	3.3/8.3
22'	Total Load	84	91	156	184	304	454	642	126	137	234	277	457	681	964
	Live Load L/360	63	68	112	131	213	314	441	94	102	168	197	320	472	662
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/4.9	2.8/6.9	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/4.9	2.8/6.9
24'	Total Load	62	68	118	140	232	349	496	94	103	177	210	349	523	744
	Live Load L/360	48	52	86	102	165	244	343	73	79	130	153	248	366	515
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	2.4/5.9	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	2.4/5.9
26'	Total Load		51	90	107	180	272	389	71	77	135	161	271	409	584
	Live Load L/360		41	68	80	130	193	272	57	62	102	120	196	290	409
	Min. End/Int. Bearing (in.)		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.0/5.1	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.0/5.1
28'	Total Load			70	84	142	216	310	54	59	105	126	213	324	465
	Live Load L/360			55	64	105	155	219	46	50	82	97	157	233	329
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.4	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.4
30'	Total Load			55	66	113	173	249			82	99	170	260	374
	Live Load L/360			44	52	85	127	179			67	79	128	190	269
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.9			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.9
32'	Total Load				52	91	140	203			64	78	136	210	305
	Live Load L/360				43	70	105	148			55	65	106	157	223
	Min. End/Int. Bearing (in.)				1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5

* Indicates **Total Load** value controls.

FLOOR LOAD TABLES

General Notes

- Table is based on:
 - Uniform loads (beam weight considered).
 - More restrictive of simple or continuous span.
 - Deflection criteria of L/240 total load (TL) and L/360 live load (LL).
- For live load deflection limits of L/240 or L/480, multiply **Live Load L/360** values by 1.5 or 0.75, respectively. The resulting live load may not exceed the total load shown.

Also see **How to Use This Table** on page 20 and **General Assumptions** on page 5.

2.OE Parallam® PSL: Floor—100% (PLF) *continued*

Span	Condition	7" Width						
		9¼"	9½"	11¼"	11½"	14"	16"	18"
8'	Total Load	2,939	3,034	3,723	3,981	4,912	5,866	5,866
	Live Load L/360	2,338	2,515	*	*	*	*	*
	Min. End/Int. Bearing (in.)	2.3/5.6	2.3/5.8	2.9/7.1	3.1/7.6	3.8/9.4	4.5/11.3	4.5/11.3
9'-6"	Total Load	2,153	2,294	3,020	3,222	3,940	4,667	4,934
	Live Load L/360	1,448	1,561	2,496	2,893	*	*	*
	Min. End/Int. Bearing (in.)	2.0/4.9	2.1/5.2	2.8/6.9	2.9/7.3	3.6/9.0	4.3/10.6	4.5/11.3
10'	Total Load	1,860	2,006	2,841	3,029	3,696	4,369	4,685
	Live Load L/360	1,253	1,351	2,168	2,515	*	*	*
	Min. End/Int. Bearing (in.)	1.8/4.5	1.9/4.8	2.7/6.8	2.9/7.3	3.5/8.9	4.2/10.5	4.5/11.3
12'	Total Load	1,096	1,184	1,928	2,185	2,960	3,476	3,898
	Live Load L/360	744	803	1,302	1,516	2,396	3,443	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.2/5.6	2.5/6.3	3.4/8.5	4.0/10.0	4.5/11.3
14'	Total Load	694	751	1,233	1,443	2,186	2,818	3,320
	Live Load L/360	476	514	839	979	1,561	2,264	3,122
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.7/4.2	2.0/4.9	3.0/7.4	3.8/9.5	4.5/11.3
16'-6"	Total Load	421	457	758	889	1,440	2,019	2,526
	Live Load L/360	294	318	521	610	980	1,432	1,991
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.3/5.8	3.2/8.1	4.0/10.1
18'-6"	Total Load	295	320	536	630	1,028	1,518	2,001
	Live Load L/360	210	227	373	437	705	1,035	1,445
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.9/4.7	2.7/6.8	3.6/9.0
20'	Total Load	230	250	421	497	814	1,207	1,700
	Live Load L/360	167	180	297	348	563	828	1,159
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.6/4.0	2.4/5.9	3.3/8.3
22'	Total Load	168	183	312	369	609	909	1,285
	Live Load L/360	126	136	224	263	426	629	883
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/4.9	2.8/6.9
24'	Total Load	125	137	236	280	465	698	992
	Live Load L/360	97	105	173	204	331	488	687
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	2.4/5.9
26'	Total Load	94	103	181	215	361	545	779
	Live Load L/360	76	83	137	161	261	387	545
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.0/5.1
28'	Total Load	72	79	140	168	285	432	620
	Live Load L/360	61	66	110	129	210	311	439
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.4
30'	Total Load	54	60	110	132	226	346	499
	Live Load L/360	50	54	89	105	171	254	359
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.9
32'	Total Load			86	104	182	280	406
	Live Load L/360			74	87	141	210	297
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5

* Indicates **Total Load** value controls.

SNOW ROOF LOAD TABLES

How to Use This Table

1. Calculate total load (neglect beam weight) on the beam or header in pounds per linear foot (plf).
2. Select appropriate **Span** (center-to-center of bearing).
3. Scan horizontally to find the proper width, and a depth with a capacity that exceeds actual total load.
4. Review bearing length requirements to ensure adequacy.

Also see **General Notes** on page 23.

TimberStrand® LSL: Roof—Snow Load Area 115% (PLF)

Span	Condition	1.3E Grade							1.55E Grade				
		3½" Width						5½" Plank Orientation	1¾" Width				
		4⅜"	5½"	7¼"	8⅝"	9¼"	11¼"	3½"	9¼"	9½"	11¼"	11⅝"	14"
3'	Total Load	1,770	2,740	4,644	6,469	7,128	7,128	1,393	3,479	3,642	4,192	4,192	4,192
	Deflection L/240 / L/360	*/1,420	*/2,548	*/*	*/*	*/*	*/*	*/1,224	*/*	*/*	*/*	*/*	*/*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.7/4.3	2.9/7.3	4.1/10.2	4.5/11.3	4.5/11.3	1.5/3.5	3.8/9.4	3.9/9.8	4.5/11.3	4.5/11.3	4.5/11.3
4'	Total Load	994	1,539	2,609	3,635	4,154	5,343	997	2,219	2,307	2,988	3,142	3,142
	Deflection L/240 / L/360	978/652	*/1215	*/2477	*/*	*/*	*/*	820/547	*/*	*/*	*/*	*/*	*/*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.2/5.5	3.1/7.7	3.5/8.7	4.5/11.3	1.5/3.5	3.2/8.0	3.3/8.3	4.3/10.7	4.5/11.3	4.5/11.3
5'	Total Load	634	983	1,667	2,323	2,655	3,860	534	1,629	1,688	2,132	2,306	2,512
	Deflection L/240 / L/360	522/348	*/662	*/1,399	*/2,189	*/2,605	*/*	432/288	*/1,553	*/1,658	*/*	*/*	*/*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.8/4.4	2.4/6.1	2.8/7.0	4.1/10.2	1.5/3.5	3.0/7.3	3.0/7.6	3.9/9.6	4.1/10.3	4.5/11.3
6'	Total Load	318	615	1,155	1,611	1,841	2,677	259	1,260	1,326	1,657	1,782	2,092
	Deflection L/240 / L/360	309/206	596/397	*/857	*/1,367	*/1,641	*/*	254/169	*/978	*/1,048	*/1,605	*/*	*/*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.7	2.0/5.1	2.3/5.8	3.4/8.5	1.5/3.5	2.8/6.8	2.9/7.1	3.6/9.0	3.8/9.6	4.5/11.3
7'	Total Load	172	337	743	1,181	1,350	1,963	138	924	973	1,344	1,452	1,792
	Deflection L/240 / L/360	*/132	*/256	*/560	*/904	*/1,092	*/1,828	*/107	*/651	*/699	*/1,089	*/1,250	*/*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.4	2.0/5.0	2.9/7.3	1.5/3.5	2.4/5.9	2.4/6.1	3.4/8.5	3.6/9.1	4.5/11.3
8'	Total Load	100	198	443	902	1,031	1,500	79	706	743	1,028	1,140	1,511
	Deflection L/240 / L/360	*/89	*/174	*/384	*/626	*/759	*/1,290	*/72	679/453	731/487	*/769	*/886	*/1352
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.8	1.7/4.4	2.5/6.4	1.5/3.5	2.1/5.1	2.1/5.4	3.0/7.4	3.3/8.2	4.3/10.9
9'-6"	Total Load		98	225	637	728	1,061		499	525	727	806	1,105
	Deflection L/240 / L/360		*/*	*/*	580/386	706/470	*/811		421/280	453/302	725/483	*/560	*/870
	Min. End/Int. Bearing (in.)		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.7	2.1/5.4		1.8/4.3	1.8/4.5	2.5/6.3	2.8/6.9	3.8/9.4
10'	Total Load		79	183	574	656	956		450	474	655	727	996
	Deflection L/240 / L/360		*/*	*/*	501/334	611/407	*/704		364/242	392/261	630/420	*/487	*/760
	Min. End/Int. Bearing (in.)		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.1		1.7/4.1	1.7/4.3	2.4/6.0	2.6/6.6	3.6/9.0
12'	Total Load			86	387	453	660		283	306	453	503	690
	Deflection L/240 / L/360			*/*	297/198	362/241	634/423		216/144	233/155	378/252	440/293	*/464
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2		1.5/3.5	1.5/3.5	2.0/5.0	2.2/5.5	3.0/7.5
14'	Total Load				244	300	482		179	194	318	367	504
	Deflection L/240 / L/360				189/126	232/154	409/272		138/92	149/99	243/162	284/189	453/302
	Min. End/Int. Bearing (in.)				1.5/3.5	1.5/3.5	1.5/3.6		1.5/3.5	1.5/3.5	1.7/4.1	1.9/4.7	2.6/6.4
16'-6"	Total Load				147	182	327		109	118	196	230	361
	Deflection L/240 / L/360				117/78	143/95	254/169		85/57	92/61	151/101	177/118	284/189
	Min. End/Int. Bearing (in.)				1.5/3.5	1.5/3.5	1.5/3.5		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.4
18'-6"	Total Load				102	127	231		76	83	138	163	265
	Deflection L/240 / L/360				83/56	102/68	182/121		61/40	66/44	108/72	127/84	205/136
	Min. End/Int. Bearing (in.)				1.5/3.5	1.5/3.5	1.5/3.5		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5
20'	Total Load				80	99	181		59	64	109	128	210
	Deflection L/240 / L/360				66/44	81/54	145/96		48/32	52/35	86/57	101/67	163/109
	Min. End/Int. Bearing (in.)				1.5/3.5	1.5/3.5	1.5/3.5		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.6/3.9
24'	Total Load					53	101				61	72	120
	Deflection L/240 / L/360					47/31	84/56				50/33	59/39	96/64
	Min. End/Int. Bearing (in.)					1.5/3.5	1.5/3.5				1.5/3.5	1.5/3.5	1.5/3.5
28'	Total Load						60						
	Deflection L/240 / L/360						53/35						
	Min. End/Int. Bearing (in.)						1.5/3.5						

* Indicates **Total Load** value controls.

SNOW ROOF LOAD TABLES

General Notes

- Table is based on:
 - Uniform loads (beam weight considered).
 - More restrictive of simple or continuous span.
 - Deflection criteria of L/180 total load. For stiffer deflection criteria, use L/240 values for total load deflection.
- For door and window applications, iLevel recommends using the L/360 value for a live load deflection limit and the L/240 value for a total load limit.

Also see **How to Use This Table** on page 22 and **General Assumptions** on page 5.

TimberStrand® LSL: Roof—Snow Load Area 115% (PLF) *continued*

Span	Condition	1.55E Grade											
		3½" Width						5¼" Width (2- or 3-ply)					
		9¼"	9½"	11¼"	11½"	14"	16"	9¼"	9½"	11¼"	11½"	14"	16"
3'	Total Load	6,958	7,284	8,382	8,382	8,382	8,382	10,437	10,926	12,573	12,573	12,573	12,573
	Deflection L/240 / L/360	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*
	Min. End/Int. Bearing (in.)	3.8/9.4	3.9/9.8	4.5/11.3	4.5/11.3	4.5/11.3	4.5/11.3	3.8/9.4	3.9/9.8	4.5/11.3	4.5/11.3	4.5/11.3	4.5/11.3
4'	Total Load	4,439	4,615	5,976	6,282	6,282	6,282	6,659	6,923	8,965	9,423	9,423	9,423
	Deflection L/240 / L/360	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*
	Min. End/Int. Bearing (in.)	3.2/8.0	3.3/8.3	4.3/10.7	4.5/11.3	4.5/11.3	4.5/11.3	3.2/8.0	3.3/8.3	4.3/10.7	4.5/11.3	4.5/11.3	4.5/11.3
5'	Total Load	3,258	3,376	4,265	4,612	5,022	5,022	4,887	5,064	6,398	6,919	7,533	7,533
	Deflection L/240 / L/360	*/3,106	*/3,316	*/*	*/*	*/*	*/*	*/4,659	*/4,975	*/*	*/*	*/*	*/*
	Min. End/Int. Bearing (in.)	3.0/7.3	3.0/7.6	3.9/9.6	4.1/10.3	4.5/11.3	4.5/11.3	3.0/7.3	3.0/7.6	3.9/9.6	4.1/10.3	4.5/11.3	4.5/11.3
6'	Total Load	2,521	2,652	3,315	3,565	4,182	4,182	3,781	3,979	4,972	5,348	6,273	6,273
	Deflection L/240 / L/360	*/1,957	*/2,097	*/3,210	*/*	*/*	*/*	*/2,936	*/3,146	*/4,816	*/*	*/*	*/*
	Min. End/Int. Bearing (in.)	2.8/6.8	2.9/7.1	3.6/9.0	3.8/9.6	4.5/11.3	4.5/11.3	2.8/6.8	2.9/7.1	3.6/9.0	3.8/9.6	4.5/11.3	4.5/11.3
7'	Total Load	1,849	1,946	2,689	2,904	3,582	3,582	2,774	2,919	4,034	4,357	5,373	5,373
	Deflection L/240 / L/360	*/1,302	*/1,399	*/2,179	*/2,501	*/*	*/*	*/1,954	*/2,098	*/3,269	*/3,752	*/*	*/*
	Min. End/Int. Bearing (in.)	2.4/5.9	2.4/6.1	3.4/8.5	3.6/9.1	4.5/11.3	4.5/11.3	2.4/5.9	2.4/6.1	3.4/8.5	3.6/9.1	4.5/11.3	4.5/11.3
8'	Total Load	1,413	1,487	2,056	2,280	3,022	3,132	2,120	2,231	3,084	3,420	4,534	4,698
	Deflection L/240 / L/360	1,359/906	1,462/974	*/1,538	*/1,773	*/2,705	*/*	2,038/1,359	2,193/1,462	*/2,307	*/2,660	*/4,058	*/*
	Min. End/Int. Bearing (in.)	2.1/5.1	2.1/5.4	3.0/7.4	3.3/8.2	4.3/10.9	4.5/11.3	2.1/5.1	2.1/5.4	3.0/7.4	3.3/8.2	4.3/10.9	4.5/11.3
9'-6"	Total Load	999	1,051	1,454	1,613	2,211	2,635	1,499	1,577	2,181	2,419	3,316	3,952
	Deflection L/240 / L/360	842/561	907/605	1,451/967	*/1,121	*/1,740	*/2,456	1,263/842	1,361/907	2,176/1,451	*/1,681	*/2,610	*/3,684
	Min. End/Int. Bearing (in.)	1.8/4.3	1.8/4.5	2.5/6.3	2.8/6.9	3.8/9.4	4.5/11.3	1.8/4.3	1.8/4.5	2.5/6.3	2.8/6.9	3.8/9.4	4.5/11.3
10'	Total Load	901	948	1,311	1,454	1,993	2,502	1,351	1,422	1,967	2,182	2,990	3,753
	Deflection L/240 / L/360	728/485	785/523	1,260/840	*/974	*/1,520	*/2,154	1,092/728	1,178/785	1,890/1,260	*/1,462	*/2,280	*/3,232
	Min. End/Int. Bearing (in.)	1.7/4.1	1.7/4.3	2.4/6.0	2.6/6.6	3.6/9.0	4.5/11.3	1.7/4.1	1.7/4.3	2.4/6.0	2.6/6.6	3.6/9.0	4.5/11.3
12'	Total Load	566	612	907	1,006	1,380	1,782	850	918	1,360	1,509	2,070	2,674
	Deflection L/240 / L/360	432/288	467/311	756/504	881/587	*/928	*/1,334	649/432	700/467	1,135/756	1,322/881	*/1,393	*/2,001
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.0/5.0	2.2/5.5	3.0/7.5	3.9/9.7	1.5/3.5	1.5/3.5	2.0/5.0	2.2/5.5	3.0/7.5	3.9/9.7
14'	Total Load	359	388	637	735	1,009	1,305	538	582	956	1,103	1,514	1,957
	Deflection L/240 / L/360	276/184	299/199	487/325	569/379	907/605	*/877	415/276	448/299	731/487	854/569	1,361/907	*/1,316
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.7/4.1	1.9/4.7	2.6/6.4	3.4/8.3	1.5/3.5	1.5/3.5	1.7/4.1	1.9/4.7	2.6/6.4	3.4/8.3
16'-6"	Total Load	218	236	392	460	722	934	327	354	588	690	1,084	1,402
	Deflection L/240 / L/360	171/114	185/123	303/202	354/236	569/379	832/555	256/171	277/185	455/303	532/354	854/569	1,248/832
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.4	2.9/7.1	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.4	2.9/7.1
18'-6"	Total Load	152	166	277	326	531	739	229	249	416	489	797	1,109
	Deflection L/240 / L/360	122/81	132/88	217/144	254/169	410/273	601/401	183/122	198/132	326/217	381/254	615/410	902/601
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5	2.6/6.3	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5	2.6/6.3
20'	Total Load	119	129	218	257	421	624	179	194	327	385	631	936
	Deflection L/240 / L/360	97/64	105/70	172/115	202/135	327/218	481/320	145/97	157/105	259/172	304/202	491/327	722/481
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.6/3.9	2.3/5.8	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.6/3.9	2.3/5.8
24'	Total Load	65	71	122	145	241	361	98	106	183	217	361	542
	Deflection L/240 / L/360	56/37	61/40	101/67	118/79	192/128	284/189	84/56	91/61	151/101	177/118	288/192	426/284
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.1	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.1
28'	Total Load			73	87	147	224	56	61	109	130	221	336
	Deflection L/240 / L/360			64/42	75/50	122/81	181/120	53/35	58/38	96/64	112/75	183/122	271/181
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5

