City of Hazelwood
2015 International Residential Code
Deck Details

GUARD REQUIREMENTS
All decks greater than 30” above grade are required to have a guard. If you are providing a guard when one is not required, it must meet these requirements. All guards shall be constructed in strict conformance with the details herein; any deviations require a plan submission.

TYPICAL GUARD DETAIL

4x4 post, typical
DO NOT NOTCH

6'-0" maximum spacing
rail cap: 2x6, 5/4 board or approved manufactured material

2x2 pickets; may be placed on either side of guard

2x4 top and bottom; may be placed on either side of guard post; attach to post with (2) 8d ring-shank nails or (2) #8 wood screws

(2) 3/4" diameter through-bolts and washers

openings shall not allow the passage of a 4" diameter sphere; wet lumber must be spaced such that when shrinkage occurs, the maximum opening is maintained

attach pickets at top and bottom with (1) #8 wood screw or (2) 8d ring-shank nails with a 0.135” nominal diameter

UNLESS 6” x 6” POST

Revised June 5, 2019
STAIR AND HANDRAIL DETAIL

TYPICAL STAIR
Stringers attached at top with non-corrosive metal straps or joist hangers and bottom on concrete pad.

Stringers shall be a minimum of 3 - 2” x 12”
PIER/POST DETAIL

Minimum 10” diameter and 30” below grade

Pressure-treated post–uncut end down
Galvanized or stainless-steel post base keeps post off concrete and prevents wind uplift
Top of pier slightly above grade
Footing rests on undisturbed soil below frost line

6” x 6” POSTS REQUIRED
(Decks 8’ or more above grade)

FLASHING DETAIL

(Non-Corrosive)

Deck Spans up 10'-0” - Bolts 18” on Center
Deck Spans up 10'-1 to 12'-0” - Bolts 15” on Center
Deck Spans up 12'-1 to 14'-0” - Bolts 13” on Center
Deck Spans up 14'-1 to 16'-0” - Bolts 11” on Center
Deck Spans up 16'-1 to 18'-0” - Bolts 10” on Center
LEDGER LATERAL DECK ATTACHMENT DETAIL

Minimum Two (2) per deck within 24’’ of each end
Each device shall have an allowable stress design capacity of not less than 1500lb.

For SI: 1 inch = 25.4 mm.

FIGURE 507.2.3(1)
DECK ATTACHMENT FOR LATERAL LOADS
6”x 6” POST BEAM DETAIL
All posts/beams attached with two ½” through bolts.

4”x4” POST BEAM DETAIL
Typical 4”x4” to BEAM connection

REQUIREMENTS FOR FRAMING AT BAY WINDOW

DOUBLE JOIST “H” FRAME
Required at all bay windows or cantilevers

Revised June 5, 2019
CANTILEVER DESIGN WHEN PERPENDICULAR AND LOAD CARRIED BY INTERIOR DOUBLE JOISTS (Minimum 2/3 in 1/3 out)

Interior SPAN TABLE (Treated Yellow Pine)

<table>
<thead>
<tr>
<th>JOIST SPAN TABLE</th>
<th>BEAM SPAN TABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Joist Span</strong></td>
<td><strong>Maximum Beam Span</strong></td>
</tr>
<tr>
<td>2x6s @ 16”</td>
<td>9’ 0”</td>
</tr>
<tr>
<td>2x6s @ 24”</td>
<td>7’ 7”</td>
</tr>
<tr>
<td>2x8s @ 16”</td>
<td>11’ 10”</td>
</tr>
<tr>
<td>2x8s @ 24”</td>
<td>9’ 8”</td>
</tr>
<tr>
<td>2x10s @ 16”</td>
<td>14’ 0”</td>
</tr>
<tr>
<td>2x10s @ 24”</td>
<td>11’ 5”</td>
</tr>
<tr>
<td>2x12s @ 16”</td>
<td>16’ 6”</td>
</tr>
</tbody>
</table>
**ALL OVERHEAD ELECTRICAL WIRES**
Electrical Wires over the deck and over an area projecting three (3) feet horizontally from the deck must be at least 10 feet above finished deck.

ALL WOOD TO BE PRESSURE TREATED OR NATURALY DURABLE

ALL FASTENERS AND METAL TO BE CORROSIVE RESISTANT

THESE DETAILS MAY NOT INCLUDE ALL DECK REQUIREMENTS AND SHOULD ONLY BE USED AS A GUIDE.

Protecting the Health, Safety and Welfare of our City!