Residential Attached Patio Cover Illustration
(Example only)

Purpose
The sample illustrations show how an attached unenclosed patio structure may be built using conventional light wood-frame construction guidelines. The conventional method allows “repetitive” members in the designs of walls, floors and ceiling; they are prescriptive and do not ordinarily require a structural design to comply with the code. For information regarding plan submittals and specific design limitations for residential patio covers refer to handout on “Plan Submittal for Detached and Attached Accessory Structures”.

Patio Cover Limitations
The following patio cover illustrations are only applicable in residential dwellings classified as R-3 Occupancies. Patio covers are not designed or intended to be used as room additions which require compliance with code provisions such as heating, waterproofing, and normal live and wind loads. Furthermore, patio covers cannot always be converted to complying room additions.
Verify with Zoning for Minimum Setback Dimensions

Fire Protection Required if Less Than 5'-0" to P.L.

PROPERTY LINE

Existing Door Opening – Set Beam Height at Patio Roof So Roof Framing Clears Head Heights for Exiting, Screen Door Swings, etc.

Continuous Footing: #4 Bars Top & Bottom or 12"x12" Pad Footing @ Ea. Post

3-1/2" Conc. Slab, 6X6-10/10 W.W.M. 4" Gravel

#4 Rebar Drill Into (E) w/ Epoxy

2x4 Blocking @ 4'-0" o.c.

26 GA. Galv. Flashing Strip

Double-Shear Joist Hanger

2x Ledger w/ 1/2" x 5" Lag Bolt Ea. Stud

Sealant

2x4 Blocking @ 4'-0" o.c.

2X Blk'g w/ I.C.C. Approved Framing Anchor at Ea. Blk.

4X Header w/ 1. Approved Column Cap Installed per Manf. Specs, or 2. Approved T-Strap Both Sides Installed per Manf. Specs, or 3. Approved Post Cap Installed per Manf. Specs Both with Knee Braces at ea. Corner

4x4 Post

5'-0" Min. per CRC Setback May Vary per Local Zoning Ordinance

Side Clearance per Manf. Recommendations

For Unenclosed Patio: No Min. if Foundation Grade Pressure-Treated Lumber or Clear Heart Redwood Post Used

#4 Bars Drill Into (E) w/ Epoxy

3-1/2" Conc. Slab, 6X6-10/10 W.W.M. 4" Gravel

CROSS-SECTION (REFER TO TABLE ON PG. 3)
ALLOWABLE SPANS FOR DF #2 ROOF RAFTERS

Light Dead Load (up to 10 psf) /Max. Roofing Load: 6 psf
(Ashphalt Shingles)
Live Load: 20 psf

<table>
<thead>
<tr>
<th>RAFTER SIZE</th>
<th>SPACING</th>
<th>ALLOWABLE SPAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>2x6</td>
<td>24&quot;</td>
<td>11' - 11&quot;</td>
</tr>
<tr>
<td></td>
<td>16&quot;</td>
<td>14' - 7&quot;</td>
</tr>
<tr>
<td></td>
<td>12&quot;</td>
<td>16' - 10&quot;</td>
</tr>
<tr>
<td>2x8</td>
<td>24&quot;</td>
<td>15' - 1&quot;</td>
</tr>
<tr>
<td></td>
<td>16&quot;</td>
<td>18' - 5&quot;</td>
</tr>
<tr>
<td></td>
<td>12&quot;</td>
<td>21' - 4&quot;</td>
</tr>
<tr>
<td>2x10</td>
<td>24&quot;</td>
<td>18' - 5&quot;</td>
</tr>
<tr>
<td></td>
<td>16&quot;</td>
<td>22' - 6&quot;</td>
</tr>
<tr>
<td></td>
<td>12&quot;</td>
<td>26' - 0&quot;</td>
</tr>
<tr>
<td>2x12</td>
<td>24&quot;</td>
<td>21' - 4&quot;</td>
</tr>
<tr>
<td></td>
<td>16&quot;</td>
<td>26' - 0&quot;</td>
</tr>
<tr>
<td></td>
<td>12&quot;</td>
<td>Span exceeds 26&quot; in length</td>
</tr>
</tbody>
</table>

Type V construction is a classification of buildings by construction materials and methods. It is the least restrictive permitted by the California Residential Code and includes light, wood-frame construction. This sheet is for information and reference only and is not a substitute for accurate drawings prepared for each proposed construction project.
See CRC Table R802.5.1(1) for more information.

ALLOWABLE SPANS FOR DF #1 HEADERS

Maximum Span of Tributary Load: 20'-0"

<table>
<thead>
<tr>
<th>SPAN</th>
<th>BEAM SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 4'-0&quot;</td>
<td>4x4</td>
</tr>
<tr>
<td>4'-1&quot; to 6'-0&quot;</td>
<td>4x6</td>
</tr>
<tr>
<td>6'-1&quot; to 8'-0&quot;</td>
<td>4x8</td>
</tr>
<tr>
<td>8'-1&quot; to 10'-0&quot;</td>
<td>4x10</td>
</tr>
<tr>
<td>10'-1&quot; to 12'-0&quot;</td>
<td>4x12*</td>
</tr>
</tbody>
</table>

*4x12 DF No. 1 may be used over a 16'-0" garage door in one-story open patio or carport structures.

ALTERNATE CONNECTION DETAIL
(TYPICAL FOR PATIO COVERS)

- Extend Roofing Min. 4" Beyond Edge of Flashing
- 26 GA. Galv. Flashing Min. 4" Beyond Roof Joint
- Slope (1/4"/ft)
- Rolled/Torch-Down or Built-Up Roof
- 1/2 CDX Ply Sheathing (Min.)
- 2X Roof Rafters
- Double-Shear Joist Hanger
- 2x Ledger w/ 1/2 x 5" Lag Bolt @ 16" o.c. to Top Plate

TRELLIS CONNECTION DETAIL
(TYPICAL FOR TRELLISES)

- Trellis Member with 3-d Toed Nailed
- Trellis Member with Framing Angle
- Header with Post Cap
- Post