* Indicates Total Load value controls.

SNOW ROOF LOAD TABLES

How to Use This Table

1. Calculate total load (neglect beam weight) on the beam or header in pounds per linear foot (plf).
2. Select appropriate **Span** (center-to-center of bearing).
3. Scan horizontally to find the proper width, and a depth with a capacity that exceeds actual total load.
4. Review bearing length requirements to ensure adequacy.

Also see **General Notes** on page 25.

1.9E Microllam® LVL: Roof—Snow Load Area 115% (PLF)

Span	Condition	1¾" Width							3½" Width (2-ply)					
		5½"	7¼"	9¼"	9½"	11¼"	11⅝"	14"	5½"	7¼"	9¼"	9½"	11¼"	11⅝"
6'	Total Load	451	877	1,182	1,223	1,523	1,638	1,961	902	1,755	2,365	2,446	3,047	3,277
	Deflection L/240	435	*	*	*	*	*	*	870	*	*	*	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	2.0/5.0	2.7/6.8	2.8/7.0	3.5/8.7	3.8/9.4	4.5/11.3	1.5/3.5	2.0/5.0	2.7/6.8	2.8/7.0	3.5/8.7	3.8/9.4
8'	Total Load	146	326	800	841	1,053	1,126	1,389	292	652	1,601	1,682	2,106	2,252
	Deflection L/240	*	*	*	*	*	*	*	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.5/6.1	2.6/6.4	3.2/8.1	3.5/8.6	4.3/10.6	1.5/3.5	1.5/3.5	2.5/6.1	2.6/6.4	3.2/8.1	3.5/8.6
9'-6"	Total Load	73	166	566	595	816	903	1,114	146	332	1,132	1,190	1,633	1,807
	Deflection L/240	*	*	516	556	*	*	*	*	*	1,032	1,112	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.1/5.2	2.2/5.4	3.0/7.4	3.3/8.2	4.1/10.2	1.5/3.5	1.5/3.5	2.1/5.2	2.2/5.4	3.0/7.4	3.3/8.2
10'	Total Load	59	135	510	536	736	814	1,045	118	270	1,021	1,073	1,473	1,629
	Deflection L/240	*	*	446	481	*	*	*	*	*	893	963	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.0/4.9	2.1/5.2	2.8/7.1	3.1/7.8	4.0/10.0	1.5/3.5	1.5/3.5	2.0/4.9	2.1/5.2	2.8/7.1	3.1/7.8
12'	Total Load		64	348	371	509	564	767	54	128	697	742	1,019	1,128
	Deflection L/240		*	265	286	463	540	*	*	*	530	572	927	1,080
	Min. End/Int. Bearing (in.)		1.5/3.5	1.6/4.0	1.7/4.3	2.4/5.9	2.6/6.5	3.5/8.9	1.5/3.5	1.5/3.5	1.6/4.0	1.7/4.3	2.4/5.9	2.6/6.5
14'	Total Load			221	239	373	412	562		66	443	479	745	825
	Deflection L/240			169	183	298	348	556		*	339	366	597	697
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	2.0/5.0	2.2/5.6	3.0/7.6		1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.0	2.2/5.6
16'-6"	Total Load			135	146	242	283	402			270	292	484	567
	Deflection L/240			104	113	185	217	349			209	227	371	435
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.6/3.9	1.8/4.6	2.6/6.4			1.5/3.5	1.5/3.5	1.6/3.9	1.8/4.6
18'-6"	Total Load			95	103	171	201	318			190	206	343	403
	Deflection L/240			74	81	133	155	251			149	162	266	311
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.7	2.3/5.7			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.7
20'	Total Load			74	81	135	159	260			149	162	271	319
	Deflection L/240			59	64	106	124	200			119	128	212	248
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.1			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
22'	Total Load			55	59	101	119	195			110	119	202	238
	Deflection L/240			44	48	80	93	152			89	97	160	187
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
24'	Total Load					76	90	150			83	90	153	181
	Deflection L/240					61	72	117			69	75	123	145
	Min. End/Int. Bearing (in.)					1.5/3.5	1.5/3.5	1.5/3.6			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
26'	Total Load					59	70	117			63	69	118	140
	Deflection L/240					48	57	93			54	59	97	114
	Min. End/Int. Bearing (in.)					1.5/3.5	1.5/3.5	1.5/3.5			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
28'	Total Load						55	92				53	93	110
	Deflection L/240						46	74				47	78	92
	Min. End/Int. Bearing (in.)						1.5/3.5	1.5/3.5				1.5/3.5	1.5/3.5	1.5/3.5
30'	Total Load							74					73	88
	Deflection L/240							61					63	75
	Min. End/Int. Bearing (in.)							1.5/3.5					1.5/3.5	1.5/3.5

* Indicates **Total Load** value controls.

SNOW ROOF LOAD TABLES

General Notes

- Table is based on:
 - Uniform loads (beam weight considered).
 - More restrictive of simple or continuous span.
 - Deflection criteria of L/180 total load. For stiffer deflection criteria, use L/240 values for total load deflection.

Also see **How to Use This Table** on page 24 and **General Assumptions** on page 5.

1.9E Microllam® LVL: Roof—Snow Load Area 115% (PLF) *continued*

Span	Condition	3½" Width (2-ply)				5¼" Width (3-ply)									
		14"	16"	18"	20"	5½"	7¼"	9¼"	9½"	11¼"	11½"	14"	16"	18"	20"
6'	Total Load	3,917	3,917	3,917	3,917	1,353	2,632	3,547	3,669	4,571	4,916	5,875	5,875	5,875	5,875
	Deflection L/240	*	*	*	*	1,305	*	*	*	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	4.5/11.3	4.5/11.3	4.5/11.3	4.5/11.3	1.5/3.5	2.0/5.0	2.7/6.8	2.8/7.0	3.5/8.7	3.8/9.4	4.5/11.3	4.5/11.3	4.5/11.3	4.5/11.3
8'	Total Load	2,778	2,932	2,932	2,932	438	978	2,401	2,524	3,159	3,378	4,168	4,399	4,399	4,399
	Deflection L/240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	4.3/10.6	4.5/11.3	4.5/11.3	4.5/11.3	1.5/3.5	1.5/3.5	2.5/6.1	2.6/6.4	3.2/8.1	3.5/8.6	4.3/10.6	4.5/11.3	4.5/11.3	4.5/11.3
9'-6"	Total Load	2,229	2,466	2,466	2,466	219	498	1,698	1,785	2,450	2,710	3,344	3,699	3,699	3,699
	Deflection L/240	*	*	*	*	*	*	1,548	1,669	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	4.1/10.2	4.5/11.3	4.5/11.3	4.5/11.3	1.5/3.5	1.5/3.5	2.1/5.2	2.2/5.4	3.0/7.4	3.3/8.2	4.1/10.2	4.5/11.3	4.5/11.3	4.5/11.3
10'	Total Load	2,091	2,342	2,342	2,342	177	406	1,531	1,610	2,209	2,444	3,137	3,513	3,513	3,513
	Deflection L/240	*	*	*	*	*	*	1,339	1,444	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	4.0/10.0	4.5/11.3	4.5/11.3	4.5/11.3	1.5/3.5	1.5/3.5	2.0/4.9	2.1/5.2	2.8/7.1	3.1/7.8	4.0/10.0	4.5/11.2	4.5/11.2	4.5/11.2
12'	Total Load	1,535	1,948	1,948	1,948	82	193	1,046	1,113	1,529	1,692	2,303	2,922	2,922	2,922
	Deflection L/240	*	*	*	*	*	*	795	859	1,391	1,620	*	*	*	*
	Min. End/Int. Bearing (in.)	3.5/8.9	4.5/11.3	4.5/11.3	4.5/11.3	1.5/3.5	1.5/3.5	1.6/4.0	1.7/4.3	2.4/5.9	2.6/6.5	3.5/8.9	4.5/11.2	4.5/11.2	4.5/11.2
14'	Total Load	1,124	1,444	1,667	1,667		100	664	719	1,118	1,238	1,686	2,166	2,500	2,500
	Deflection L/240	1,112	*	*	*		*	509	550	896	1,046	1,669	*	*	*
	Min. End/Int. Bearing (in.)	3.0/7.6	3.9/9.7	4.5/11.3	4.5/11.3		1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.0	2.2/5.6	3.0/7.6	3.9/9.7	4.5/11.2	4.5/11.2
16'-6"	Total Load	805	1,035	1,291	1,411			405	439	726	851	1,208	1,552	1,936	2,117
	Deflection L/240	698	1,020	*	*			314	340	557	652	1,047	1,530	*	*
	Min. End/Int. Bearing (in.)	2.6/6.4	3.3/8.3	4.1/10.3	4.5/11.3			1.5/3.5	1.5/3.5	1.6/3.9	1.8/4.6	2.6/6.4	3.3/8.3	4.1/10.3	4.5/11.2
18'-6"	Total Load	637	820	1,023	1,247			285	309	515	605	956	1,230	1,534	1,871
	Deflection L/240	502	737	*	*			224	243	399	467	754	1,106	*	*
	Min. End/Int. Bearing (in.)	2.3/5.7	2.9/7.4	3.7/9.2	4.5/11.2			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.7	2.3/5.7	2.9/7.4	3.7/9.2	4.5/11.2
20'	Total Load	520	699	872	1,064			224	243	406	478	781	1,048	1,309	1,596
	Deflection L/240	401	590	826	*			178	193	318	372	602	885	1,239	*
	Min. End/Int. Bearing (in.)	2.0/5.1	2.7/6.8	3.4/8.5	4.1/10.3			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.1	2.7/6.8	3.4/8.5	4.1/10.3
22'	Total Load	391	575	718	876			165	179	303	357	586	862	1,077	1,314
	Deflection L/240	304	448	629	850			134	145	240	281	456	672	944	1,275
	Min. End/Int. Bearing (in.)	1.7/4.2	2.5/6.2	3.1/7.7	3.8/9.4			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	2.5/6.2	3.1/7.7	3.8/9.4
24'	Total Load	300	448	600	732			124	135	230	272	450	672	900	1,099
	Deflection L/240	235	348	490	663			104	112	185	218	353	522	735	995
	Min. End/Int. Bearing (in.)	1.5/3.6	2.1/5.3	2.8/7.1	3.4/8.6			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.1/5.3	2.8/7.1	3.4/8.6
26'	Total Load	234	351	499	621			95	103	178	211	351	527	749	932
	Deflection L/240	186	275	388	527			82	88	146	172	279	413	583	790
	Min. End/Int. Bearing (in.)	1.5/3.5	1.8/4.6	2.6/6.4	3.2/7.9			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.6	2.6/6.4	3.2/7.9
28'	Total Load	185	279	399	533			73	80	139	166	278	419	599	799
	Deflection L/240	149	222	313	425			65	71	117	138	224	333	470	638
	Min. End/Int. Bearing (in.)	1.5/3.5	1.6/3.9	2.2/5.6	3.0/7.4			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.6/3.9	2.2/5.6	3.0/7.4
30'	Total Load	148	225	323	444			57	62	110	132	223	338	484	666
	Deflection L/240	122	181	256	348			53	58	95	112	183	271	384	522
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.0/4.9	2.7/6.6			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/4.9	2.7/6.6

* Indicates **Total Load** value controls.

SNOW ROOF LOAD TABLES

How to Use This Table

1. Calculate total load (neglect beam weight) on the beam or header in pounds per linear foot (plf).
2. Select appropriate **Span** (center-to-center of bearing).
3. Scan horizontally to find the proper width, and a depth with a capacity that exceeds actual total load.
4. Review bearing length requirements to ensure adequacy.

Also see **General Notes** on page 27.

