

iLevel® 1½" Rim Board – Header and Cantilever Applications

At iLevel, our goal is to help you build solid durable homes by providing high-quality residential building products and unparalleled technical and field support.

Need technical help? iLevel® has one of the largest networks of engineers and sales representatives in the business. Call us at 1-888-iLevel8 for help, and a skilled member from our team of experts will contact you within one business day to evaluate and help solve your structural frame problems—GUARANTEED.

iLevel® 1½" Rim Board Benefits

- Complies with conventional construction framing requirements.
- Matches depths of iLevel® Trus Joist® TJI® joists and is recommended for use with the Silent Floor® System.
- Can be used in bending applications to span over window and door openings and to trim out stair case openings (see tables below). It can also be used in cantilever applications up to 2'-0".

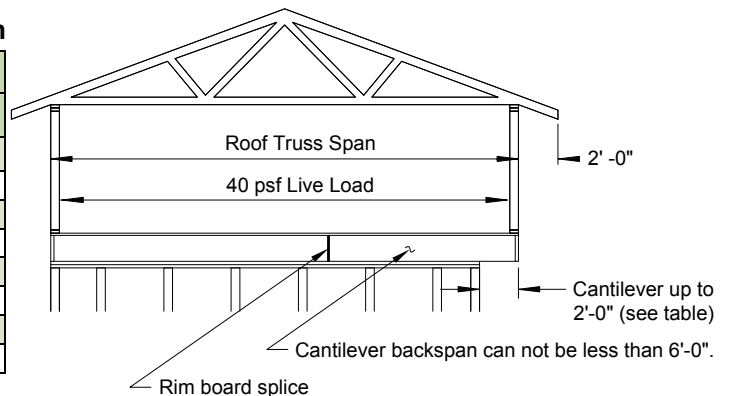
1½" iLevel® Rim Board Design Information (Factored Resistances)

Rim Board Applications	
Vertical Load Capacity	6,560 plf
Allowable Lateral Load	260 plf
½" Lag Screw Allowable Load	575 lbs ⁽¹⁾
Bending Applications	
Maximum Allowable Span ⁽²⁾ :	See PLF table on page 2
Maximum Allowable Cantilever	See cantilever table below

(1) Factored resistance considers a ⅜" gap between the rim board and deck ledger.

1½" iLevel® Rim Board Allowable Cantilever Length

Rim Board Depth	Roof Truss Span	Unfactored Roof Total Load		
		35 psf	45 psf	55 psf
9½" 11⅞" 14" 16"	< 26'	2'-0"	2'-0"	2'-0"
	28'	2'-0"	2'-0"	1'-6"
	30'	2'-0"	2'-0"	1'-6"
	32'	2'-0"	2'-0"	X
	34'	2'-0"	2'-0"	X
	36'	2'-0"	1'-6"	X
	38'	2'-0"	1'-6"	X
	40'	2'-0"	X	X



How to Use This Table

1. Locate the **Roof Truss Span** (horizontal) that meets or exceeds your condition.
2. Locate the **Unfactored Roof Total Load** for your application.
3. Scan down the table to determine the maximum cantilever length for your application.
4. 'X' indicates that cantilevers will not work for that condition.

General Notes

- Table is based on:
 - Standard Term.
 - 15 psf unfactored roof dead load on horizontal projection.
 - 80 plf unfactored exterior wall load.
 - Roof truss with 24" overhangs.
 - Single story applications.

1 1/8" iLevel® Rim Board Load Table (PLF)

Condition (Floor or Roof)	Clear Span ⁽¹⁾	2 ply (2 1/4" Width)			
		9 1/2"	11 7/8"	14"	16"
Total Factored Resistance (Standard Term)	Up to 3'-0"	2,497	3,904	5,393	5,393
	3'-6"	1,832	2,866	3,985	4,621
	4'-0"	1,401	2,192	3,049	3,984
	4'-6"	1,106	1,730	2,406	3,145
	5'-0"	894	1,399	1,947	2,545
	5'-6"	738	1,155	1,607	2,101
	6'-0"	619	969	1,349	1,764

(1) For applications requiring longer spans, use an appropriately sized Microllam® LVL, Parallam® PSL or TimberStrand® LSL header.

How to Use This Table

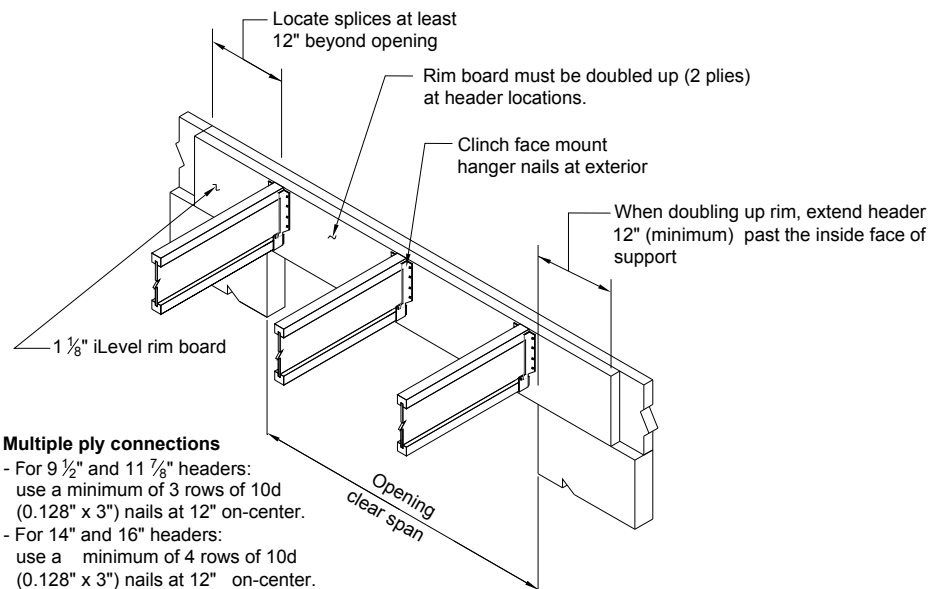
1. Calculate total factored load (neglect member weight) on the header in pounds per linear foot (plf).
2. Select the appropriate **Clear Span** (see figure below).
3. Scan horizontally to find a capacity that exceeds the actual total factored load; then scan up for proper rim board width and depth.

General Notes

- Table is 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.
 - Minimum 12" of intermediate and end bearing required (see detail below).

Additional Header Design Information

- Lateral support is required along the span at 24" o.c. or less for both parallel and perpendicular framing conditions. The figure to the right shows perpendicular framing.
- Ensure header depth matches TJI® joist and rim board depth.
- For conditions where rim board headers are required to support concentrated loads from beams, columns, etc., or to span a larger opening, use an appropriately sized Microllam® LVL, Parallam® PSL, or TimberStrand® LSL header instead.



For additional information on how to install 1 1/8" iLevel® rim board, please refer to:

- *iLevel® 1 1/8" Rim Board Technical Brief (#OSB-4250)* for further installation information.
- *iLevel® Trus Joist® TJI® 110, 210, 230, 360 and 560 Joists Specifier's Guide (#TJ-4500)* for rim board applications and details.