

iLevel[®] Trus Joist[®] 1¼" 1.3E TimberStrand[®] LSL Rim Board Header Tables

Floor – 100% (PLF)⁽¹⁾

Span	Condition	1¼" Width (1-ply) ⁽²⁾			2½" Width (2-ply)			
		9½"	11⅞"	14"	9½"	11⅞"	14"	16"
3'-0"	Total Load	2,415	2,544	2,544	4,831	5,088	5,088	5,088
	Live Load L/360	*	*	*	*	*	*	*
4'-0"	Total Load	1,357	1,907	1,907	2,714	3,813	3,813	3,813
	Live Load L/360	*	*	*	*	*	*	*
5'-0"	Total Load	867	1,328	1,524	1,734	2,657	3,048	3,048
	Live Load L/360	*	*	*	*	*	*	*
6'-0"	Total Load	601	921	1,262	1,202	1,842	2,524	2,538
	Live Load L/360	*	*	*	*	*	*	*
7'-0"	Total Load	440	675	926	881	1,351	1,852	2,174
	Live Load L/360	419	*	*	838	*	*	*

Roof – Snow Load Area 115% (PLF)⁽¹⁾

Span	Condition	1¼" Width (1-ply) ⁽²⁾			2½" Width (2-ply)			
		9½"	11⅞"	14"	9½"	11⅞"	14"	16"
3'-0"	Total Load	2,544	2,544	2,544	5,088	5,088	5,088	5,088
	Live Load L/240	*	*	*	*	*	*	*
4'-0"	Total Load	1,561	1,907	1,907	3,122	3,813	3,813	3,813
	Live Load L/240	*	*	*	*	*	*	*
5'-0"	Total Load	998	1,524	1,524	1,996	3,048	3,048	3,048
	Live Load L/240	*	*	*	*	*	*	*
6'-0"	Total Load	692	1,060	1,269	1,384	2,120	2,538	2,538
	Live Load L/240	*	*	*	*	*	*	*
7'-0"	Total Load	507	777	1,065	1,015	1,555	2,131	2,174
	Live Load L/240	*	*	*	*	*	*	*

Roof – Non-Snow Load Area 125% (PLF)⁽¹⁾

Span	Condition	1¼" Width (1-ply) ⁽²⁾			2½" Width (2-ply)			
		9½"	11⅞"	14"	9½"	11⅞"	14"	16"
3'-0"	Total Load	2,544	2,544	2,544	5,088	5,088	5,088	5,088
	Live Load L/240	*	*	*	*	*	*	*
4'-0"	Total Load	1,697	1,907	1,907	3,394	3,813	3,813	3,813
	Live Load L/240	*	*	*	*	*	*	*
5'-0"	Total Load	1,085	1,524	1,524	2,170	3,048	3,048	3,048
	Live Load L/240	*	*	*	*	*	*	*
6'-0"	Total Load	752	1,152	1,269	1,505	2,305	2,538	2,538
	Live Load L/240	*	*	*	*	*	*	*
7'-0"	Total Load	551	845	1,087	1,103	1,691	2,174	2,174
	Live Load L/240	*	*	*	*	*	*	*

(1) Minimum 12" intermediate and end bearing required. See installation detail below.

(2) Perpendicular TJI[®] joist framing at 24" o.c. or less required for 1-ply applications. See installation detail below. For framing parallel to header, install blocking at 24" o.c.

How to Use This Table

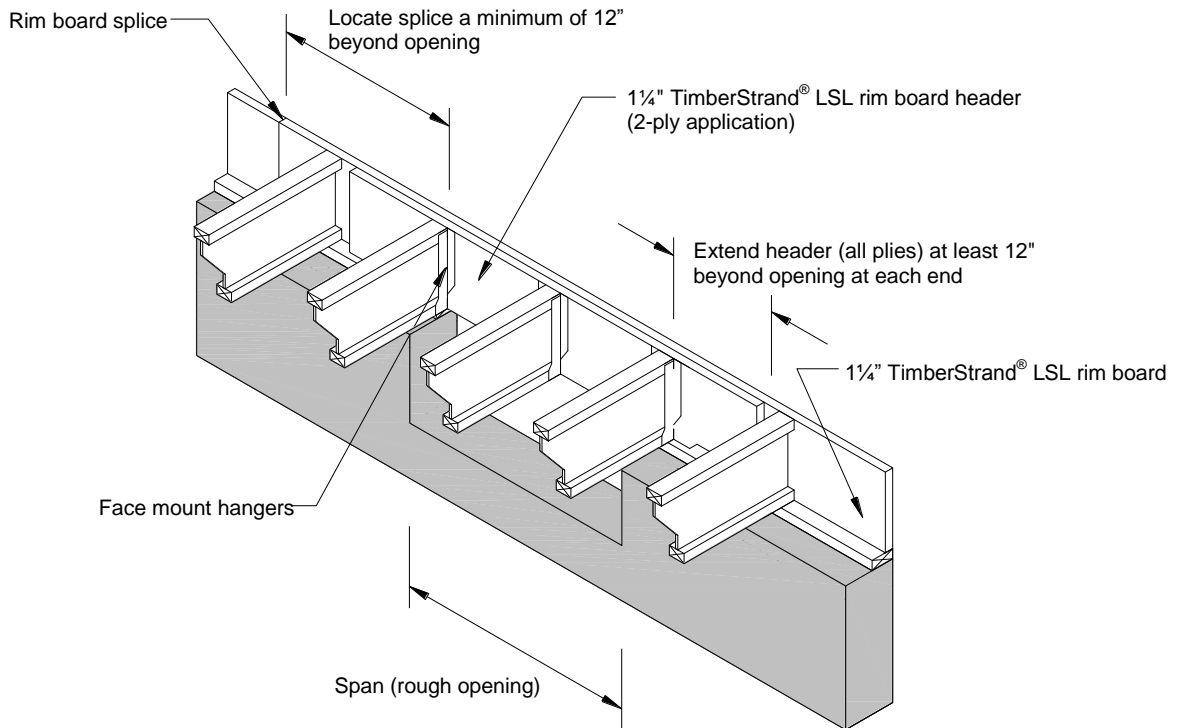
1. Calculate total and live load (neglect beam weight) on the header in pounds per linear foot (plf).
2. Select the appropriate **Span** (see figure below).
3. Scan horizontally to find the proper width, and a depth with a capacity that exceeds the actual total and live loads.

General Notes

- Table based on:
 - Uniform loads (member weight considered) and the more restrictive of simple or continuous span.
 - Deflection criteria of L/240 total load and L/360 live load at 100% and L/180 total load and L/240 live load at 115% and 125%.
 - Minimum 12" intermediate and end bearing required. See detail below.

Additional Header Design Information

- For loading conditions other than uniform loads, (i.e. concentrated loads), contact your iLevel[®] representative.
- Support TJI[®] joists from rim board header with face mount hangers only. For 1-ply header applications, reduce hanger capacities according to hanger manufacturers' recommendations. See Simpson Strong-Tie's Technical Bulletin [T-RIMBDHGR07](#). Clinch ends of hanger nails where necessary.
- Fasten 2-ply headers together with two rows of 8d (0.113" x 2.5") box nails at 4 inches on center. Use three rows with 14" and 16" deep headers.



For 1-ply headers, reduce face mount hanger capacities according to manufacturers' recommendations.