2.OE Parallam® PSL: Roof—Snow Load Area 115% (PLF)

Span	Condition	3½" Width							5¼" Width						
		9¼"	9½"	11¼"	11½"	14"	16"	18"	9¼"	9½"	11¼"	11½"	14"	16"	18"
8'	Total Load	1,691	1,746	2,142	2,291	2,826	2,933	2,933	2,537	2,619	3,213	3,436	4,240	4,400	4,400
	Deflection L/240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	2.6/6.5	2.7/6.7	3.3/8.2	3.5/8.8	4.3/10.8	4.5/11.3	4.5/11.3	2.6/6.5	2.7/6.7	3.3/8.2	3.5/8.8	4.3/10.8	4.5/11.3	4.5/11.3
9'-6"	Total Load	1,255	1,320	1,738	1,854	2,268	2,467	2,467	1,883	1,980	2,607	2,781	3,402	3,700	3,700
	Deflection L/240	1,086	1,171	*	*	*	*	*	1,630	1,757	*	*	*	*	*
	Min. End/Int. Bearing (in.)	2.3/5.7	2.4/6.0	3.2/7.9	3.4/8.4	4.1/10.3	4.5/11.3	4.5/11.3	2.3/5.7	2.4/6.0	3.2/7.9	3.4/8.4	4.1/10.3	4.5/11.3	4.5/11.3
10'	Total Load	1,132	1,190	1,635	1,743	2,127	2,342	2,342	1,698	1,786	2,453	2,615	3,191	3,514	3,514
	Deflection L/240	940	1,013	1,626	*	*	*	*	1,410	1,520	2,439	*	*	*	*
	Min. End/Int. Bearing (in.)	2.2/5.4	2.3/5.7	3.1/7.8	3.3/8.4	4.1/10.2	4.5/11.3	4.5/11.3	2.2/5.4	2.3/5.7	3.1/7.8	3.3/8.4	4.1/10.2	4.5/11.3	4.5/11.3
12'	Total Load	734	793	1,135	1,258	1,704	1,949	1,949	1,101	1,190	1,703	1,887	2,557	2,923	2,923
	Deflection L/240	558	602	976	1,137	*	*	*	837	904	1,464	1,706	*	*	*
	Min. End/Int. Bearing (in.)	1.7/4.3	1.8/4.6	2.6/6.6	2.9/7.3	3.9/9.8	4.5/11.3	4.5/11.3	1.7/4.3	1.8/4.6	2.6/6.6	2.9/7.3	3.9/9.8	4.5/11.3	4.5/11.3
14'	Total Load	466	504	826	921	1,259	1,623	1,667	699	756	1,240	1,381	1,889	2,434	2,501
	Deflection L/240	357	386	629	734	1,171	*	*	535	579	943	1,102	1,757	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.2/5.6	2.5/6.2	3.4/8.5	4.4/10.9	4.5/11.3	1.5/3.5	1.5/3.5	2.2/5.6	2.5/6.2	3.4/8.5	4.4/10.9	4.5/11.3
16'-6"	Total Load	284	308	509	597	902	1,163	1,412	426	462	764	896	1,353	1,745	2,118
	Deflection L/240	220	238	391	457	735	1,074	*	331	358	587	686	1,103	1,611	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.6/4.1	1.9/4.8	2.9/7.2	3.7/9.3	4.5/11.3	1.5/3.5	1.5/3.5	1.6/4.1	1.9/4.8	2.9/7.2	3.7/9.3	4.5/11.2
18'-6"	Total Load	200	217	361	424	690	922	1,154	300	325	542	637	1,035	1,383	1,731
	Deflection L/240	157	170	280	328	529	776	1,084	236	256	420	492	794	1,164	1,626
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.9	2.5/6.2	3.3/8.3	4.1/10.3	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.9	2.5/6.2	3.3/8.3	4.1/10.3
20'	Total Load	157	170	285	335	548	786	984	235	255	427	503	822	1,179	1,476
	Deflection L/240	125	135	223	261	422	621	869	188	203	334	392	633	931	1,304
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.1/5.4	3.1/7.7	3.8/9.6	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.1/5.4	3.1/7.7	3.8/9.6
22'	Total Load	115	126	212	250	411	611	810	173	189	318	375	617	917	1,215
	Deflection L/240	94	102	168	197	320	472	662	141	153	252	296	480	708	994
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5	2.6/6.6	3.5/8.7	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5	2.6/6.6	3.5/8.7
24'	Total Load	87	95	161	191	315	471	668	130	142	242	286	473	707	1,002
	Deflection L/240	73	79	130	153	248	366	515	109	118	195	229	372	550	773
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.8	2.2/5.6	3.1/7.9	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.8	2.2/5.6	3.1/7.9
26'	Total Load	66	72	124	148	246	369	525	100	109	187	222	369	554	788
	Deflection L/240	57	62	102	120	196	290	409	86	93	154	181	294	435	613
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.9/4.8	2.7/6.8	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.9/4.8	2.7/6.8
28'	Total Load	51	56	97	116	195	294	420	77	84	146	174	292	441	630
	Deflection L/240	46	50	82	97	157	233	329	69	75	123	145	236	350	494
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	2.3/5.9	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	2.3/5.9
30'	Total Load			77	92	156	236	339	60	65	116	138	234	355	509
	Deflection L/240			67	79	128	190	269	56	61	101	118	193	286	404
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.1/5.1	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.1/5.1
32'	Total Load			61	74	126	192	277		51	92	111	189	289	416
	Deflection L/240			55	65	106	157	223		50	83	97	159	236	334
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5

* Indicates **Total Load** value controls.

SNOW ROOF LOAD TABLES

General Notes

- Table is based on:
 - Uniform loads (beam weight considered).
 - More restrictive of simple or continuous span.
 - Deflection criteria of L/180 total load. For stiffer deflection criteria, use L/240 values for total load deflection.

Also see **How to Use This Table** on page 26 and **General Assumptions** on page 5.

2.OE Parallam® PSL: Roof—Snow Load Area 115% (PLF) *continued*

Span	Condition	7" Width						
		9¼"	9½"	11¼"	11⅝"	14"	16"	18"
8'	Total Load	3,383	3,492	4,285	4,582	5,653	5,866	5,866
	Deflection L/240	*	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	2.6/6.5	2.7/6.7	3.3/8.2	3.5/8.8	4.3/10.8	4.5/11.3	4.5/11.3
9'-6"	Total Load	2,511	2,641	3,477	3,709	4,536	4,934	4,934
	Deflection L/240	2,173	2,342	*	*	*	*	*
	Min. End/Int. Bearing (in.)	2.3/5.7	2.4/6.0	3.2/7.9	3.4/8.4	4.1/10.3	4.5/11.3	4.5/11.3
10'	Total Load	2,264	2,381	3,271	3,487	4,255	4,685	4,685
	Deflection L/240	1,880	2,027	3,252	*	*	*	*
	Min. End/Int. Bearing (in.)	2.2/5.4	2.3/5.7	3.1/7.8	3.3/8.4	4.1/10.2	4.5/11.3	4.5/11.3
12'	Total Load	1,468	1,586	2,271	2,517	3,409	3,898	3,898
	Deflection L/240	1,116	1,205	1,953	2,274	*	*	*
	Min. End/Int. Bearing (in.)	1.7/4.3	1.8/4.6	2.6/6.6	2.9/7.3	3.9/9.8	4.5/11.3	4.5/11.3
14'	Total Load	932	1,008	1,653	1,842	2,519	3,246	3,335
	Deflection L/240	714	772	1,258	1,469	2,342	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.2/5.6	2.5/6.2	3.4/8.5	4.4/10.9	4.5/11.3
16'-6"	Total Load	569	616	1,019	1,195	1,805	2,327	2,824
	Deflection L/240	441	477	782	915	1,470	2,148	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.6/4.1	1.9/4.8	2.9/7.2	3.7/9.3	4.5/11.3
18'-6"	Total Load	400	434	723	849	1,381	1,844	2,308
	Deflection L/240	315	341	560	656	1,058	1,553	2,168
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.9	2.5/6.2	3.3/8.3	4.1/10.3
20'	Total Load	314	340	570	671	1,096	1,572	1,969
	Deflection L/240	250	271	446	523	845	1,242	1,739
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.1/5.4	3.1/7.7	3.8/9.6
22'	Total Load	231	252	425	501	823	1,223	1,620
	Deflection L/240	189	204	337	395	640	944	1,325
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5	2.6/6.6	3.5/8.7
24'	Total Load	174	190	323	382	631	942	1,336
	Deflection L/240	146	158	260	306	496	733	1,031
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.8	2.2/5.6	3.1/7.9
26'	Total Load	133	145	249	296	492	739	1,051
	Deflection L/240	115	124	205	241	392	580	818
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.9/4.8	2.7/6.8
28'	Total Load	102	112	195	232	390	588	840
	Deflection L/240	92	100	165	194	315	467	659
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	2.3/5.9
30'	Total Load	80	87	154	184	312	473	679
	Deflection L/240	75	81	134	158	257	381	539
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.1/5.1
32'	Total Load	62	68	123	148	253	385	555
	Deflection L/240	62	67	111	130	212	315	446
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5

* Indicates **Total Load** value controls.

NON-SNOW ROOF LOAD TABLES

How to Use This Table

1. Calculate total load (neglect beam weight) on the beam or header in pounds per linear foot (plf).
2. Select appropriate **Span** (center-to-center of bearing).
3. Scan horizontally to find the proper width, and a depth with a capacity that exceeds actual total load.
4. Review bearing length requirements to ensure adequacy.

Also see **General Notes** on page 29.

TimberStrand® LSL: Roof—Non-Snow Load Area 125% (PLF)

Span	Condition	1.3E Grade							1.55E Grade				
		3½" Width						5½" Plank Orientation	1¾" Width				
		4⅝"	5½"	7¼"	8⅝"	9¼"	11¼"		9¼"	9½"	11¼"	11⅝"	14"
3'	Total Load	1,924	2,979	5,048	7,033	7,128	7,128	1,514	3,782	3,959	4,192	4,192	4,192
	Deflection L/240 / L/360	*1,420	*2,548	*4,885	*/*	*/*	*/*	*1,224	*/*	*/*	*/*	*/*	*/*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.9/4.7	3.2/8.0	4.4/11.1	4.5/11.3	4.5/11.3	1.5/3.5	4.1/10.2	4.2/10.6	4.5/11.3	4.5/11.3	4.5/11.3
4'	Total Load	1,080	1,673	2,836	3,952	4,516	5,343	1,084	2,413	2,508	3,142	3,142	3,142
	Deflection L/240 / L/360	978/652	*1,215	*2,477	*3,765	*4,423	*/*	820/547	*/*	*/*	*/*	*/*	*/*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.4/6.0	3.3/8.3	3.8/9.5	4.5/11.3	1.5/3.5	3.5/8.7	3.6/9.0	4.5/11.3	4.5/11.3	4.5/11.3
5'	Total Load	648	1,069	1,813	2,526	2,887	4,197	534	1,771	1,835	2,318	2,507	2,512
	Deflection L/240 / L/360	522/348	993/662	*1,399	*2,189	*2,605	*4,154	432/288	*1,553	*1,658	*/*	*/*	*/*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.9/4.8	2.7/6.7	3.0/7.6	4.4/11.1	1.5/3.5	3.2/8.0	3.3/8.2	4.2/10.4	4.5/11.2	4.5/11.3
6'	Total Load	318	615	1,256	1,752	2,002	2,911	259	1,370	1,442	1,802	1,938	2,092
	Deflection L/240 / L/360	309/206	596/397	*857	*1,367	*1,641	*2,692	254/169	*978	*1,048	*1,605	*1,831	*/*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.6/4.0	2.2/5.5	2.5/6.3	3.7/9.2	1.5/3.5	3.0/7.4	3.1/7.8	3.9/9.7	4.2/10.4	4.5/11.3
7'	Total Load	172	337	743	1,285	1,468	2,135	138	1,005	1,058	1,462	1,579	1,792
	Deflection L/240 / L/360	*132	*256	*560	*904	*1,092	*1,828	*107	977/651	1,049/699	*1,089	*1,250	*/*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.9/4.8	2.2/5.4	3.2/7.9	1.5/3.5	2.6/6.4	2.7/6.6	3.7/9.2	4.0/9.9	4.5/11.3
8'	Total Load	100	198	443	981	1,122	1,632	79	768	809	1,118	1,239	1,567
	Deflection L/240 / L/360	*89	*174	*384	939/626	*759	*1,290	*72	679/453	731/487	*769	*886	*1,352
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	1.9/4.8	2.8/6.9	1.5/3.5	2.3/5.6	2.3/5.8	3.3/8.1	3.6/8.9	4.5/11.3
9'-6"	Total Load		98	225	693	793	1,154		543	572	791	877	1,202
	Deflection L/240 / L/360		*/*	*/*	580/386	706/470	*811		421/280	453/302	725/483	840/560	*870
	Min. End/Int. Bearing (in.)		1.5/3.5	1.5/3.5	1.5/3.5	1.6/4.0	2.3/5.8		1.9/4.7	2.0/4.9	2.8/6.8	3.0/7.5	4.1/10.3
10'	Total Load		79	183	625	714	1,040		480	515	713	791	1,084
	Deflection L/240 / L/360		*/*	*/*	501/334	611/407	*704		364/242	392/261	630/420	731/487	*760
	Min. End/Int. Bearing (in.)		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.8	2.2/5.5		1.8/4.4	1.9/4.7	2.6/6.5	2.8/7.1	3.9/9.8
12'	Total Load			86	387	474	719		283	306	493	547	750
	Deflection L/240 / L/360			*/*	297/198	362/241	634/423		216/144	233/155	378/252	440/293	696/464
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.6		1.5/3.5	1.5/3.5	2.2/5.4	2.4/5.9	3.3/8.1
14'	Total Load				244	300	525		179	194	318	373	549
	Deflection L/240 / L/360				189/126	232/154	409/272		138/92	149/99	243/162	284/189	453/302
	Min. End/Int. Bearing (in.)				1.5/3.5	1.5/3.5	1.6/3.9		1.5/3.5	1.5/3.5	1.7/4.1	1.9/4.7	2.8/7.0
16'-6"	Total Load				147	182	327		109	118	196	230	372
	Deflection L/240 / L/360				117/78	143/95	254/169		85/57	92/61	151/101	177/118	284/189
	Min. End/Int. Bearing (in.)				1.5/3.5	1.5/3.5	1.5/3.5		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.6
18'-6"	Total Load				102	127	231		76	83	138	163	265
	Deflection L/240 / L/360				83/56	102/68	182/121		61/40	66/44	108/72	127/84	205/136
	Min. End/Int. Bearing (in.)				1.5/3.5	1.5/3.5	1.5/3.5		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5
20'	Total Load				80	99	181		59	64	109	128	210
	Deflection L/240 / L/360				66/44	81/54	145/96		48/32	52/35	86/57	101/67	163/109
	Min. End/Int. Bearing (in.)				1.5/3.5	1.5/3.5	1.5/3.5		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.6/3.9
24'	Total Load					53	101					72	120
	Deflection L/240 / L/360					47/31	84/56				50/33	59/39	96/64
	Min. End/Int. Bearing (in.)					1.5/3.5	1.5/3.5				1.5/3.5	1.5/3.5	1.5/3.5
28'	Total Load						60						73
	Deflection L/240 / L/360						53/35						61/40
	Min. End/Int. Bearing (in.)						1.5/3.5						1.5/3.5

* Indicates **Total Load** value controls.

NON-SNOW ROOF LOAD TABLES

General Notes

- Table is based on:
 - Uniform loads (beam weight considered).
 - More restrictive of simple or continuous span.
 - Deflection criteria of L/180 total load. For stiffer deflection criteria, use L/240 values for total load deflection.
- For door and window applications, iLevel recommends using the L/360 value for a live load deflection limit and the L/240 value for a total load limit.

Also see **How to Use This Table** on page 28 and **General Assumptions** on page 5.

