SAFETY AND CONSTRUCTION PRECAUTIONS:

**WARNING:**

1. Use only Nordic Engineered Wood I-Joists installed in accordance with these guidelines.
2. A qualified installer should be fully informed of structural requirements, and must follow the instructions in this guide.
3. The manufacturer is not responsible for any damage or injury due to improper handling, installation, or use of the product.

**Adherence to Following These Important Precautions:**

1. **Hangers** - when using hangers, seat I-joists firmly in hanger bottoms to minimize settlement. Hangers should only be used as described in this guide.

**Maximum Floor Spans for Nordic I-Joists**

<table>
<thead>
<tr>
<th>Maximum Floor Span</th>
<th>Bearing Plate Width</th>
<th>Bearing Plate Depth</th>
<th>Bearing Stiffener</th>
<th>Minimum Bearing</th>
<th>Manufacturer’s Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>5’-0”</td>
<td>5”</td>
<td>2-1/8”</td>
<td>2-1/2”</td>
<td>2-1/4”</td>
<td>1-1/4”</td>
</tr>
<tr>
<td>7’-0”</td>
<td>5”</td>
<td>2-1/8”</td>
<td>2-1/2”</td>
<td>3-1/4”</td>
<td>1-3/4”</td>
</tr>
<tr>
<td>9’-0”</td>
<td>5”</td>
<td>2-1/8”</td>
<td>2-1/2”</td>
<td>4-1/4”</td>
<td>1-5/8”</td>
</tr>
<tr>
<td>11’-0”</td>
<td>5”</td>
<td>2-1/8”</td>
<td>2-1/2”</td>
<td>5-1/4”</td>
<td>1-7/8”</td>
</tr>
<tr>
<td>13’-0”</td>
<td>5”</td>
<td>2-1/8”</td>
<td>2-1/2”</td>
<td>6-1/4”</td>
<td>1-9/8”</td>
</tr>
</tbody>
</table>

**Maximum Floor Spans for Nordic I-Joists (Cont.)**

<table>
<thead>
<tr>
<th>Maximum Floor Span</th>
<th>Bearing Plate Width</th>
<th>Bearing Plate Depth</th>
<th>Bearing Stiffener</th>
<th>Minimum Bearing</th>
<th>Manufacturer’s Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>13’-0”</td>
<td>5”</td>
<td>2-1/8”</td>
<td>2-1/2”</td>
<td>6-1/4”</td>
<td>1-9/8”</td>
</tr>
<tr>
<td>15’-0”</td>
<td>5”</td>
<td>2-1/8”</td>
<td>2-1/2”</td>
<td>7-1/4”</td>
<td>1-11/8”</td>
</tr>
<tr>
<td>17’-0”</td>
<td>5”</td>
<td>2-1/8”</td>
<td>2-1/2”</td>
<td>8-1/4”</td>
<td>1-13/8”</td>
</tr>
</tbody>
</table>

**Recommended Bracing:**

1. **Erection bracing** shall be provided at a minimum of 20’ on centre.
2. **Intermediate supports** shall be provided at a minimum of 20’ on centre.
3. **Lateral restraint** shall be provided at a minimum of 20’ on centre.

**Bracing Requirements:**

- **End supports** shall be provided at a minimum of 20’ on centre.
- **Intermediate supports** shall be provided at a minimum of 20’ on centre.
- **Lateral restraint** shall be provided at a minimum of 20’ on centre.

**Floor Sheathing:**

1. **Non-combustible** sheathing shall be provided.
2. **Combustible** sheathing shall be provided at a minimum of 20’ on centre.

**Floor Joists:**

1. **Maximum span** shall be based on the manufacturer’s specifications.
2. **Minimum bearing** shall be determined by the manufacturer’s specifications.

**Blocking and Lumber Grades:**

1. **Blocking** shall be provided as required by the manufacturer’s specifications.
2. **Lumber Grades** shall be provided as required by the manufacturer’s specifications.

**Reinforcing Braces:**

1. **Reinforcing braces** shall be provided as required by the manufacturer’s specifications.
2. **Reinforcing braces** shall be provided as required by the manufacturer’s specifications.

**Concrete Topping:**

1. **Concrete topping** shall be provided as required by the manufacturer’s specifications.
2. **Concrete topping** shall be provided as required by the manufacturer’s specifications.

**Structural Design:**

1. **Structural design** shall be provided by the manufacturer’s specifications.
2. **Structural design** shall be provided by the manufacturer’s specifications.

**Local Code Requirements:**

1. **Local code requirements** shall be provided by the manufacturer’s specifications.
2. **Local code requirements** shall be provided by the manufacturer’s specifications.

**Material Specifications:**

1. **Material specifications** shall be provided by the manufacturer’s specifications.
2. **Material specifications** shall be provided by the manufacturer’s specifications.

**Engineered Wood Products:**

1. **Engineered wood products** shall be provided by the manufacturer’s specifications.
2. **Engineered wood products** shall be provided by the manufacturer’s specifications.

**Material Protection:**

1. **Material protection** shall be provided by the manufacturer’s specifications.
2. **Material protection** shall be provided by the manufacturer’s specifications.

**Installation Guidelines:**

1. **Installation guidelines** shall be provided by the manufacturer’s specifications.
2. **Installation guidelines** shall be provided by the manufacturer’s specifications.

**Manufacturers’ Specifications:**

1. **Manufacturers’ specifications** shall be provided by the manufacturer’s specifications.
2. **Manufacturers’ specifications** shall be provided by the manufacturer’s specifications.

