

Safety & Construction Precautions

WARNING

- I-joists and LVL beams are not stable until completely installed, and will not carry any load until fully braced and sheathed.
- Avoid Accidents by Following These Important Guidelines:
 - Brace and nail each I-joist as it is installed, using hangers, blocking panels, rimboard, and/or cross bracing at joint ends.
 - When the building is completed, the floor sheathing will provide lateral support for I-joists. I-joists are not to be used as a permanent support for any other structure, including, but not limited to, other called stairs, or temporary sheathing to be applied to prevent I-joist rollover or buckling.
 - *Temporary bracing or struts must be 1 x 4 inch minimum, at least 8 feet long and spaced no more than 6 feet on center, and must be secured with a minimum of two 8d nails fastened to the top surface of each I-joist. Use ends of adjoining bracing over at least two I-joists.
 - *Nail bracing to a lateral restraint at the end of each bay. Sheathing (temporary or permanent) can be nailed to the top flange of the first 4 feet of I-joists at the end of the bay to provide lateral restraint.
 - For cantilevered I-joists, brace top and bottom flanges, and brace ends with closure panels, rimboard, or cross bracing.
 - Install and nail permanent sheathing to each I-joist before placing loads on the floor system. Then, block building materials over beams or walls only. See APA Technical Note number 173 (Temporary Construction Loads Over I-Joist Roofs and Floors) for additional information regarding proper blocking of building materials.
 - Never install a damaged I-joist or LVL beam.

Improper storage or installation, failure to follow applicable building codes, failure to follow span ratings for RFPFI-Joists or RigidLam® LVL, failure to use allowable hole sizes and locations, or failure to use web stiffeners when required can result in serious accidents. Follow these installation guidelines carefully.

Storage and Handling Guidelines

- Do not drop I-joists or LVL off the delivery truck. Best practice is use of a forklift or boom.
- Store bundles upright on a smooth, level, well-drained support surface.
- DO NOT store I-joists or LVL in direct contact with the ground. Bundles should be a minimum of 6" of the ground and supported every 10' or less.
- Always stack and handle I-joists in their upright position only.
- Place 2x on LVL spacers (at a maximum of 10' apart) between bundles stored on top of one another. Spacers above should be tied up with spacers below.
- Bundles should remain wrapped, strapped, and protected from the weather until time of installation.
- Do not lift I-joist bundles by top flange.
- Avoid excessive bowing or twisting of I-joists. Lift at all phases of handling and installation (i.e. measuring, sawing or carrying). Never load I-joists in the field wide orientation.
- Take care to avoid forklift damage. Reduce forklift speed to avoid "bouncing" the load.
- When handling I-joists with a crane ("picking"), take a few simple precautions to prevent damage to the I-joists and injury to your work crew:
 - Pick I-joists in the bays as carried by the supplier.
 - Orient the bundles so that the web of the I-joist are vertical.
 - Pick the bundles at the 5th points, using a spreader bar if necessary.
- Do not stack LVL bundles on top of I-joist bundles. NEVER USE A DAMAGED I-JOIST OR LVL. All field repairs must be approved by a Design Professional.

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Roseburg Framing System® Installation Guide

Quality Engineered Wood Products For Today's Builder® RFPFI-Joist®-RigidLam® LVL

Available RFPFI-Joist Sizes*

SOLID SAWN FLANGE

For additional information refer to the Roseburg Engineering Wood Products Design Guide

Available RigidLam® LVL Sizes*

Not all sizes available in all markets. Contact your Roseburg representative for availability.

3650 Gateway St. Springfield, OR 97477
Tel: 503.245.1115 | Fax: 541.675.2612
ewpsales@rfpc.com | roseburg.com



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RFPFI-Joist Allowable Clear Spans

1. Allowable spans shown in Table 1 and Table 2 are based on uniformly loaded I-joists with 1-3/4" end bearing lengths and 3-1/2" intermediate bearing lengths without the use of web stiffeners. When longer bearing lengths or web stiffeners are used, longer spans may be permitted. Use appropriate software (e.g. Simpson Strong-Tie® or Roseburg's EWP®) or engineering analysis for other conditions. Refer to the Engineering Wood section of the Roseburg website (www.roseburg.com) for additional information.

2. The allowable spans in Table 1 are for applications with a live load of 40 psf and a dead load of 10 psf. The allowable spans in Table 2 are for applications with a live load of 40 psf and a dead load of 10 psf.

3. Deflection under live load is limited to L/480.

4. Maximum spans shown are clear distances between supports.

5. For multiple-span applications the end spans must be at least 40% or more of the adjacent span.

6. Multiple span lengths shown require the installation of system. Then, block building materials over beams or walls only. See APA Technical Note number 173 (Temporary Construction Loads Over I-Joist Roofs and Floors) for additional information regarding proper blocking of building materials.

7. Spans are based on a composite floor with glued-nailed sheathing meeting the requirements for APA Rated Sheathing or APA Rated STUARD® FLOOR conforming to P19-108, PS 1, or PS 2 with a minimum thickness of 1/2" (3/4" for 40/20 or 24/8). Adhesive must meet APA Specification AF-60 or ASTM D4488. Reduce spans by 1 foot when floor sheathing is nailed only.

8. Web stiffeners are not required when RFPFI-Joists are used according to the spans and spacings found in Tables 1 & 2 except as noted in this Installation Guide.

9. Units conversion: 1 inch = 25.4 mm, 1 foot = 0.305 m.

10. Do not RFPFI-Joist bundles by top flange.

11. When handling I-joists with a crane ("picking"), take a few simple precautions to prevent damage to the I-joists and injury to your work crew:

12. Pick I-joists in the bays as carried by the supplier.

13. Orient the bundles so that the web of the I-joist are vertical.

14. Pick the bundles at the 5th points, using a spreader bar if necessary.

15. Do not stack LVL bundles on top of I-joist bundles. NEVER USE A DAMAGED I-JOIST OR LVL. All field repairs must be approved by a Design Professional.

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