TimberStrand® LSL: Roof—Non-Snow Load Area 125% (PLF) *continued*

Span	Condition	1.55E Grade											
		3½" Width						5¼" Width (2- or 3-ply)					
		9¼"	9½"	11¼"	11½"	14"	16"	9¼"	9½"	11¼"	11½"	14"	16"
3'	Total Load	7,564	7,918	8,382	8,382	8,382	8,382	11,346	11,877	12,573	12,573	12,573	12,573
	Deflection L/240 / L/360	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*
	Min. End/Int. Bearing (in.)	4.1/10.2	4.2/10.6	4.5/11.3	4.5/11.3	4.5/11.3	4.5/11.3	4.1/10.2	4.2/10.6	4.5/11.3	4.5/11.3	4.5/11.3	4.5/11.3
4'	Total Load	4,826	5,017	6,282	6,282	6,282	6,282	7,239	7,526	9,423	9,423	9,423	9,423
	Deflection L/240 / L/360	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*	*/*
	Min. End/Int. Bearing (in.)	3.5/8.7	3.6/9.0	4.5/11.3	4.5/11.3	4.5/11.3	4.5/11.3	3.5/8.7	3.6/9.0	4.5/11.3	4.5/11.3	4.5/11.3	4.5/11.3
5'	Total Load	3,542	3,670	4,637	5,015	5,022	5,022	5,313	5,506	6,956	7,522	7,533	7,533
	Deflection L/240 / L/360	*/3,106	*/3,316	*/*	*/*	*/*	*/*	*/4,659	*/4,975	*/*	*/*	*/*	*/*
	Min. End/Int. Bearing (in.)	3.2/8.0	3.3/8.2	4.2/10.4	4.5/11.2	4.5/11.3	4.5/11.3	3.2/8.0	3.3/8.2	4.2/10.4	4.5/11.2	4.5/11.3	4.5/11.3
6'	Total Load	2,741	2,884	3,604	3,876	4,182	4,182	4,111	4,326	5,406	5,814	6,273	6,273
	Deflection L/240 / L/360	*/1,957	*/2,097	*/3,210	*/3,662	*/*	*/*	*/2,936	*/3,146	*/4,816	*/5,493	*/*	*/*
	Min. End/Int. Bearing (in.)	3.0/7.4	3.1/7.8	3.9/9.7	4.2/10.4	4.5/11.3	4.5/11.3	3.0/7.4	3.1/7.8	3.9/9.7	4.2/10.4	4.5/11.3	4.5/11.3
7'	Total Load	2,011	2,116	2,924	3,158	3,582	3,582	3,016	3,174	4,386	4,737	5,373	5,373
	Deflection L/240 / L/360	1,954/1,302	2,098/1,399	*/2,179	*/2,501	*/*	*/*	2,931/1,954	3,148/2,098	*/3,269	*/3,752	*/*	*/*
	Min. End/Int. Bearing (in.)	2.6/6.4	2.7/6.6	3.7/9.2	4.0/9.9	4.5/11.3	4.5/11.3	2.6/6.4	2.7/6.6	3.7/9.2	4.0/9.9	4.5/11.3	4.5/11.3
8'	Total Load	1,537	1,618	2,236	2,479	3,132	3,132	2,306	2,427	3,354	3,719	4,698	4,698
	Deflection L/240 / L/360	1,359/906	1,462/974	*/1,538	*/1,773	*/2,705	*/*	2,038/1,359	2,193/1,462	*/2,307	*/2,660	*/4,058	*/*
	Min. End/Int. Bearing (in.)	2.3/5.6	2.3/5.8	3.3/8.1	3.6/8.9	4.5/11.3	4.5/11.3	2.3/5.6	2.3/5.8	3.3/8.1	3.6/8.9	4.5/11.3	4.5/11.3
9'-6"	Total Load	1,087	1,144	1,582	1,754	2,404	2,635	1,631	1,716	2,373	2,631	3,606	3,952
	Deflection L/240 / L/360	842/561	907/605	1,451/967	1,681/1,121	*/1,740	*/2,456	1,263/842	1,361/907	2,176/1,451	2,522/1,681	*/2,610	*/3,684
	Min. End/Int. Bearing (in.)	1.9/4.7	2.0/4.9	2.8/6.8	3.0/7.5	4.1/10.3	4.5/11.3	1.9/4.7	2.0/4.9	2.8/6.8	3.0/7.5	4.1/10.3	4.5/11.3
10'	Total Load	961	1,031	1,426	1,582	2,168	2,502	1,442	1,547	2,139	2,373	3,253	3,753
	Deflection L/240 / L/360	728/485	785/523	1,260/840	1,462/974	*/1,520	*/2,154	1,092/728	1,178/785	1,890/1,260	2,193/1,462	*/2,280	*/3,232
	Min. End/Int. Bearing (in.)	1.8/4.4	1.9/4.7	2.6/6.5	2.8/7.1	3.9/9.8	4.5/11.3	1.8/4.4	1.9/4.7	2.6/6.5	2.8/7.1	3.9/9.8	4.5/11.3
12'	Total Load	566	612	986	1,094	1,501	1,939	850	918	1,480	1,642	2,252	2,908
	Deflection L/240 / L/360	432/288	467/311	756/504	881/587	1,393/928	*/1,334	649/432	700/467	1,135/756	1,322/881	2,089/1,393	*/2,001
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.2/5.4	2.4/5.9	3.3/8.1	4.2/10.5	1.5/3.5	1.5/3.5	2.2/5.4	2.4/5.9	3.3/8.1	4.2/10.5
14'	Total Load	359	388	637	746	1,098	1,420	538	582	956	1,119	1,648	2,130
	Deflection L/240 / L/360	276/184	299/199	487/325	569/379	907/605	1,316/877	415/276	448/299	731/487	854/569	1,361/907	1,974/1,316
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.7/4.1	1.9/4.7	2.8/7.0	3.6/9.0	1.5/3.5	1.5/3.5	1.7/4.1	1.9/4.7	2.8/7.0	3.6/9.0
16'-6"	Total Load	218	236	392	460	744	1,017	327	354	588	690	1,116	1,526
	Deflection L/240 / L/360	171/114	185/123	303/202	354/236	569/379	832/555	256/171	277/185	455/303	532/354	854/569	1,248/832
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.6	3.1/7.7	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.6	3.1/7.7
18'-6"	Total Load	152	166	277	326	531	785	229	249	416	489	797	1,177
	Deflection L/240 / L/360	122/81	132/88	217/144	254/169	410/273	601/401	183/122	198/132	326/217	381/254	615/410	902/601
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5	2.7/6.7	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5	2.7/6.7
20'	Total Load	119	129	218	257	421	624	179	194	327	385	631	936
	Deflection L/240 / L/360	97/64	105/70	172/115	202/135	327/218	481/320	145/97	157/105	259/172	304/202	491/327	722/481
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.6/3.9	2.3/5.8	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.6/3.9	2.3/5.8
24'	Total Load	65	71	122	145	241	361	98	106	183	217	361	542
	Deflection L/240 / L/360	56/37	61/40	101/67	118/79	192/128	284/189	84/56	91/61	151/101	177/118	288/192	426/284
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.1	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.1
28'	Total Load			73	87	147	224	56	61	109	130	221	336
	Deflection L/240 / L/360			64/42	75/50	122/81	181/120	53/35	58/38	96/64	112/75	183/122	271/181
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5

* Indicates Total Load value controls.

NON-SNOW ROOF LOAD TABLES

How to Use This Table

1. Calculate total load (neglect beam weight) on the beam or header in pounds per linear foot (plf).
2. Select appropriate **Span** (center-to-center of bearing).
3. Scan horizontally to find the proper width, and a depth with a capacity that exceeds actual total load.
4. Review bearing length requirements to ensure adequacy.

Also see **General Notes** on page 31.

1.9E Microllam® LVL: Roof—Non-Snow Load Area 125% (PLF)

Span	Condition	1¾" Width							3½" Width (2 ply)					
		5½"	7¼"	9¼"	9½"	11¼"	11⅝"	14"	5½"	7¼"	9¼"	9½"	11¼"	11⅝"
6'	Total Load	451	954	1,285	1,329	1,656	1,781	1,961	902	1,908	2,571	2,659	3,313	3,563
	Deflection L/240	435	939	*	*	*	*	*	870	1,879	*	*	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	2.2/5.5	2.9/7.4	3.1/7.6	3.8/9.5	4.1/10.2	4.5/11.3	1.5/3.5	2.2/5.5	2.9/7.4	3.1/7.6	3.8/9.5	4.1/10.2
8'	Total Load	146	326	870	915	1,145	1,224	1,469	292	652	1,741	1,830	2,290	2,449
	Deflection L/240	*	*	833	896	*	*	*	*	*	1,666	1,792	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.7/6.7	2.8/7.0	3.5/8.8	3.8/9.4	4.5/11.3	1.5/3.5	1.5/3.5	2.7/6.7	2.8/7.0	3.5/8.8	3.8/9.4
9'-6"	Total Load	73	166	616	647	888	982	1,212	146	332	1,232	1,294	1,776	1,965
	Deflection L/240	*	*	516	556	*	*	*	*	*	1,032	1,112	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.2/5.6	2.4/5.9	3.2/8.1	3.6/8.9	4.4/11.0	1.5/3.5	1.5/3.5	2.2/5.6	2.4/5.9	3.2/8.1	3.6/8.9
10'	Total Load	59	135	555	583	801	886	1,137	118	270	1,110	1,167	1,602	1,772
	Deflection L/240	*	*	446	481	772	*	*	*	*	893	963	1,544	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.1/5.3	2.2/5.6	3.1/7.7	3.4/8.5	4.4/10.9	1.5/3.5	1.5/3.5	2.1/5.3	2.2/5.6	3.1/7.7	3.4/8.5
12'	Total Load		64	348	377	554	613	835	54	128	697	753	1,109	1,227
	Deflection L/240		*	265	286	463	540	*	*	*	530	572	927	1,080
	Min. End/Int. Bearing (in.)		1.5/3.5	1.6/4.0	1.7/4.4	2.6/6.4	2.8/7.1	3.9/9.6	1.5/3.5	1.5/3.5	1.6/4.0	1.7/4.4	2.6/6.4	2.8/7.1
14'	Total Load			221	239	392	449	611		66	443	479	785	898
	Deflection L/240			169	183	298	348	556		*	339	366	597	697
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	2.1/5.3	2.4/6.1	3.3/8.3		1.5/3.5	1.5/3.5	1.5/3.5	2.1/5.3	2.4/6.1
16'-6"	Total Load			135	146	242	283	438			270	292	484	567
	Deflection L/240			104	113	185	217	349			209	227	371	435
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.6/3.9	1.8/4.6	2.8/7.0			1.5/3.5	1.5/3.5	1.6/3.9	1.8/4.6
18'-6"	Total Load			95	103	171	201	328			190	206	343	403
	Deflection L/240			74	81	133	155	251			149	162	266	311
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.7	2.4/5.9			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.7
20'	Total Load			74	81	135	159	260			149	162	271	319
	Deflection L/240			59	64	106	124	200			119	128	212	248
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.1			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
22'	Total Load			55	59	101	119	195			110	119	202	238
	Deflection L/240			44	48	80	93	152			89	97	160	187
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
24'	Total Load					76	90	150			83	90	153	181
	Deflection L/240					61	72	117			69	75	123	145
	Min. End/Int. Bearing (in.)					1.5/3.5	1.5/3.5	1.5/3.6			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
26'	Total Load					59	70	117			63	69	118	140
	Deflection L/240					48	57	93			54	59	97	114
	Min. End/Int. Bearing (in.)					1.5/3.5	1.5/3.5	1.5/3.5			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5
28'	Total Load						55	92				53	93	110
	Deflection L/240						46	74				47	78	92
	Min. End/Int. Bearing (in.)						1.5/3.5	1.5/3.5				1.5/3.5	1.5/3.5	1.5/3.5
30'	Total Load							74					73	88
	Deflection L/240							61					63	75
	Min. End/Int. Bearing (in.)							1.5/3.5					1.5/3.5	1.5/3.5

* Indicates **Total Load** value controls.

NON-SNOW ROOF LOAD TABLES

General Notes

- Table is based on:
 - Uniform loads (beam weight considered).
 - More restrictive of simple or continuous span.
 - Deflection criteria of L/180 total load. For stiffer deflection criteria, use L/240 values for total load deflection.

Also see **How to Use This Table** on page 30 and **General Assumptions** on page 5.

1.9E Microllam® LVL: Roof—Non-Snow Load Area 125% (PLF) *continued*

Span	Condition	3½" Width (2-ply)				5¼" Width (3-ply)									
		14"	16"	18"	20"	5½"	7¼"	9¼"	9½"	11¼"	11½"	14"	16"	18"	20"
6'	Total Load	3,917	3,917	3,917	3,917	1,353	2,862	3,857	3,989	4,970	5,345	5,875	5,875	5,875	5,875
	Deflection L/240	*	*	*	*	1,305	2,819	*	*	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	4.5/11.3	4.5/11.3	4.5/11.3	4.5/11.3	1.5/3.5	2.2/5.5	2.9/7.4	3.1/7.6	3.8/9.5	4.1/10.2	4.5/11.3	4.5/11.3	4.5/11.3	4.5/11.3
8'	Total Load	2,932	2,932	2,932	2,932	438	978	2,611	2,745	3,435	3,673	4,399	4,399	4,399	4,399
	Deflection L/240	*	*	*	*	*	*	2,499	2,688	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	4.5/11.3	4.5/11.3	4.5/11.3	4.5/11.3	1.5/3.5	1.5/3.5	2.7/6.7	2.8/7.0	3.5/8.8	3.8/9.4	4.5/11.3	4.5/11.3	4.5/11.3	4.5/11.3
9'-6"	Total Load	2,425	2,466	2,466	2,466	219	498	1,847	1,942	2,664	2,948	3,637	3,699	3,699	3,699
	Deflection L/240	*	*	*	*	*	*	1,548	1,669	*	*	*	*	*	*
	Min. End/Int. Bearing (in.)	4.4/11.0	4.5/11.3	4.5/11.3	4.5/11.3	1.5/3.5	1.5/3.5	2.2/5.6	2.4/5.9	3.2/8.1	3.6/8.9	4.4/11.0	4.5/11.3	4.5/11.3	4.5/11.3
10'	Total Load	2,275	2,342	2,342	2,342	177	406	1,666	1,751	2,403	2,659	3,412	3,513	3,513	3,513
	Deflection L/240	*	*	*	*	*	*	1,339	1,444	2,317	*	*	*	*	*
	Min. End/Int. Bearing (in.)	4.4/10.9	4.5/11.3	4.5/11.3	4.5/11.3	1.5/3.5	1.5/3.5	2.1/5.3	2.2/5.6	3.1/7.7	3.4/8.5	4.4/10.9	4.5/11.2	4.5/11.2	4.5/11.2
12'	Total Load	1,670	1,948	1,948	1,948	82	193	1,046	1,130	1,663	1,840	2,505	2,922	2,922	2,922
	Deflection L/240	*	*	*	*	*	*	795	859	1,391	1,620	*	*	*	*
	Min. End/Int. Bearing (in.)	3.9/9.6	4.5/11.3	4.5/11.3	4.5/11.3	1.5/3.5	1.5/3.5	1.6/4.0	1.7/4.4	2.6/6.4	2.8/7.1	3.9/9.6	4.5/11.2	4.5/11.2	4.5/11.2
14'	Total Load	1,223	1,571	1,667	1,667		100	664	719	1,178	1,347	1,835	2,356	2,500	2,500
	Deflection L/240	1,112	*	*	*		*	509	550	896	1,046	1,669	*	*	*
	Min. End/Int. Bearing (in.)	3.3/8.3	4.2/10.6	4.5/11.3	4.5/11.3		1.5/3.5	1.5/3.5	1.5/3.5	2.1/5.3	2.4/6.1	3.3/8.3	4.2/10.6	4.5/11.2	4.5/11.2
16'-6"	Total Load	876	1,126	1,411	1,411			405	439	726	851	1,315	1,689	2,107	2,117
	Deflection L/240	698	1,020	*	*			314	340	557	652	1,047	1,530	*	*
	Min. End/Int. Bearing (in.)	2.8/7.0	3.6/9.0	4.5/11.3	4.5/11.3			1.5/3.5	1.5/3.5	1.6/3.9	1.8/4.6	2.8/7.0	3.6/9.0	4.5/11.2	4.5/11.2
18'-6"	Total Load	656	892	1,113	1,256			285	309	515	605	984	1,339	1,670	1,884
	Deflection L/240	502	737	1,030	*			224	243	399	467	754	1,106	1,545	*
	Min. End/Int. Bearing (in.)	2.4/5.9	3.2/8.0	4.0/10.0	4.5/11.3			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.7	2.4/5.9	3.2/8.0	4.0/10.0	4.5/11.2
20'	Total Load	520	761	950	1,158			224	243	406	478	781	1,142	1,425	1,737
	Deflection L/240	401	590	826	1,112			178	193	318	372	602	885	1,239	1,669
	Min. End/Int. Bearing (in.)	2.0/5.1	3.0/7.4	3.7/9.2	4.5/11.2			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.1	3.0/7.4	3.7/9.2	4.5/11.2
22'	Total Load	391	581	782	954			165	179	303	357	586	872	1,173	1,431
	Deflection L/240	304	448	629	850			134	145	240	281	456	672	944	1,275
	Min. End/Int. Bearing (in.)	1.7/4.2	2.5/6.3	3.4/8.4	4.1/10.2			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	2.5/6.3	3.4/8.4	4.1/10.2
24'	Total Load	300	448	635	798			124	135	230	272	450	672	952	1,197
	Deflection L/240	235	348	490	663			104	112	185	218	353	522	735	995
	Min. End/Int. Bearing (in.)	1.5/3.6	2.1/5.3	3.0/7.5	3.7/9.4			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.1/5.3	3.0/7.5	3.7/9.4
26'	Total Load	234	351	499	677			95	103	178	211	351	527	749	1,015
	Deflection L/240	186	275	388	527			82	88	146	172	279	413	583	790
	Min. End/Int. Bearing (in.)	1.5/3.5	1.8/4.6	2.6/6.4	3.5/8.6			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.6	2.6/6.4	3.5/8.6
28'	Total Load	185	279	399	547			73	80	139	166	278	419	599	820
	Deflection L/240	149	222	313	425			65	71	117	138	224	333	470	638
	Min. End/Int. Bearing (in.)	1.5/3.5	1.6/3.9	2.2/5.6	3.0/7.6			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.6/3.9	2.2/5.6	3.0/7.6
30'	Total Load	148	225	323	444			57	62	110	132	223	338	484	666
	Deflection L/240	122	181	256	348			53	58	95	112	183	271	384	522
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.0/4.9	2.7/6.6			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.0/4.9	2.7/6.6

* Indicates Total Load value controls.

