**SAFETY AND CONSTRUCTION PRECAUTIONS**

**WARNING**

- The Manufacturer makes no warranties of any kind, express or implied, regarding the use of this material on which it is published. It is the responsibility of the installer to verify the proper installation of this material.

**IMPORTANT**

- Before using Nordic I-joists, visit the Nordic Home/Commercial website or www.chibucan.com for the latest sales/buying information, technical data, and specifications. The information contained in this guide is subject to change without notice and it is not intended to be exhaustive or all-inclusive. Please refer to the manufacturer’s product literature for complete details.

**INSTALLATION GUIDE FOR RESIDENTIAL FLOORS**

**INSTALLING NORDIC I-JOISTS**

1. Before laying out floor space components, verify that 1-1/2" nails are used. The use of 1-1/4" nails is not recommended.

2. For each section, place the center of the I-joists at the center of the bay. If the bay is not centered, the I-joists should be placed at the center of the bay.

3. When laying out the floor space, use a straight edge to ensure that the I-joists are laid out correctly.

**STORAGE AND HANDLING GUIDELINES**

1. Handle roof can be shipped in any quantity. Roof should be stored on a flat surface.

2. All nails used to install roof should be at least 8d and 2-1/2" in length.

3. To ensure proper alignment, all roof dimensions should be within 1/2 inch of true vertical alignment.

4. Nails shall be checked for rust before installation.


6. If I-joists are installed in an area where moisture is present, the roof should be installed with 1-1/2" nails at 6" o.c.

7. Nails should be driven no more than 1-1/2" from the edge of the I-joist to prevent damage to the roof.

8. I-joists shall be installed with a minimum of two nails on each side, including the top and bottom flanges.

9. Roof shall be installed with a minimum of two nails on each side, including the top and bottom flanges.

10. Roof shall be installed with a minimum of two nails on each side, including the top and bottom flanges.

**WEB STIFFENERS**

- Web stiffeners are required when the flange width is less than the normal (10-year load duration). It shall not be used in any load duration.

- The manufacturer recommends the use of web stiffeners when the flange width is less than the normal (10-year load duration). It shall not be used in any load duration.

**ALLOWABLE SPANS**

<table>
<thead>
<tr>
<th>Flange Width</th>
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<th>Multiple Span</th>
</tr>
</thead>
<tbody>
<tr>
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SI units conversion: 1 inch = 25.4 mm

**J-OST HANGERS**

1. Hangers shown illustrate the three most common hanger manufacturers’ recommendations.

2. In addition to the hinge shown, the manufacturer also recommends that the hanger be used with the top flange of the I-joist.

3. Web stiffeners are required when hanger sides laterally support the I-joist.

**BACKER BLOCKS**

- Backer blocks are used to support the I-joist in areas where the load exceeds 250 lbs.

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**CONCENTRATED LOADS**

- Concentrated loads shall be applied to the I-joist at the center of the load.

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**ALLOWABLE SPANS FOR NORDIC I-JOISTS**

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**FIGURE 1**

- Use hangers recognized by the manufacturer in the design of a bending member, such as joist, header, or rafter. For bending members, such as joist, header, or rafter, the manufacturer recommends the use of web stiffeners when the flange width is less than the normal (10-year load duration). It shall not be used in any load duration.

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**FIGURE 2**

- Use hangers recognized by the manufacturer in the design of a bending member, such as joist, header, or rafter. For bending members, such as joist, header, or rafter, the manufacturer recommends the use of web stiffeners when the flange width is less than the normal (10-year load duration). It shall not be used in any load duration.

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### CANTELEVER DETAILS FOR BALCONIES (NO WALL LOAD)

**Cantilever Details**

**Notes:**
- For I-joist supports, use 8d nails at 6" o.c. per detail 1b.
- Join I-joists with sheathing by attaching the sheathing to the joist. Nail with 8d nails at 6" o.c. per detail 1g.
- Use same installation as Method 1 but reinforce both sides of I-joist with sheathing.
- Exterior panel closure: see detail 1h. Nail with 2 rows of 10d nails at 6" o.c. and clinch.

**Installation of the Glued Floor System**

1. **Nailing**:
   - Use nailing as specified in the manufacturer's recommendations.
   - Ensure field joints are properly staggered 1/2".

2. **Reinforcement**
   - Use the appropriate Simpson Strong-Tie hardware per detail 1b.
   - Check the manufacturer's recommendations for cure time. (Warm weather accelerates glue setting.)
   - Use 6d ring- or screw-shank nails for panels without glue bond.

3. **Girder Spacing**
   - Use 24" o.c. or less for I-joist reinforcement.
   - Use 36" o.c. for girder joist per detail 1b.

4. **Rim Board**
   - 1 1/2" minimum thickness required except where otherwise specified.
   - Use the appropriate rim board per detail 1b.

**Web Holes**

- Web holes may be used for nailing or as an access hole for electrical or small plumbing lines. They are not used as an architectural element.

**Minimum Distance from Inside Face of Supports**

- Minimum distance from inside face of any support to center of hole (ft-in.)

**Structural Panel Closure**

- Use the appropriate structural panel closure per detail 1h.

**Rim Board Installation Details**

- Rim board detail: see detail 2b.
- Rim board attachment: see detail 2b.

**Additional Method 3 — DOUBLE CANTILEVER**

- Rim board or wood structural panel closure (see detail 1h).
- Nail with 2 rows of 10d nails at 6" o.c. and clinch.

**Cantilever Reinforcement Method Allowed**

- Use the appropriate Simpson Strong-Tie hardware per detail 1b.
- Check the manufacturer's recommendations for cure time.

**Bac**

- Use the appropriate Bac material per detail 1b.

**CAUTION:**

- Use caution around field joints where the joist interference is 3-1/2" and minimum.

**PRODUCT WARRANTY**

- Contact the manufacturer for the warranty details.