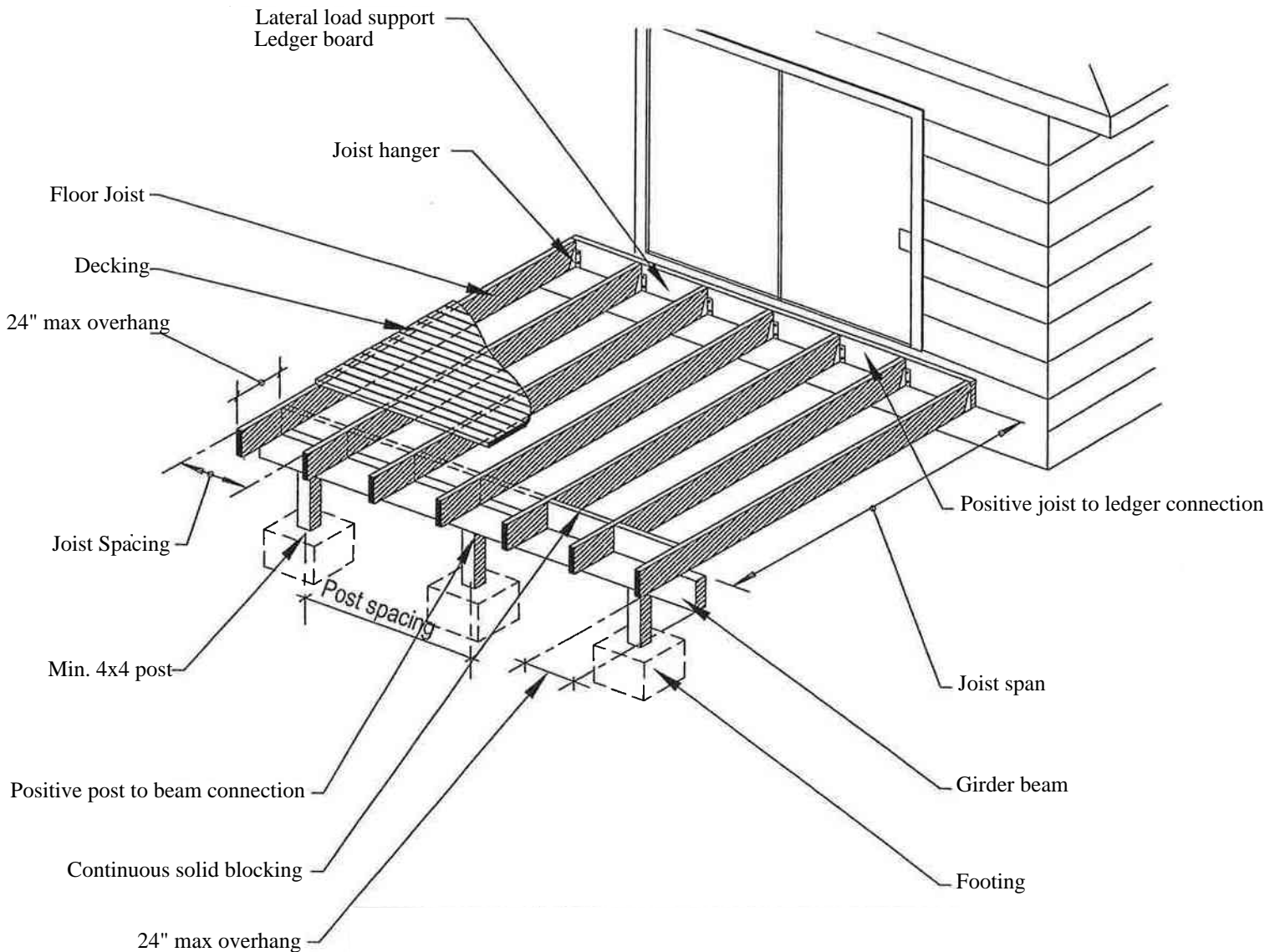


BASIC DECK

Building Division

The following details are examples of the code requirements based on the 2012 International Residential Code for single story decks. The 2012 International Residential Code Section R507 contains additional information and details specific to deck construction.