NON-SNOW ROOF LOAD TABLES

How to Use This Table

1. Calculate total load (neglect beam weight) on the beam or header in pounds per linear foot (plf).
2. Select appropriate **Span** (center-to-center of bearing).
3. Scan horizontally to find the proper width, and a depth with a capacity that exceeds actual total load.
4. Review bearing length requirements to ensure adequacy.

Also see **General Notes** on page 33.

2.OE Parallam® PSL: Roof—Non-Snow Load Area 125% (PLF)

Span	Condition	3½" Width							5¼" Width						
		9¼"	9½"	11¼"	11½"	14"	16"	18"	9¼"	9½"	11¼"	11½"	14"	16"	18"
8'	Total Load	1,839	1,899	2,330	2,491	2,933	2,933	2,933	2,759	2,848	3,494	3,737	4,400	4,400	4,400
	Deflection L/240	1,753	1,886	*	*	*	*	*	2,630	2,830	*	*	*	*	*
	Min. End/Int. Bearing (in.)	2.8/7.0	2.9/7.3	3.6/8.9	3.8/9.5	4.5/11.3	4.5/11.3	4.5/11.3	2.8/7.0	2.9/7.3	3.6/8.9	3.8/9.5	4.5/11.3	4.5/11.3	4.5/11.3
9'-6"	Total Load	1,365	1,436	1,890	2,017	2,467	2,467	2,467	2,048	2,154	2,836	3,025	3,700	3,700	3,700
	Deflection L/240	1,086	1,171	1,872	*	*	*	*	1,630	1,757	2,808	*	*	*	*
	Min. End/Int. Bearing (in.)	2.5/6.2	2.6/6.5	3.4/8.6	3.7/9.2	4.5/11.3	4.5/11.3	4.5/11.3	2.5/6.2	2.6/6.5	3.4/8.6	3.7/9.2	4.5/11.3	4.5/11.3	4.5/11.3
10'	Total Load	1,231	1,295	1,778	1,896	2,314	2,342	2,342	1,847	1,942	2,668	2,844	3,471	3,514	3,514
	Deflection L/240	940	1,013	1,626	1,886	*	*	*	1,410	1,520	2,439	2,830	*	*	*
	Min. End/Int. Bearing (in.)	2.4/5.9	2.5/6.2	3.4/8.5	3.6/9.1	4.4/11.1	4.5/11.3	4.5/11.3	2.4/5.9	2.5/6.2	3.4/8.5	3.6/9.1	4.4/11.1	4.5/11.3	4.5/11.3
12'	Total Load	734	793	1,235	1,369	1,854	1,949	1,949	1,101	1,190	1,853	2,053	2,781	2,923	2,923
	Deflection L/240	558	602	976	1,137	1,797	*	*	837	904	1,464	1,706	2,696	*	*
	Min. End/Int. Bearing (in.)	1.7/4.3	1.8/4.6	2.9/7.1	3.2/7.9	4.3/10.7	4.5/11.3	4.5/11.3	1.7/4.3	1.8/4.6	2.9/7.1	3.2/7.9	4.3/10.7	4.5/11.3	4.5/11.3
14'	Total Load	466	504	826	966	1,370	1,667	1,667	699	756	1,240	1,449	2,055	2,501	2,501
	Deflection L/240	357	386	629	734	1,171	*	*	535	579	943	1,102	1,757	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.2/5.6	2.6/6.5	3.7/9.2	4.5/11.3	4.5/11.3	1.5/3.5	1.5/3.5	2.2/5.6	2.6/6.5	3.7/9.2	4.5/11.3	4.5/11.3
16'-6"	Total Load	284	308	509	597	965	1,266	1,412	426	462	764	896	1,447	1,899	2,118
	Deflection L/240	220	238	391	457	735	1,074	*	331	358	587	686	1,103	1,611	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.6/4.1	1.9/4.8	3.1/7.7	4.0/10.1	4.5/11.3	1.5/3.5	1.5/3.5	1.6/4.1	1.9/4.8	3.1/7.7	4.0/10.1	4.5/11.3
18'-6"	Total Load	200	217	361	424	690	1,003	1,256	300	325	542	637	1,035	1,505	1,884
	Deflection L/240	157	170	280	328	529	776	1,084	236	256	420	492	794	1,164	1,626
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.9	2.5/6.2	3.6/9.0	4.5/11.3	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.9	2.5/6.2	3.6/9.0	4.5/11.3
20'	Total Load	157	170	285	335	548	810	1,071	235	255	427	503	822	1,216	1,607
	Deflection L/240	125	135	223	261	422	621	869	188	203	334	392	633	931	1,304
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.1/5.4	3.2/7.9	4.2/10.4	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.1/5.4	3.2/7.9	4.2/10.4
22'	Total Load	115	126	212	250	411	611	863	173	189	318	375	617	917	1,295
	Deflection L/240	94	102	168	197	320	472	662	141	153	252	296	480	708	994
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5	2.6/6.6	3.7/9.3	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5	2.6/6.6	3.7/9.3
24'	Total Load	87	95	161	191	315	471	668	130	142	242	286	473	707	1,002
	Deflection L/240	73	79	130	153	248	366	515	109	118	195	229	372	550	773
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.8	2.2/5.6	3.1/7.9	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.8	2.2/5.6	3.1/7.9
26'	Total Load	66	72	124	148	246	369	525	100	109	187	222	369	554	788
	Deflection L/240	57	62	102	120	196	290	409	86	93	154	181	294	435	613
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.9/4.8	2.7/6.8	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.9/4.8	2.7/6.8
28'	Total Load	51	56	97	116	195	294	420	77	84	146	174	292	441	630
	Deflection L/240	46	50	82	97	157	233	329	69	75	123	145	236	350	494
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	2.3/5.9	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	2.3/5.9
30'	Total Load			77	92	156	236	339	60	65	116	138	234	355	509
	Deflection L/240			67	79	128	190	269	56	61	101	118	193	286	404
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.1/5.1	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.1/5.1
32'	Total Load			61	74	126	192	277		51	92	111	189	289	416
	Deflection L/240			55	65	106	157	223		50	83	97	159	236	334
	Min. End/Int. Bearing (in.)			1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5		1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5

* Indicates **Total Load** value controls.

NON-SNOW ROOF LOAD TABLES

General Notes

- Table is based on:
 - Uniform loads (beam weight considered).
 - More restrictive of simple or continuous span.
 - Deflection criteria of L/180 total load. For stiffer deflection criteria, use L/240 values for total load deflection.

Also see **How to Use This Table** on page 32 and **General Assumptions** on page 5.

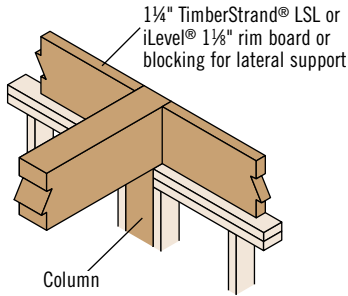
2.0E Parallam® PSL: Roof—Non-Snow Load Area 125% (PLF) *continued*

Span	Condition	7" Width						
		9¼"	9½"	11¼"	11½"	14"	16"	18"
8'	Total Load	3,679	3,798	4,660	4,983	5,866	5,866	5,866
	Deflection L/240	3,507	3,773	*	*	*	*	*
	Min. End/Int. Bearing (in.)	2.8/7.0	2.9/7.3	3.6/8.9	3.8/9.5	4.5/11.3	4.5/11.3	4.5/11.3
9'-6"	Total Load	2,731	2,872	3,781	4,034	4,934	4,934	4,934
	Deflection L/240	2,173	2,342	3,745	*	*	*	*
	Min. End/Int. Bearing (in.)	2.5/6.2	2.6/6.5	3.4/8.6	3.7/9.2	4.5/11.3	4.5/11.3	4.5/11.3
10'	Total Load	2,462	2,590	3,557	3,792	4,628	4,685	4,685
	Deflection L/240	1,880	2,027	3,252	3,773	*	*	*
	Min. End/Int. Bearing (in.)	2.4/5.9	2.5/6.2	3.4/8.5	3.6/9.1	4.4/11.1	4.5/11.3	4.5/11.3
12'	Total Load	1,468	1,586	2,471	2,738	3,708	3,898	3,898
	Deflection L/240	1,116	1,205	1,953	2,274	3,595	*	*
	Min. End/Int. Bearing (in.)	1.7/4.3	1.8/4.6	2.9/7.1	3.2/7.9	4.3/10.7	4.5/11.3	4.5/11.3
14'	Total Load	932	1,008	1,653	1,933	2,741	3,335	3,335
	Deflection L/240	714	772	1,258	1,469	2,342	*	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	2.2/5.6	2.6/6.5	3.7/9.2	4.5/11.3	4.5/11.3
16'-6"	Total Load	569	616	1,019	1,195	1,930	2,532	2,824
	Deflection L/240	441	477	782	915	1,470	2,148	*
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.6/4.1	1.9/4.8	3.1/7.7	4.0/10.1	4.5/11.3
18'-6"	Total Load	400	434	723	849	1,381	2,007	2,512
	Deflection L/240	315	341	560	656	1,058	1,553	2,168
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.9	2.5/6.2	3.6/9.0	4.5/11.3
20'	Total Load	314	340	570	671	1,096	1,621	2,143
	Deflection L/240	250	271	446	523	845	1,242	1,739
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	2.1/5.4	3.2/7.9	4.2/10.4
22'	Total Load	231	252	425	501	823	1,223	1,727
	Deflection L/240	189	204	337	395	640	944	1,325
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5	2.6/6.6	3.7/9.3
24'	Total Load	174	190	323	382	631	942	1,336
	Deflection L/240	146	158	260	306	496	733	1,031
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.8	2.2/5.6	3.1/7.9
26'	Total Load	133	145	249	296	492	739	1,051
	Deflection L/240	115	124	205	241	392	580	818
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.9/4.8	2.7/6.8
28'	Total Load	102	112	195	232	390	588	840
	Deflection L/240	92	100	165	194	315	467	659
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.7/4.2	2.3/5.9
30'	Total Load	80	87	154	184	312	473	679
	Deflection L/240	75	81	134	158	257	381	539
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.6	2.1/5.1
32'	Total Load	62	68	123	148	253	385	555
	Deflection L/240	62	67	111	130	212	315	446
	Min. End/Int. Bearing (in.)	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.5/3.5	1.8/4.5

* Indicates **Total Load** value controls.

BEAM DETAILS

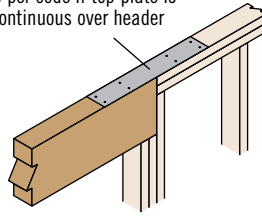
Bearing at Wall



L1

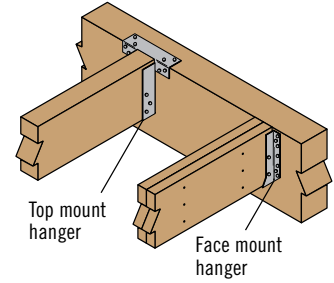
Bearing for Door or Window Header

Strap per code if top plate is not continuous over header



L2

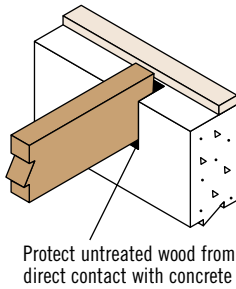
Beam to Beam Connection



L3

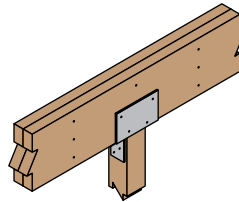
See Framing Connectors on pages 40 and 41

Bearing at Concrete Wall



L4

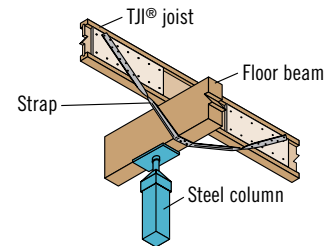
Bearing at Column



L5

Verify beam bearing length on page 36 and column capacity on page 42

Beam to Column Lateral Brace



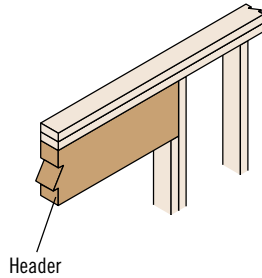
L14

Suggested lateral bracing detail for beams when required. Verify beam bearing length on page 36.

WINDOW AND DOOR HEADER DETAILS

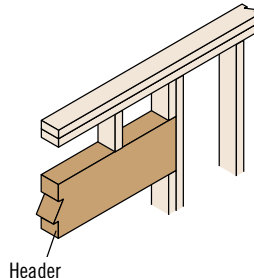
2x4 Wall Framing

Full Depth Header



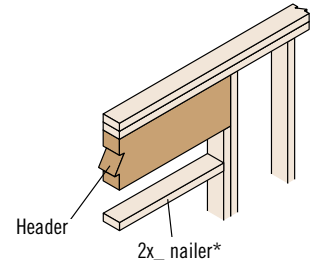
L7

Low Header



L8

High Header



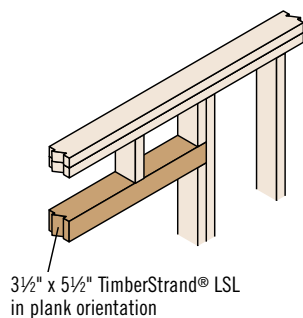
L9

*Double nailer may be required depending upon the opening size and window type

2x6 Wall Framing

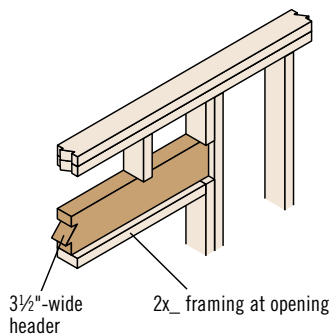
Headers not matching wall thickness may be installed flush to the inside or outside of the wall, depending upon sheathing and trim attachment requirements

Plank Orientation Header



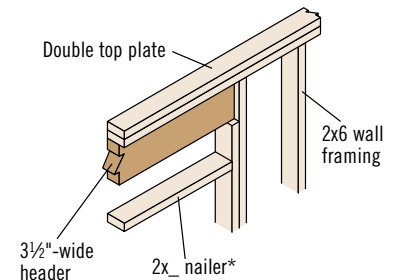
L10

Low Header



L11

High Header



L12

*Double nailer may be required depending upon the opening size and window type

WINDOW AND DOOR HEADER DETAILS

Dropped Header with Full Lateral Bracing

One 8d (0.113" x 2½") nail each side of joist or blocking. Blocking is required if joist framing is parallel to beam. Joist spacing must be 24" on-center or less.

Nail continuous king studs to the end of the beam using:

- Four 10d (0.131" x 3") nails for beams 11⅞" deep or less
- Six 10d (0.131" x 3") nails for beams 18" deep or less
- Eight 10d (0.131" x 3") nails for beams greater than 18" deep

Continuous king stud

Framing above must be sheathed to provide lateral stability to the top of the beam

Main structural header. See pages 38 and 39 for connection of multiple plies.

Low header

Fasten 2x₆ plate to low header with 10d (0.131" x 3") nails at 8" on-center, staggered

L15

Dropped Header with Acceptable Lateral Bracing

One 8d (0.113" x 2½") nail each side of joist or blocking. Blocking is required if joist framing is parallel to beam. Joist spacing must be 24" on-center or less.

Nail continuous king studs to the end of the beam using:

- Four 10d (0.131" x 3") nails for beams 11⅞" deep or less
- Six 10d (0.131" x 3") nails for beams 16" deep or less

Continuous king stud

Sheathing strength axis

4'-0" maximum height cripple wall. Wall studs at 24" on-center, maximum.

Fasten 2x₆ plate to header below with 10d (0.131" x 3") nails at 8" on-center, staggered

See pages 38 and 39 for connection of multiple plies

Rated wall sheathing (7/16" nominal) continuous from bottom of beam to top of wall. Connect sheathing with 8d (0.113" x 2½") nails at 6" on-center at panel edges and 12" on-center in panel field.

