The LSSH series connects rafters to ridge beams in vaulted roof structures. This series is field adjustable to meet a variety of skew and/or slope applications. Slopes and skews 0° to 45°.

### Materials:
- See chart

### Finish:
- G-185 galvanizing

### Options:
- See chart for Corrosion Finish Options

### Codes:
- IBC, FL, LA

### Installation:
1. **Use all specified fasteners. See Product Notes, page 18.**

### Steps:
1. Position LSSH connector against plumb-cut end of joist. Fasten joist side flanges on both sides with 10d (0.148") x 1-1/2" nails. Bend seat up to fit against joist bottom and drive (1) 10d (0.148") x 1-1/2" nail through bottom seat into rafter bottom. Drive (2) 10d (0.148") x 1-1/2" nails at downward angle through dimpled nailing guides.

2. **Lean connector and rafter end against ridge beam at desired position. Install specified 10d (0.148" x 3") or 16d (0.162" x 3-1/2") nails through nail holes into ridge beam at right 90° angle.** If skewing the rafter, only drive nails into ridge beam on inside flange.

3. **Bend flange to desired angle.**

4. **Hammer outside flange until edge touches header. Fasten outside flange to ridge by driving specified 10d (0.148" x 3") or 16d (0.162" x 3-1/2") nails through nail holes.**

- Web stiffeners are required for all wood I-Joist installations.
- **Designer may consider adding a tension restraint for the supported member for roof slopes exceeding 6/12. Refer to page 122.**

### Fastener Schedule

<table>
<thead>
<tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100%</td>
<td>115%</td>
<td>125%</td>
<td>160%</td>
</tr>
<tr>
<td>1-1/2</td>
<td>LSSH15-TZ</td>
<td>LSSHJ28LZ, LSSHJ28RZ</td>
<td>18</td>
<td>1-9/16</td>
<td>1-3/4</td>
<td>6</td>
<td>10d HDG</td>
<td>7</td>
<td>10d x 1-1/2 HDG</td>
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<tr>
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<td>LSSH15-TZ</td>
<td>LSSHJ28LZ, LSSHJ28RZ</td>
<td>18</td>
<td>1-9/16</td>
<td>1-3/4</td>
<td>10</td>
<td>10d</td>
<td>7</td>
<td>10d x 1-1/2</td>
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<td>1-9/16</td>
<td>1-3/4</td>
<td>10</td>
<td>10d</td>
<td>7</td>
<td>10d x 1-1/2</td>
</tr>
<tr>
<td>2-1/8</td>
<td>LSSH20-TZ</td>
<td>LSSHJ28LZ, LSSHJ28RZ</td>
<td>18</td>
<td>2-1/16</td>
<td>2-1/2</td>
<td>10</td>
<td>10d</td>
<td>7</td>
<td>10d x 1-1/2</td>
</tr>
<tr>
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<td>LSSH23-TZ</td>
<td>LSSHJ28LZ, LSSHJ28RZ</td>
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<td>2-1/2</td>
<td>10</td>
<td>10d</td>
<td>7</td>
<td>10d x 1-1/2</td>
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<td>2-1/16</td>
<td>2-1/2</td>
<td>10</td>
<td>10d</td>
<td>7</td>
<td>10d x 1-1/2</td>
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<td>LSSHJ28LZ, LSSHJ28RZ</td>
<td>18</td>
<td>2-1/16</td>
<td>2-1/2</td>
<td>10</td>
<td>10d</td>
<td>7</td>
<td>10d x 1-1/2</td>
</tr>
<tr>
<td>3-1/2</td>
<td>LSSH28-TZ</td>
<td>LSSHJ28LZ, LSSHJ28RZ</td>
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<td>2-1/16</td>
<td>2-1/2</td>
<td>10</td>
<td>10d</td>
<td>7</td>
<td>10d x 1-1/2</td>
</tr>
</tbody>
</table>

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
2) Stainless steel ring shank nails must be used with stainless steel connectors to achieve tabulated allowable loads.
3) **NAILS:** 10d x 1-1/2" nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3-1/2" long. New products or updated product information are designated in **blue font.**

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**Typical LSSH179 installation**

**LSSH210**

**LSSH35**

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**SLOPED ONLY HANGERS**

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**SLOPED & SKewed HANGERS**

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**Corrosion Finish**
- Stainless Steel
- Gold Coat
- HDG
- Triple Zinc