**Design Properties:**

1. **Design properties** shall be provided by the manufacturer’s specifications.
2. **Design properties** shall be provided by the manufacturer’s specifications.

**Load Calculations:**

1. **Load calculations** shall be provided by the manufacturer’s specifications.
2. **Load calculations** shall be provided by the manufacturer’s specifications.

**Testing Procedures:**

1. **Testing procedures** shall be provided by the manufacturer’s specifications.
2. **Testing procedures** shall be provided by the manufacturer’s specifications.

**Approval Procedures:**

1. **Approval procedures** shall be provided by the manufacturer’s specifications.
2. **Approval procedures** shall be provided by the manufacturer’s specifications.

**Quality Control:**

1. **Quality control** shall be provided by the manufacturer’s specifications.
2. **Quality control** shall be provided by the manufacturer’s specifications.

**Safety Precautions:**

1. **Safety precautions** shall be provided by the manufacturer’s specifications.
2. **Safety precautions** shall be provided by the manufacturer’s specifications.
CANTILEVER DETAILS FOR BALCONIES (NO WALL LOAD)

METHOD 1 — SHEATHING REINFORCEMENT ONE SIDE

1. Fasten to minimum bearing with nails.
2. Stagger nail lines 1" on each side of bearing join.
3. Use minimum 16d nails (4 per foot). Total nail load must not be more than 5% of floor live load.
4. Sheathing must be nailable on both sides. Sheathing must overlap I-joist web by 3".

METHOD 2 — SHEATHING REINFORCEMENT TWO SIDES

1. Fasten to minimum bearing with nails.
2. Stagger nail lines 1" on each side of bearing join.
3. Use minimum 16d nails (4 per foot). Total nail load must not be more than 5% of floor live load.
4. Sheathing must be nailable on both sides. Sheathing must overlap I-joist web by 3".

Notes:
- Rim board or wood block shall be used as the vertical solid sawn blocks.
- Method 2 is required if the cantilever exceeds 2'–0".
- Method 2 shall be used for cantilevered joists.
- Minimum bearing area shall be required. Full bearing shall be required. Full bearing shall be required on all supports.
- Fasten all supports per detail.
- All joists shall be nailable on both sides.
- Sheathing must be nailable on both sides.
- Sheathing must overlap I-joist web by 3".

WEB HOLES

1. Do not cut into the flange of the panel at the point of attachment of a stud or a header. A stud shall be placed inside the edge of the panel.
2. Fasten through joist web and web of girder. Vertical solid sawn blocks are required to facilitate cutting. Note: Rim board or wood block shall be used as the vertical solid sawn blocks.

Notes:
- Rim board or wood block shall be used as the vertical solid sawn blocks.
- For larger openings, or multiple 3'-0" width door openings, use Method 3.
- Spread only enough glue to lay one or two panels at a time, or follow specific recommendations from the manufacturer.
- Use only adhesives conforming to CAN/CGSB-71.26 Standard, Adhesives for Field-Gluing Plywood to Structures. See Table 2.
- For sheathing, use at least 1/8-inch in diameter screws. Fasteners of sheathing and subflooring shall conform to the above table.
- For Method 3, use minimum 16d nails (4 per foot). Total nail load must not be more than 5% of floor live load.
- Sheathing must be nailable on both sides. Sheathing must overlap I-joist web by 3".

INSTALLING THE GLOOF FLOOR SYSTEM

1. Startup must be at least 3'-0" from the wall.
2. Spread only through glue run in a panel at a time, as follows recommendations from the manufacturer.
3. Bead on the floor must be wide enough to cover the glue line.
4. Snap a chalk line across the I-joists four feet in from the wall for panel edge alignment and as a guide for nailing the sheathing.
5. Apply continuous bead of glue (about 1/8" thick) to the top flange of a single joist. Apply a second bead of glue to the top flange of the next joist, being careful not to overlap the glue on the edge of the joist.

Notes:
- The floor must be level and free from any defects.
- Staples shall not be less than 1/16-inch in diameter, with not less than a 3/8-inch crown.
- Flooring screws shall not be less than 1/16 inch in diameter.
- Rim board installation details may be required as noted in the manufacturer’s recommendations.

IMPORTANT NOTES:
- Waterproofing must be placed below the floor slab to prevent water from entering the building.
- Fasteners, including adhesives, must be placed at least 1/4" from the top of the stair, and not less than 1/2" from the edge of the stair. A stair tread must be at least 1/4" from the edge of the stair.
- All joists and beams shall be nailable on both sides.
- Sheathing must be nailable on both sides. Sheathing must overlap I-joist web by 3".

RIM BOARD INSTALLATION DETAILS

1. Fasten rim board using a continuous bead of glue at the connection to the roof truss. Screws shall be at least 3/4" long, with not less than a 3/8" crown.
2. Use approved screws and fasteners as noted in the manufacturer’s recommendations.
3. Fasteners of sheathing and subflooring shall be nailable on both sides. Sheathing must overlap I-joist web by 3".

Notes:
- Rim board shall be a minimum of 1/4" thick, with not less than a 3/8" crown.
- Fasteners shall be at least 3/4" long, with not less than a 3/8" crown.
- Flooring screws shall not be less than 1/16 inch in diameter.
- All joists and beams shall be nailable on both sides.
- Sheathing must be nailable on both sides. Sheathing must overlap I-joist web by 3".