L16

When framed as shown above, the following dropped headers are considered fully braced under uniform-load, simple-span conditions:

Single-ply:

- 1¾" wide headers, 11⅞" deep or less
- 3½" wide headers, 16" deep or less, with a maximum span of 18'-6"

Multiple-ply:

- Headers up to four 1¾" plies, 11⅞" deep or less
- Headers up to four 1¾" x 14" plies, with a maximum span of 8'-6"

NAILING ON NARROW FACE

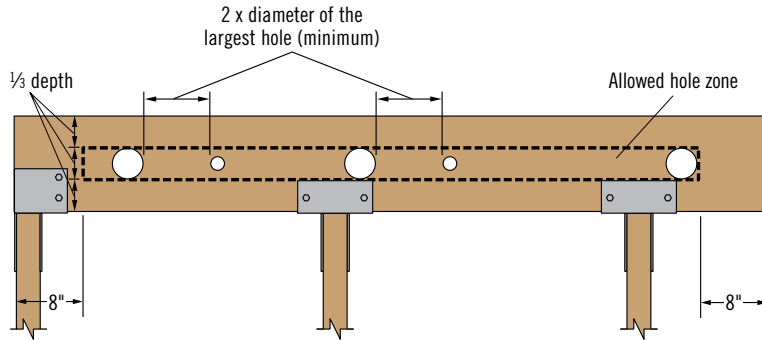
Nails Installed on the Narrow Face

Nail Size	Closest On-Center Spacing Per Row			
	1¾" TimberStrand® LSL	3½" TimberStrand® LSL	Microllam® LVL	Parallam® PSL
8d (0.131" x 2½") or 10d (0.128" x 3")	3"	3"	3"	3"
10d (0.148" x 3") or 12d (0.148" x 3¼")	4"	3"	4"	4"
16d (0.162" x 3½")	6"	3½"	8"	6"

- If more than one row of nails is used, the rows must be offset at least ½" and staggered.

ALLOWABLE HOLES

1.55E TimberStrand® LSL Headers and Beams



General Notes

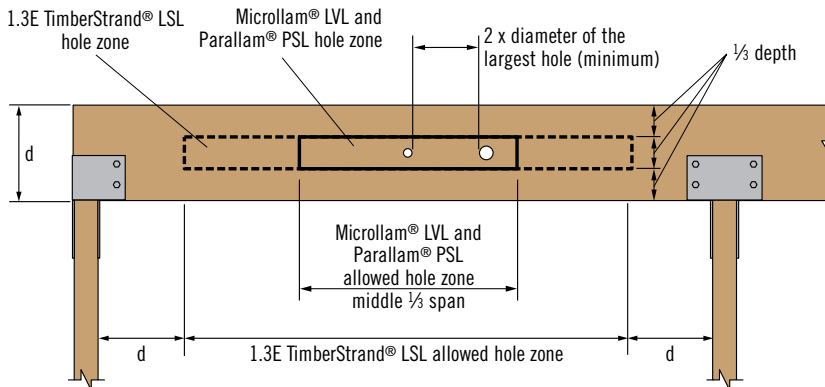
- Allowed hole zone suitable for headers and beams with **uniform and/or concentrated loads** anywhere along the member.
- Round holes only.
- No holes in headers or beams in plank orientation.

1.55E TimberStrand® LSL

Header or Beam Depth	Maximum Round Hole Size
9 1/4"–9 1/2"	3"
11 1/4"–11 1/6"	3 3/8"
14"–16"	4 3/8"

- See illustration for allowed hole zone.

Other iLevel® Trus Joist® Headers and Beams



DO NOT cut, notch, or drill holes in headers or beams except as indicated in the illustrations and tables

General Notes

- Allowed hole zone suitable for headers and beams with **uniform loads only**.
- Round holes only.
- No holes in cantilevers.
- No holes in headers or beams in plank orientation.

Other iLevel® Beams

Header or Beam Depth	Maximum Round Hole Size
4 3/8"	1"
5 1/2"	1 3/4"
7 1/4"–20"	2"

- See illustration for allowed hole zone.

BEARING LENGTH REQUIREMENTS

Reaction (lbs)	1.3E TimberStrand® LSL		1.55E TimberStrand® LSL			1.9E Microllam® LVL			2.0E Parallam® PSL		
	Beam Orientation		Beam Orientation			Beam Orientation			Beam Orientation		
	Width	Width	Width			Width			Width		
	3 1/2"	5 1/2"	1 3/4"	3 1/2"	5 1/4"	1 3/4"	3 1/2"	5 1/4"	3 1/2"	5 1/4"	7"
2,000	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 3/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
4,000	1 3/4"	1 3/4"	3"	1 1/2"	1 1/2"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 1/2"	1 1/2"
6,000	2 3/4"	2 3/4"	4 1/2"	2 1/4"	1 1/2"	4 3/4"	2 1/2"	1 3/4"	2 1/2"	1 3/4"	1 1/2"
8,000	3 1/2"	3 1/2"	5 3/4"	3"	2"	6 1/4"	3 1/4"	2 1/4"	3 1/4"	2 1/4"	1 3/4"
10,000	4 1/4"	4 1/4"	7 1/4"	3 3/4"	2 1/2"	7 3/4"	4"	2 3/4"	4"	2 3/4"	2"
12,000	5 1/4"	5 1/4"		4 1/2"	3"		4 3/4"	3 1/4"	4 3/4"	3 1/4"	2 1/2"
14,000	6"	6"		5"	3 1/2"		5 1/2"	3 3/4"	5 1/2"	3 3/4"	2 3/4"
16,000	6 3/4"	6 3/4"		5 3/4"	4"		6 1/4"	4 1/4"	6 1/4"	4 1/4"	3 1/4"
18,000	7 3/4"	7 3/4"		6 1/2"	4 1/2"		7"	4 3/4"	7"	4 3/4"	3 1/2"
20,000				7 1/4"	5"		7 3/4"	5 1/4"	7 3/4"	5 1/4"	4"
22,000				8"	5 1/4"			5 3/4"		5 3/4"	4 1/4"
24,000					5 3/4"			6 1/4"		6 1/4"	4 3/4"
26,000					6 1/4"			6 3/4"		6 3/4"	5"
28,000					6 3/4"			7 1/4"		7 1/4"	5 1/2"
30,000					7 1/4"			7 3/4"		7 3/4"	5 3/4"

General Notes

- Minimum bearing length:** 1 1/2" at ends, 3 1/2" at intermediate supports.
- Bearing across full beam width required.
- Interpolation between reaction loads is permitted for determining bearing lengths.
- Bearing lengths based on the following bearing stresses:
 - 1.3E TimberStrand® LSL: 680 psi; 435 psi for plank orientation.
 - 1.55E TimberStrand® LSL: 800 psi.
 - 1.9E Microllam® LVL: 750 psi.
 - 2.0E Parallam® PSL: 750 psi.

TAPERED END CUTS

Allowable Reactions for 3½" (1) TimberStrand® LSL Headers and Beams (lbs)

Bearing	Beam Depth	Outside Heel Height D ₁							
		4½"	5"	5½"	6"	6½"	7"	7½"	8"
3½" Wood Plate ⁽²⁾	7¼"-9¼"	4,860	5,205	5,205	5,205	5,205	5,205	5,205	5,205
	9½"	4,860	5,205	5,205	5,205	5,205	5,205	5,205	5,205
	11¼"	4,860	5,205	5,205	5,205	5,205	5,205	5,205	5,205
	11½"	4,860	5,205	5,205	5,205	5,205	5,205	5,205	5,205
	14"		5,205	5,205	5,205	5,205	5,205	5,205	5,205
	16"				5,205	5,205	5,205	5,205	5,205
5¼" Wood Plate ⁽²⁾	7¼"	6,765	6,765	6,765					
	8½"	6,780	7,365	7,810	7,810	7,810	7,810		
	9¼"	5,255	5,710	6,160	6,610	6,690	6,690		
	9½"	5,255	5,710	6,160	6,610	6,870	6,870	6,870	6,870
	11¼"	5,255	5,710	6,160	6,610	7,065	7,515	7,810	7,810
	11½"-14"	5,255	5,710	6,160	6,610	7,065	7,515	7,810	7,810
3½" Column ⁽³⁾	16"			6,160	6,610	7,065	7,515	7,810	7,810
	7¼"	6,270	6,765	6,765	6,765				
	8½"	6,270	6,855	7,435	8,020	8,050	8,050	8,050	
	9¼"	4,860	5,310	5,765	6,215	6,670	6,690	6,690	6,690
	9½"	4,860	5,310	5,765	6,215	6,670	6,870	6,870	6,870
	11¼"	4,860	5,310	5,765	6,215	6,670	7,120	7,570	8,025
	11½"	4,860	5,310	5,765	6,215	6,670	7,120	7,570	8,025
	14"		5,310	5,765	6,215	6,670	7,120	7,570	8,025

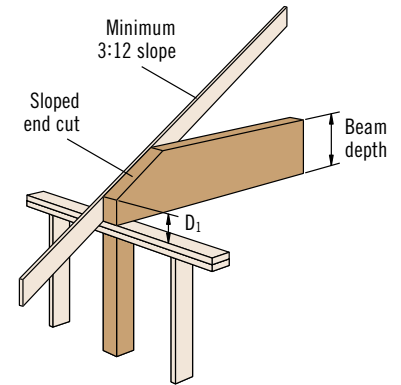
(1) For 1¾" and 5¼" beams, multiply by 0.5 and 1.5, respectively.

(2) Bearing lengths, based on F_{c⊥} of 425 psi.

(3) Bearing lengths based on F_{c⊥} of 680 psi for 1.3E TimberStrand® LSL and 800 psi for 1.55E TimberStrand® LSL.

General Notes

- No increase for duration of load is permitted.
- No holes or concentrated load within tapered cut.
- Table considers only downward loading. Contact your iLevel representative for assistance with uplift loading or other conditions.



Tapered end cut detailed above is not allowed with TJJ® joists

Allowable Reactions for 3½" (1) Microllam® LVL and Parallam® PSL Beams (lbs)

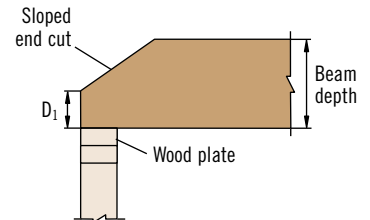
Bearing	Beam Depth	Outside Heel Height D ₁							
		4½"	5"	5½"	6"	6½"	7"	7½"	8"
3½" Wood Plate ⁽²⁾	7¼"	4,470	4,820	4,820	4,820				
	9¼"	4,470	4,885	5,205	5,205	5,205	5,205	5,205	5,205
	9½"	4,470	4,885	5,205	5,205	5,205	5,205	5,205	5,205
	11¼"	4,470	4,885	5,205	5,205	5,205	5,205	5,205	5,205
	11½"	4,470	4,885	5,205	5,205	5,205	5,205	5,205	5,205
	14"		4,885	5,205	5,205	5,205	5,205	5,205	5,205
	16"				5,205	5,205	5,205	5,205	5,205
	18"					5,205	5,205	5,205	5,205
5¼" Wood Plate ⁽²⁾	20"							5,205	5,205
	7¼"	4,820	4,820	4,820					
	9¼"	4,830	5,245	5,665	6,080	6,150	6,150	6,150	
	9½"	4,830	5,245	5,665	6,080	6,320	6,320	6,320	
	11¼"	4,830	5,245	5,665	6,080	6,495	6,910	7,325	7,480
	11½"	4,830	5,245	5,665	6,080	6,495	6,910	7,325	7,740
	14"	4,830	5,245	5,665	6,080	6,495	6,910	7,325	7,740
	16"			5,665	6,080	6,495	6,910	7,325	7,740
3½" Column ⁽³⁾	18"				6,080	6,495	6,910	7,325	7,740
	20"					6,910	7,325	7,740	7,810
	7¼"	4,470	4,820	4,820	4,820				
	9¼"	4,470	4,885	5,300	5,715	6,130	6,150	6,150	6,150
	9½"	4,470	4,885	5,300	5,715	6,130	6,320	6,320	6,320
	11¼"	4,470	4,885	5,300	5,715	6,130	6,545	6,960	7,375
	11½"	4,470	4,885	5,300	5,715	6,130	6,545	6,960	7,375
	14"		4,885	5,300	5,715	6,130	6,545	6,960	7,375
	16"				5,715	6,130	6,545	6,960	7,375
	18"					6,130	6,545	6,960	7,375
	20"						6,960	7,375	9,040
								6,960	7,375

(1) For 1¾", 5¼", and 7" beams, multiply by 0.5, 1.5, and 2.0, respectively.

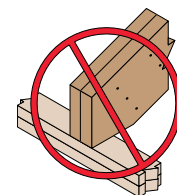
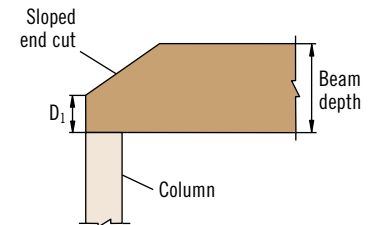
(2) Bearing lengths based on F_{c⊥} of 425 psi.

(3) Bearing lengths based on F_{c⊥} of 750 psi.

Wood Plate Connection





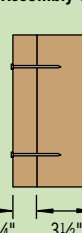

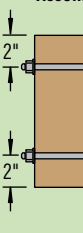
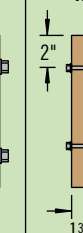
Column Connection



DO NOT overhang seat cuts on beams beyond inside face of support member

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

L17 Uniform Load—Maximum Uniform Load Applied to Either Outside Member (PLF)

Connector Type	Number of Rows	Connector On-Center Spacing	Connector Pattern					
			Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
								
			3 1/2" wide, 2-ply	5 1/4" wide, 3-ply	5 1/4" wide, 2-ply	7" wide, 3-ply	7" wide, 2-ply	7" wide, 4-ply
10d (0.128" x 3") Nail ⁽¹⁾	2	12"	370	280	280	245		
	3	12"	555	415	415	370		
1/2" A307 Through Bolts ⁽²⁾⁽³⁾	2	24"	505	380	520	465	860	340
		19.2"	635	475	655	580	1,075	425
		16"	760	570	785	695	1,290	505
SDS 1/4" x 3 1/2" ⁽³⁾	2	24"	680	510	510	455		
		19.2"	850	640	640	565		
		16"	1,020	765	765	680		
SDS 1/4" x 6" ⁽³⁾	2	24"				455	465	455
		19.2"				565	580	565
		16"				680	695	680
USP WS35 ⁽³⁾	2	24"	480	360	360	320		
		19.2"	600	450	450	400		
		16"	715	540	540	480		
USP WS6 ⁽³⁾	2	24"				350	525	350
		19.2"				440	660	440
		16"				525	790	525
3 3/8" TrussLok ⁽³⁾	2	24"	635	475	475	425		
		19.2"	795	595	595	530		
		16"	955	715	715	635		
5" TrussLok ⁽³⁾	2	24"		500	500	445	480	445
		19.2"		625	625	555	600	555
		16"		750	750	665	725	665
6 3/4" TrussLok ⁽³⁾	2	24"				445	620	445
		19.2"				555	770	555
		16"				665	925	665
3 3/8" SDW22 ⁽³⁾	2	24"	800	600	600	535		
		19.2"	1000	750	750	665		
		16"	1200	900	900	800		
5" SDW22 ⁽³⁾	2	24"		450	600	535	600	535
		19.2"		565	750	665	750	665
		16"		675	900	800	900	800
6 3/4" SDW22 ⁽³⁾	2	24"				400	800	400
		19.2"				500	1,000	500
		16"				600	1,200	600

(1) Nailed connection values may be doubled for 6" on-center or tripled for 4" on-center nail spacing.

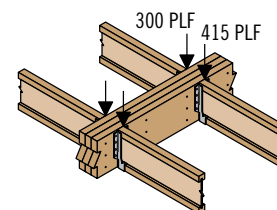
(2) Washers required. Bolt holes to be 3/16" maximum.

