Framing Angles and Plates

The larger LTP5 spans subfloor at the top of the blocking or rim board. The embossments enhance performance.

The LTP4 Lateral Tie Plate transfers shear forces for top plate-to-rim board or blocking connections. Nail holes are spaced to prevent wood splitting for single and double top plate applications. May be installed over plywood sheathing.

The A35 angle’s exclusive bending slot allows instant, accurate field bends for all two- and three-way ties. Balanced, completely reversible design permits the A35 to secure a great variety of connections.

**Material:** LTP4/LTP5 — 20 gauge; all others — 18 gauge

**Finish:** Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 15–18.

**Installation:**
- Use all specified fasteners; see General Notes
- A35 — Bend one time only

**Codes:** See p. 14 for Code Reference Key Chart

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1. Joists to Plate with A Leg Inside
2. Studs to Plate with B Leg Outside
3. Joists to Beams
4. Ceiling Joists to Beam
5. A35
6. LTP4 Installed over Wood Structural Panel Sheathing
7. LTP5 Installed over Wood Structural Panel Sheathing

1/4” minimum 24/0 APA-rated wood structural panel sheathing
## Framing Angles and Plates (cont.)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Type of Connection</th>
<th>Fasteners</th>
<th>Direction of Load</th>
<th>DF/SP Allowable Loads</th>
<th>SPF/HF Allowable Loads</th>
<th>Code Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A34</td>
<td>(8) 8d x 1½&quot;</td>
<td>F₁</td>
<td>Floor (100)</td>
<td>395</td>
<td>340</td>
<td>IP₁, L₅, L₁₈, FL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F₂</td>
<td>Roof (125)</td>
<td>485</td>
<td>415</td>
<td></td>
</tr>
<tr>
<td>LTP4</td>
<td>(12) 8d x 1½&quot;</td>
<td>F₁</td>
<td>(160)</td>
<td>515</td>
<td>445</td>
<td></td>
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<tr>
<td>LTP5</td>
<td>(12) 8d x 1½&quot;</td>
<td>F₂</td>
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<td>515</td>
<td>445</td>
<td></td>
</tr>
</tbody>
</table>

1. Allowable loads are for one angle. When angles are installed on each side of the joint, the minimum joint thickness is 3”.
2. Some illustrations show connections that could cause cross-grain tension or bending of the wood during loading if not reinforced sufficiently. In this case, mechanical reinforcement should be considered.
3. LTP4 can be installed over ¾” wood structural panel sheathing with 8d x 1½” nails and achieve 0.72 of the listed load, or over 1½” and achieve 0.64 of the listed load. 8d commons will achieve 100% load.
4. LTP4 satisfies the IRC continuously sheathed portal frame (CS-PF) framing anchor requirements when installed over raised wood floor framing per Figure R602.10.6.4.
5. The LTP5 may be installed over wood structural panel sheathing up to 1¼” thick using 8d x 1½” nails with no reduction in load.
6. Connectors are required on both sides to achieve F₂ loads in both directions.

### Fasteners:
- Fasteners: 8d x 1½” = 0.131” dia. x 1½” long; SPAX #6 x ⅛” = 0.138” dia. x ¼” long. See pp. 26–27 for other nail sizes and information.

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![A34 Uplift Installation](image)

![Chimney Framing](image)