(3) 24" on-center bolted and screwed connection values may be doubled for 12" on-center spacing.

General Notes

- Connections are based on NDS® 2005 or manufacturer's test or code reports.
- Use specific gravity of 0.5 when designing lateral connections.
- Values listed are for 100% stress level. Increase 15% for snow-loaded roof conditions or 25% for non-snow roof conditions, where code allows.
- Bold Italic** cells indicate **Connector Pattern** must be installed on both sides. Stagger fasteners on opposite side of beam by 1/2 the required **Connector Spacing**.
- Verify adequacy of beam in allowable load tables on pages 16–33.
- 7" wide beams should be side-loaded only when loads are applied to both sides of the members (to minimize rotation).
- Minimum end distance for bolts and screws is 6".
- Beams wider than 7" require special consideration by the design professional.

Uniform Load Design Example

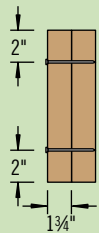

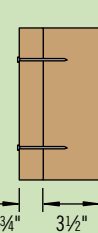
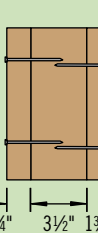
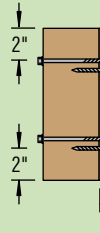
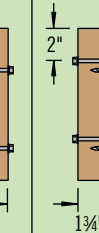


First, check the allowable load tables on pages 16–33 to verify that three pieces can carry the total load of 715 plf with proper live load deflection criteria. Maximum load applied to either outside member is 415 plf. For a 3-ply, 1 3/4" assembly, two rows of 10d (0.128" x 3") nails at 12" on-center is good for only 280 plf. Therefore, use three rows of 10d (0.128" x 3") nails at 12" on-center (good for 415 plf).

Alternative: Two rows of 1/2" bolts or 1/4" x 3 1/2" SDS screws at 19.2" on-center.

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

L18 Point Load—Maximum Point Load Applied to Either Outside Member (lbs)

Connector Type	Number of Connectors	Connector Pattern					
		Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
							
		3 1/2" wide, 2-ply	5 1/4" wide, 3-ply	5 1/4" wide, 2-ply	7" wide, 3-ply	7" wide, 2-ply	7" wide, 4-ply
10d (0.128" x 3") Nail	6	1,110	835	835	740		
	12	2,225	1,670	1,670	1,485		
	18	3,335	2,505	2,505	2,225		
	24	4,450	3,335	3,335	2,965		
SDS Screws 1/4" x 3 1/2" or WS35 1/4" x 6" or WS6	4	1,915	1,435 ⁽¹⁾	1,435	1,275	1,860 ⁽²⁾	1,405 ⁽²⁾
	6	2,870	2,150 ⁽¹⁾	2,150	1,915	2,785 ⁽²⁾	2,110 ⁽²⁾
	8	3,825	2,870 ⁽¹⁾	2,870	2,550	3,715 ⁽²⁾	2,810 ⁽²⁾
3 3/8", 5", or 6 3/4" TrussLok™	4	2,545	1,910 ⁽¹⁾	1,910	1,695	1,925 ⁽³⁾	1,775 ⁽³⁾
	6	3,815	2,860 ⁽¹⁾	2,860	2,545	2,890 ⁽³⁾	2,665 ⁽³⁾
	8	5,090	3,815 ⁽¹⁾	3,815	3,390	3,855 ⁽³⁾	3,550 ⁽³⁾
3 3/8", 5", or 6 3/4" SDW22	4	3,200	1,800 ⁽¹⁾	2,400	1,600 ⁽⁴⁾	2,400 ⁽³⁾	1,600 ⁽⁵⁾
	6	4,800	2,700 ⁽¹⁾	3,600	2,400 ⁽⁴⁾	3,600 ⁽³⁾	2,400 ⁽⁵⁾
	8	6,400	3,600 ⁽¹⁾	4,800	3,200 ⁽⁴⁾	4,800 ⁽³⁾	3,200 ⁽⁵⁾

(1) 3 1/2" and 3 3/8" long screws must be installed on both sides.

(2) Minimum 6" long screws required.

(3) Minimum 5" long screws required.

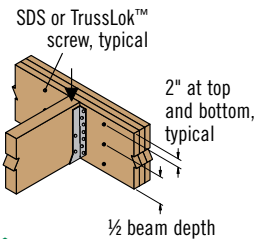
(4) 3 3/8" and 5" long screws must be installed on both sides.

(5) 6 3/4" long screws installed from one side or 5" screws installed from both sides.

See General Notes on page 38

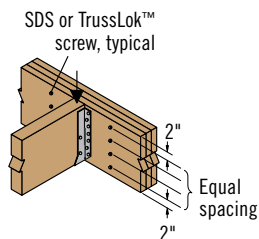
Point Load Connections

4- or 6-Screw Connection



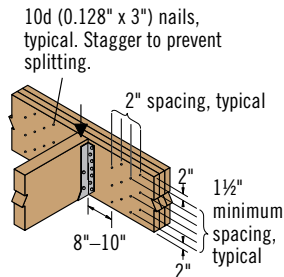
L19

8-Screw Connection



L20

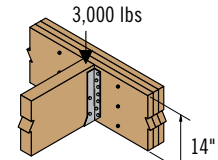
Nail Connection



L21

There must be an equal number of nails on each side of the connection

Point Load Design Example



First, verify that a 3-ply, 1 3/4" x 14" beam can support the 3,000 lb point load as well as all other loads applied. The 3,000 lb point load is being transferred to the beam with a face mount hanger. For a 3-ply, 1 3/4" assembly, eight 3 3/8" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

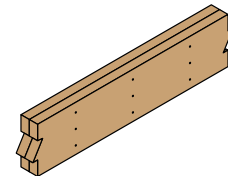
1 3/4"-Wide Pieces

- Minimum of three rows of 10d (0.128" x 3") nails at 12" on-center for depths 11 7/8" or less.
- Minimum of four rows of 10d (0.128" x 3") nails at 12" on-center for depths 14" or deeper.
- If using 12d–16d (0.148"–0.162" diameter) nails, the number of nailing rows may be reduced by one.
- Minimum of two rows of SDS, SDW, WS, or TrussLok™ screws at 16" on-center. Use 3 3/8" minimum length with two or three plies; 5" minimum for 4-ply members. For 3- or 4-ply members, connectors must be installed on both sides. Stagger fasteners on opposite side of beam by 1/2 of the required connector spacing.

- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

3 1/2"-Wide Pieces

- Minimum of two rows of SDS, SDW, WS, or TrussLok™ screws, 5" minimum length, at 16" on-center. Connectors must be installed on both sides. Stagger fasteners on opposite side of beam by 1/2 of the required connector spacing.
- Minimum of two rows of 1/2" bolts at 24" on-center staggered.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.



L6

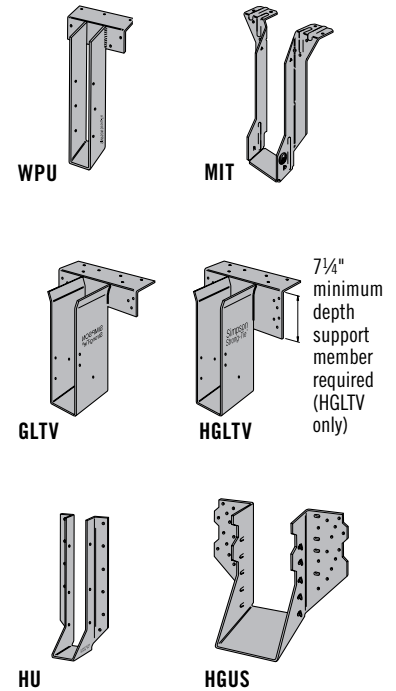
Multiple pieces can be nailed or bolted together to form a header or beam of the required size, up to a maximum width of 7"

FRAMING CONNECTORS

Top Mount Hangers—Simpson Strong-Tie®

Supported Member Width	Supported Member Depth	Hanger	Nail Type		Allowable Load (lbs)—100% ⁽¹⁾		
			Header	Joist	Support Member Material		
					LSL, LVL, PSL	DF/SP	SPF
1¾"	9¼"	WPU1.81/9.25	16d	10d x 1½"	3,650	4,165	4,165
		LBV1.81/9.25	16d	10d x 1½"	2,885	2,590	2,060
	9½"	MIT9.5	16d	10d x 1½"	2,115	2,305	1,665
		LBV1.81/9.5	16d	10d x 1½"	2,885	2,590	2,060
	11¼"	WPU1.81/11.25	16d	10d x 1½"	3,650	4,165	4,165
		LBV1.81/11.25	16d	10d x 1½"	2,885	2,590	2,060
	11⅞"	MIT11.88	16d	10d x 1½"	2,115	2,305	1,665
		BA1.81/11.88	16d	10d x 1½"	3,705	3,435	2,665
	14"	B1.81/14	16d	10d x 1½"	3,355	3,640	2,650
3½"	9¼"	HB3.56/9.25	16d	16d	5,640	5,650	3,820
	9½"	HB3.56/9.5	16d	16d	5,640	5,650	3,820
	11¼"	HB3.56/11.25	16d	16d	5,640	5,650	3,820
	11⅞"	HB3.56/11.88	16d	16d	5,640	5,650	3,820
	14"	GLTV3.514	16d	16d	5,750	7,000	5,145
	16"	GLTV3.516	16d	16d	5,750	7,000	5,145
	18"	HGLTV3.518	16d	16d	9,000	8,665	6,770
	20"	HGLTV3.520	16d	16d	9,000	8,665	6,770
5¼"	9¼"	GLTV5.50/9.25	16d	16d	5,750	7,000	5,145
	9½"	GLTV5.59	16d	16d	5,750	7,000	5,145
	11¼"	GLTV5.50/11.25	16d	16d	5,750	7,000	5,145
	11⅞"	HGLTV5.511	16d	16d	9,000	8,665	6,770
	14"	EGQ5.50-SDS3	SDS ¼" x 3"	SDS ¼" x 3"	18,680	—	—
	16"	EGQ5.50-SDS3	SDS ¼" x 3"	SDS ¼" x 3"	18,680	—	—
	18"	EGQ5.50-SDS3	SDS ¼" x 3"	SDS ¼" x 3"	18,680	—	—
	20"	EGQ5.50-SDS3	SDS ¼" x 3"	SDS ¼" x 3"	18,680	—	—
7"	11⅞"	EGQ7.25-SDS3	SDS ¼" x 3"	SDS ¼" x 3"	18,680	—	—
	14"	EGQ7.25-SDS3	SDS ¼" x 3"	SDS ¼" x 3"	18,680	—	—
	16"	EGQ7.25-SDS3	SDS ¼" x 3"	SDS ¼" x 3"	18,680	—	—
	18"	EGQ7.25-SDS3	SDS ¼" x 3"	SDS ¼" x 3"	18,680	—	—

(1) Maximum load for top mount hangers may **not** be increased for duration of load.



Hanger information on these two pages was provided by either Simpson Strong-Tie® or USP Structural Connectors®. For additional information, please refer to their literature.

Face Mount Hangers—Simpson Strong-Tie®

Supported Member Width	Supported Member Depth	Hanger	Nail Type		Allowable Load (lbs)—100%		
			Header	Joist	Support Member Material		
					LSL, LVL, PSL	DF/SP	SPF
1¾"	7¼"–9½"	HU7	16d	10d x 1½"	1,610 ⁽¹⁾	1,610 ⁽¹⁾	1,390 ⁽¹⁾
	11¼"–14"	HU11	16d	10d x 1½"	2,950 ⁽¹⁾	2,950 ⁽¹⁾	2,550 ⁽¹⁾
		HUS1.81/10	16d	16d	4,900	4,900	4,355
3½"	7¼"–11¼"	HHUS48	16d	16d	3,885	3,885	3,275
	9½"–18"	HHUS410	16d	16d	5,190	5,190	4,385
		HGUS410	16d	16d	8,780	8,780	7,365
	14"–20"	HGUS414	16d	16d	10,015	10,015	7,890
5¼"	9¼"–11⅞"	HHUS5.50/10	16d	16d	5,190	5,190	4,385
	11¼"–14"	HGUS5.50/12	16d	16d	9,155	9,155	7,690
		HGUS5.50/14	16d	16d	10,015	10,015	8,415
	14"–20"	HGU5.50	SDS ¼" x 2½"	SDS ¼" x 2½"	14,145	14,145	10,185
7"	9¼"–11⅞"	HGUS7.25/10	16d	16d	8,780	8,780	7,595
	11¼"–16"	HGUS7.25/12	16d	16d	9,835	9,835	8,260
		HGU7.25	SDS ¼" x 2½"	SDS ¼" x 2½"	14,145	14,145	10,185
	14"–20"	HGUS7.25/14	16d	16d	11,110	11,110	9,330
		HHGU7.25	SDS ¼" x 2½"	SDS ¼" x 2½"	17,845	17,845	12,850

(1) Value may be increased for duration of load.

General Notes

- Hanger capacity may be more or less than that of the supported member; therefore, check both the hanger and the beam capacities.
- Leave ⅛" clearance (⅛" maximum) between the end of the beam or header and its support member or hanger.

Header Assumptions

- Hangers to be supported by headers of TimberStrand® LSL, Microllam® LVL, Parallam® PSL, Douglas fir, southern pine, or spruce-pine-fir.
- When using top mount hangers in back-to-back applications, ensure that the

supporting beam width is adequate to prevent hanger interference.

- Face mount hangers to be supported by 1¾" width headers, minimum.

Nailing Requirements

- Fill all round and positive-angle nail holes with the proper nails.
 - 10d x 1½" nails are 0.148" dia. by 1½" long.
 - 10d nails are 0.148" dia. by 3" long.
 - 16d nails are 0.162" dia. by 3½" long.
 - For USP:** 16d R.S. nails are (9 gauge) 0.148" dia. by 3½" long ring-shank nails.

FRAMING CONNECTORS

Top Mount Hangers—USP Structural Connectors®

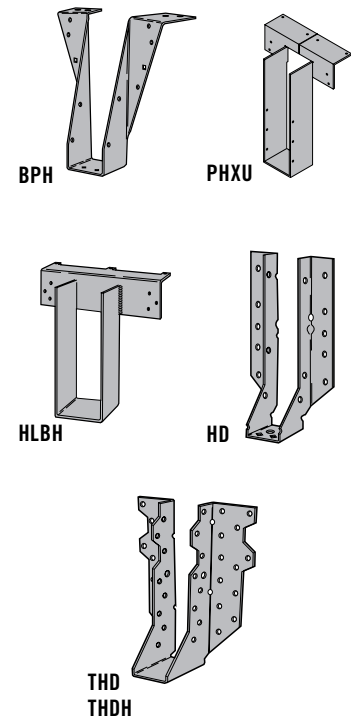
Supported Member Width	Supported Member Depth	Hanger	Nail Type		Allowable Load (lbs)—100% ⁽¹⁾		
			Header	Joist	Support Member Material		
					LSL, LVL, PSL	DF/SP	SPF
1¾"	9¼"	BPH17925	16d	10d x 1½"	3,340	3,030	2,180
		PHXU17925	16d	10d x 1½"	4,420	4,420	3,155
	9½"	BPH1795	16d	10d x 1½"	3,340	3,030	2,180
		PHXU1795	16d	10d x 1½"	4,420	4,420	3,155
	11¼"	BPH17112	16d	10d x 1½"	3,340	3,030	2,180
		PHXU17112	16d	10d x 1½"	4,420	4,420	3,155
	11⅞"	BPH17118	16d	10d x 1½"	3,340	3,030	2,180
		PHXU17118	16d	10d x 1½"	4,420	4,420	3,155
3½"	9¼"	BPH1714	16d	10d x 1½"	3,340	3,030	2,180
		PHXU1714	16d	10d x 1½"	4,420	4,420	3,155
	9½"	PHXU35925	16d	10d	5,785	5,285	3,590
		PHXU3595	16d	10d	5,785	5,285	3,590
	11¼"	PHXU35112	16d	10d	5,785	5,285	3,590
		PHXU35118	16d	10d	5,785	5,285	3,590
	14"	HLBH3514	NA16D-RS	16d	9,600	9,600	8,560
		HLBH3516	NA16D-RS	16d	9,600	9,600	8,560
5¼"	16"	HLBH3518	NA16D-RS	16d	9,600	9,600	8,560
		PHXU3520	16d	10d	5,785	5,285	3,590
	20"	HLBH3520	NA16D-RS	16d	9,600	9,600	8,560
		PHXU55925	16d	10d	5,785	5,285	3,590
	9½"	PHXU5595	16d	10d	5,785	5,285	3,590
		PHXU55112	16d	10d	5,785	5,285	3,590
	11⅞"	PHXU55118	16d	10d	5,785	5,285	3,590
		HLBH5514	NA16D-RS	16d	9,600	9,600	8,560
7"	16"	HLBH5516	NA16D-RS	16d	9,600	9,600	8,560
		PHXU5518	16d	10d	5,785	5,285	3,590
	18"	HLBH5518	NA16D-RS	16d	9,600	9,600	8,560
		PHXU5520	16d	10d	5,785	5,285	3,590
	20"	HLBH5520	NA16D-RS	16d	9,600	9,600	8,560
		PHXU71118	16d	10d	5,785	5,285	3,590
	14"	HLBH7114	NA16D-RS	16d	9,600	9,600	8,560
		HLBH7116	NA16D-RS	16d	9,600	9,600	8,560
7"	18"	HLBH7118	NA16D-RS	16d	9,600	9,600	8,560

(1) Maximum load for top mount hangers may **not** be increased for duration of load.

Face Mount Hangers—USP Structural Connectors®

Supported Member Width	Supported Member Depth	Hanger	Nail Type		Allowable Load (lbs)—100%		
			Header	Joist	Support Member Material		
					LSL, LVL, PSL	DF/SP	SPF
1¾"	9¼"–14"	HD17925	16d	10d x 1½"	2,540 ⁽¹⁾	2,540 ⁽¹⁾	2,080 ⁽¹⁾
		THD179	16d	10d x 1½"	5,360 ⁽¹⁾	5,360 ⁽¹⁾	4,210 ⁽¹⁾
	11¼"–14"	HD17112	16d	10d x 1½"	2,870 ⁽¹⁾	2,870 ⁽¹⁾	2,080 ⁽¹⁾
		HD1714	16d	10d x 1½"	3,100 ⁽¹⁾	3,100 ⁽¹⁾	2,280 ⁽¹⁾
3½"	9¼"–14"	HD410	16d	10d	2,540 ⁽¹⁾	2,540 ⁽¹⁾	2,180 ⁽¹⁾
		THD410	16d	10d	5,360 ⁽¹⁾	5,360 ⁽¹⁾	4,600 ⁽¹⁾
		HD412	16d	10d	3,100 ⁽¹⁾	3,100 ⁽¹⁾	2,660 ⁽¹⁾
		THD412	16d	10d	6,770 ⁽¹⁾	6,770 ⁽¹⁾	5,810 ⁽¹⁾
	11¼"–18"	THDH412	16d	16d	9,845	9,845	8,270
		HD414	16d	10d	3,385 ⁽¹⁾	3,385 ⁽¹⁾	2,905 ⁽¹⁾
		THD414	16d	10d	7,045	7,045	5,920
		THDH414	16d	16d	9,845	9,845	8,270
5¼"	9¼"–11⅞"	HD5210	16d	10d	2,540 ⁽¹⁾	2,540 ⁽¹⁾	2,180 ⁽¹⁾
		THD610	16d	10d	5,660 ⁽¹⁾	5,660 ⁽¹⁾	4,900 ⁽¹⁾
		THDH610	16d	16d	8,725 ⁽¹⁾	8,725 ⁽¹⁾	7,520 ⁽¹⁾
		THDH612	16d	16d	9,935	9,935	8,345
	11¼"–18"	THD612	16d	10d	7,150 ⁽¹⁾	7,150 ⁽¹⁾	6,190 ⁽¹⁾
		THD614	16d	10d	8,415	8,415	7,070
		THDH614	16d	16d	11,645	11,645	9,780
		THDH614	16d	16d	11,645	11,645	9,780
7"	9¼"–14"	HD7100	16d	10d	1,690 ⁽¹⁾	1,690 ⁽¹⁾	1,450 ⁽¹⁾
		THDH7210	16d	16d	8,260 ⁽¹⁾	8,260 ⁽¹⁾	7,120 ⁽¹⁾
	11¼"–16"	HD7120	16d	10d	2,255 ⁽¹⁾	2,255 ⁽¹⁾	1,935 ⁽¹⁾
		THDH7212	16d	16d	9,845	9,845	8,270
		HD7140	16d	10d	2,820 ⁽¹⁾	2,820 ⁽¹⁾	2,420 ⁽¹⁾
		THDH7214	16d	16d	9,845	9,845	8,270

(1) Value may be increased for duration of load.



See General Notes on page 40

Allowable Axial Loads (lbs) for 1.3E TimberStrand® LSL

Column Bearing Type	Effective Column Length	Column Size														
		3½" x 3½"			3½" x 4¾"			3½" x 5½"			3½" x 7¼"			3½" x 8¾"		
		100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%
On Column Base	3'	10,750	12,155	13,055	13,440	15,190	16,320	16,895	19,095	20,515	22,275	25,175	27,045	26,495	29,945	32,170
	4'	9,795	10,895	11,575	12,245	13,620	14,470	15,395	17,120	18,190	20,295	22,565	23,980	24,140	26,845	28,525
	5'	8,615	9,375	9,820	10,765	11,715	12,275	13,535	14,730	15,430	17,840	19,415	20,340	21,225	23,095	24,195
	6'	7,330	7,810	8,085	9,160	9,760	10,105	11,515	12,270	12,700	15,180	16,175	16,740	18,060	19,245	19,920
	7'	6,135	6,450	6,625	7,670	8,060	8,280	9,645	10,130	10,410	12,710	13,355	13,725	15,120	15,890	16,325
	8'	5,140	5,355	5,480	6,430	6,695	6,850	8,080	8,420	8,610	10,650	11,095	11,350	12,670	13,200	13,505
	9'	4,345	4,500	4,590	5,430	5,625	5,735	6,825	7,070	7,210	9,000	9,320	9,505	10,705	11,090	11,310
	10'	3,705	3,825	3,890	4,635	4,780	4,860	5,825	6,005	6,110	7,675	7,920	8,055	9,135	9,420	9,585
	12'	2,775	2,845	2,885	3,470	3,560	3,610	4,360	4,475	4,535	5,750	5,895	5,980	6,840	7,015	7,115
	14'	2,150	2,195	2,220	2,685	2,745	2,775	3,380	3,450	3,490	4,455	4,550	4,600	5,300	5,410	5,475
On Wood Plate ⁽¹⁾	3'-7'	5,425	5,425	5,425	6,650	6,650	6,650	8,225	8,225	8,225	10,150	10,150	10,150	12,075	12,075	12,075
	8'	5,140	5,355	5,425	6,430	6,650	6,650	8,080	8,225	8,225	10,150	10,150	10,150	12,075	12,075	12,075
	9'	4,345	4,500	4,590	5,430	5,625	5,735	6,825	7,070	7,210	9,000	9,320	9,505	10,705	11,090	11,310
	10'	3,705	3,825	3,890	4,635	4,780	4,860	5,825	6,005	6,110	7,675	7,920	8,055	9,135	9,420	9,585
	12'	2,775	2,845	2,885	3,470	3,560	3,610	4,360	4,475	4,535	5,750	5,895	5,980	6,840	7,015	7,115
	14'	2,150	2,195	2,220	2,685	2,745	2,775	3,380	3,450	3,490	4,455	4,550	4,600	5,300	5,410	5,475

(1) See connection details below.

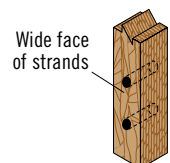
Allowable Axial Loads (lbs) for 1.8E Parallam® PSL

Column Bearing Type	Effective Column Length	Column Size																	
		3½" x 3½"			3½" x 5¼"			3½" x 7"			5¼" x 5¼"			5¼" x 7"			7" x 7"		
		100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%
On Column Base	6'	10,595	11,200	11,545	15,890	16,800	17,320	21,190	22,395	23,095	33,295	36,675	38,735	40,000	40,000	40,000	40,000	40,000	40,000
	7'	8,735	9,140	9,370	13,105	13,710	14,060	17,475	18,280	18,745	30,010	32,545	34,030	40,000	40,000	40,000	40,000	40,000	40,000
	8'	7,265	7,550	7,715	10,900	11,325	11,570	14,535	15,100	15,425	26,650	28,490	29,555	35,530	37,985	39,410	40,000	40,000	40,000
	9'	6,115	6,320	6,440	9,170	9,480	9,660	12,225	12,640	12,880	23,475	24,835	25,620	31,300	33,115	34,165	40,000	40,000	40,000
	10'	5,200	5,355	5,445	7,800	8,035	8,170	10,400	10,715	10,895	20,660	21,695	22,290	27,545	28,925	29,725	40,000	40,000	40,000
	12'	3,885	3,980	4,030	5,825	5,965	6,050	7,765	7,955	8,065	16,160	16,805	17,175	21,545	22,405	22,900	40,000	40,000	40,000
	14'	3,000	3,065	3,100	4,500	4,595	4,645	6,005	6,125	6,195	12,890	13,315	13,560	17,185	17,755	18,080	34,155	35,785	36,720
	16'	Slenderness ratio exceeds 50									10,480	10,775	10,950	13,970	14,370	14,595	28,485	29,640	30,300
	18'										8,670	8,885	9,010	11,560	11,850	12,010	24,020	24,860	25,345
	20'										7,285	7,445	7,535	9,710	9,925	10,050	20,475	21,110	21,475
	22'																17,630	18,125	18,405
	24'																15,325	15,715	15,935

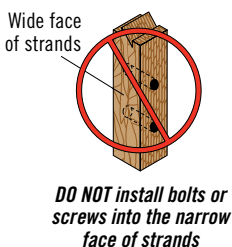
General Notes

- Tables are based on:
 - Solid, one-piece column members used in dry-service conditions.
 - Bracing in both directions at column ends.
 - NDS® 2005.
 - Compression perpendicular-to-grain stress of 400 psi adjusted per the NDS® 2005, 3.10.4.
 - Simple columns with axial loads only. For side loads or other combined bending and axial loads, see the NDS® 2005.
- Allowable loads have been adjusted to accommodate the worst case of the following eccentric conditions: ½ of column thickness (first dimension) or ½ of column width.
- Beams and columns must remain straight to within $\frac{5L}{4608}$ (in.) of true alignment. L is the unrestrained length of the member in feet.

For column allowable design stresses see page 5.

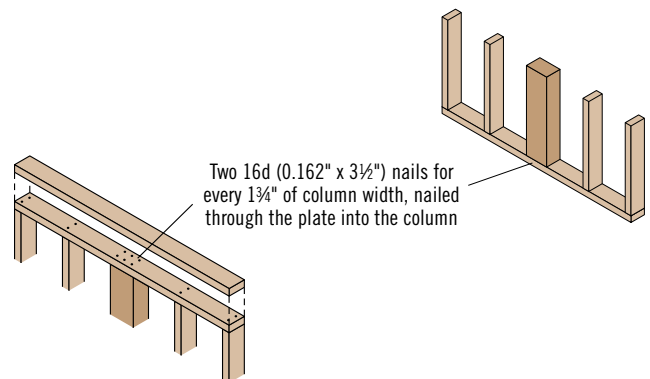


In order to use the manufacturer's published capacities when designing column caps, bases, or holdowns for uplift, the bolts or self-drilling screws must be installed perpendicular to the wide face of strands as shown at left.



DO NOT install bolts or screws into the narrow face of strands

Top or Bottom Plate Connection



The column and connector values listed are for dry-service conditions ONLY. When wet-service conditions exist, contact your iLevel representative for other product solutions.

Column Caps for TimberStrand® LSL and Parallam® PSL

Column Product	Beam Width	Column Size	Location on Beam	Simpson Strong-Tie®		USP Structural Connectors®	
				Connector	Load (lbs)	Connector	Load (lbs)
1.3E TimberStrand® LSL	3½"	3½" x 3½"	End	ECC44	7,655	KECC44	13,090
			Intermediate	CC44	15,310	KCC44	16,660
		3½" x 5½"	End	ECC46	12,030	KECC46	20,230
			Intermediate	CC46	24,060	KCC46	24,065
		3½" x 7¼"	End	ECC48	16,405	KECC48	22,610
			Intermediate	CC48	24,060	KCC48	26,180
1.8E Parallam® PSL	3½"	3½" x 3½"	End	ECC44	7,655	KECC44	14,440
			Intermediate	CC44	15,310	KCC44	18,375
		3½" x 5¼"	End	ECC46	12,030	KECC45	19,690
			Intermediate	CC46	24,060	KCC45	28,875
	5¼"	5¼" x 3½"	End	ECC64	12,030	KECC54	29,530
			Intermediate	CC64	37,810	KCC54	43,315
		5¼" x 5¼"	End	ECC66	18,905	KECC55	24,610
			Intermediate	CC66	37,810	KCC55	43,315
		5¼" x 7"	End	ECC6-7½	24,060	KECC57	37,405
			Intermediate	CC6-7½	37,810	KCC57	43,315
	7"	7" x 3½"	End	ECC7½-4	18,375	KECC74	53,155
			Intermediate	CC7½-4	68,250	KCC74	65,815
		7" x 5¼"	End	ECC7½-6	28,875	KECC75X	55,125
			Intermediate	CC7½-6	68,250	KCC75X	68,250
		7" x 7"	End	ECC7½-7½	36,750	KECC77X	55,125
			Intermediate	CC7½-7½	68,250	KCC77X	68,250

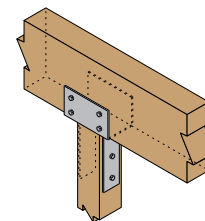
Column Bases for TimberStrand® LSL and Parallam® PSL

Column Product	Column Size	Simpson Strong-Tie®		USP Structural Connectors®	
		Connector	Load (lbs)	Connector	Load (lbs)
1.3E TimberStrand® LSL	3½" x 3½"	ABA44	6,000	PA44	5,135
		CB44	Post or concrete control	PAU44	6,775
	3½" x 5½"	CB46	Post or concrete control	CBS44	6,775
	3½" x 7¼"	CB48	Post or concrete control	KCB44	Post or concrete control
1.8E Parallam® PSL	3½" x 3½"	LCB44	Post or concrete control	PA46	6,285
		CB44		KCB46	Post or concrete control
	3½" x 5¼"	CB46		KCB48	Post or concrete control
		CB7½-4		CBE44	Post or concrete control
	3½" x 7"	CB66		KCB44	
		CB6-7		CBE46	
	5¼" x 5¼"	CB7½-6		KCB45	
		CB7½-7		KCB47	
	7" x 7"	CB7½-7		KCB74	
				CBE66	

General Notes

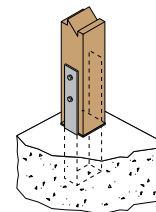
- Capacities shown cannot be adjusted for duration of load.
- Connector capacities assume a beam material with a minimum perpendicular-to-grain bearing of 625 psi.
- Connector capacities may be more than the column capacity; therefore, check both the connector and the column capacity and use the lower capacity.
- Other connectors may be available. Capacities may vary depending on orientation of member. Contact the hanger manufacturer for more information.

Beam on Column Cap



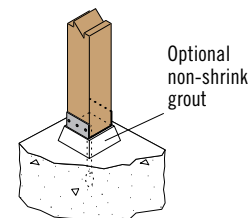
P1

Column Base



P2

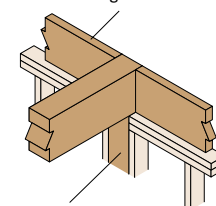
Elevated Column Base



P3

Beam on Column

1¼" TimberStrand® LSL or iLevel® 1½" rim board or blocking for lateral support



L1



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Floors and Roofs: Start with the best framing components in the industry: our iLevel® Trus Joist® Silent Floor® joists; TimberStrand® LSL rim board; and TimberStrand® LSL, Microllam® LVL, and Parallam® PSL headers and beams. Pull them all together with our self-gapping iLevel® Edge™ or iLevel® Edge Gold™ floor panels and durable Weyerhaeuser® roof sheathing.

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