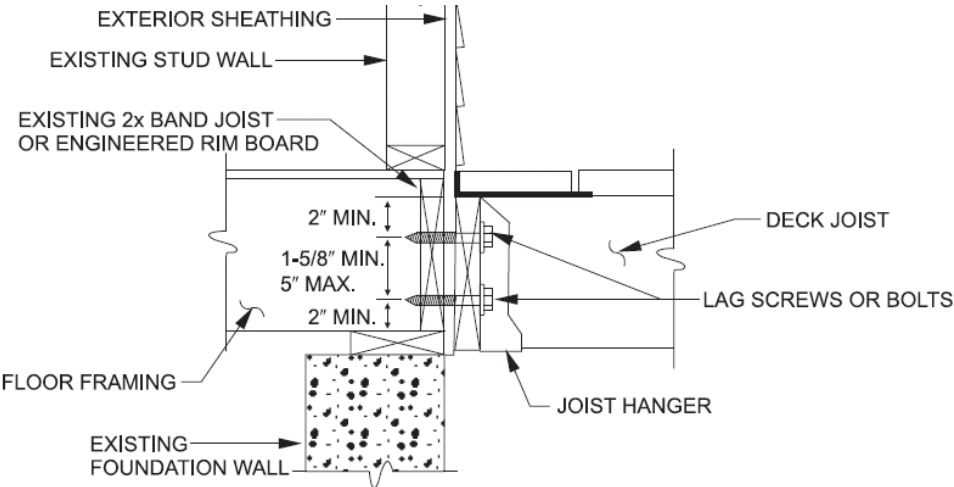


Typical Deck

ATTACHMENTS:
Example of a deck ledger connection to rim/band joist.

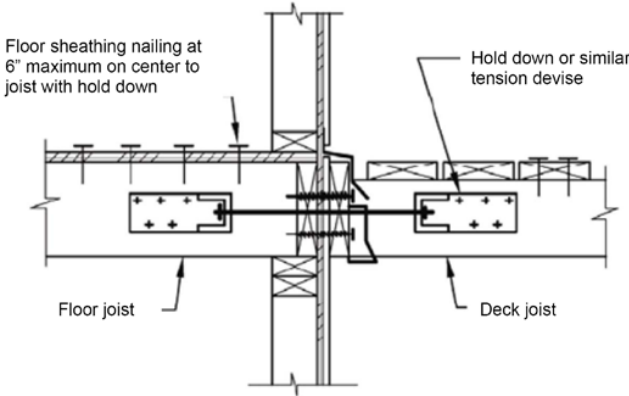
Basic Deck

IRC Figure R507.2.1(2)



Example of a lateral load device for a deck attached to a house with a ledger.

IRC Figure R507.2.3



***State amendment to IRC R507.2.3 provides alternative lateral connection for new decks to existing houses.**

*State amendment to IRC R507.2.3 provides alternative lateral connection for new decks to existing houses.

Basic Deck

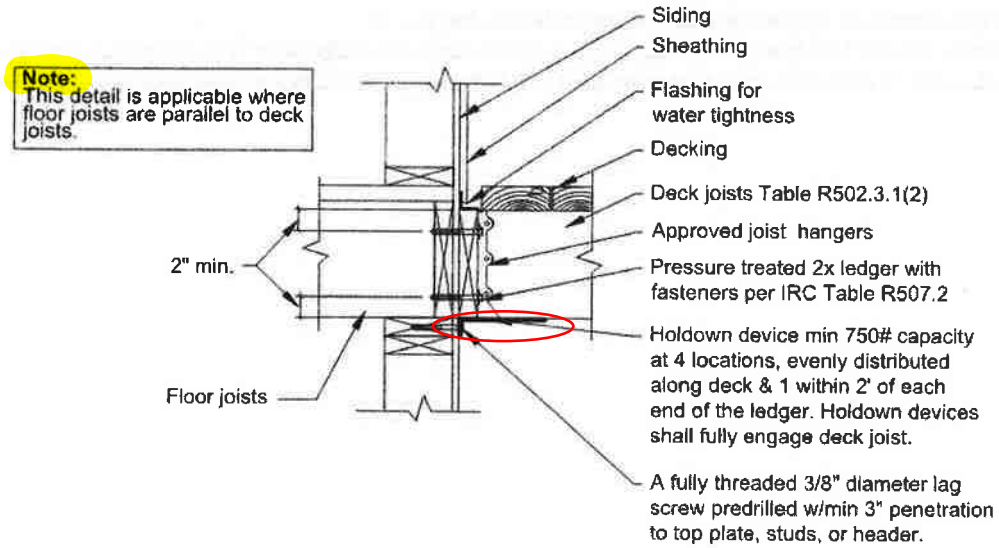


Figure R507.2.3(2)

TABLE R507.2
FASTENER SPACING FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER AND
A 2-INCH-NOMINAL SOLID-SAWN SPRUCE-PINE-FIR BAND JOIST^{c, f, g}
(Deck live load = 40 psf, deck dead load = 10 psf)

JOIST SPAN	6' and less	6'1" to 8'	8'1" to 10'	10'1" to 12'	12'1" to 14'	14'1" to 16'	16'1" to 18'
Connection details	On-center spacing of fasteners^{d, e}						
1/2 inch diameter lag screw with 15/32 inch maximum sheathing ^a	30	23	18	15	13	11	10
1/2 inch diameter bolt with 15/32 inch maximum sheathing	36	36	34	29	24	21	19
1/2 inch diameter bolt with 15/32 inch maximum sheathing and 1/2 inch stacked washers ^{b, h}	36	36	29	24	21	18	16

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm. 1 pound per square foot = 0.0479 kPa.

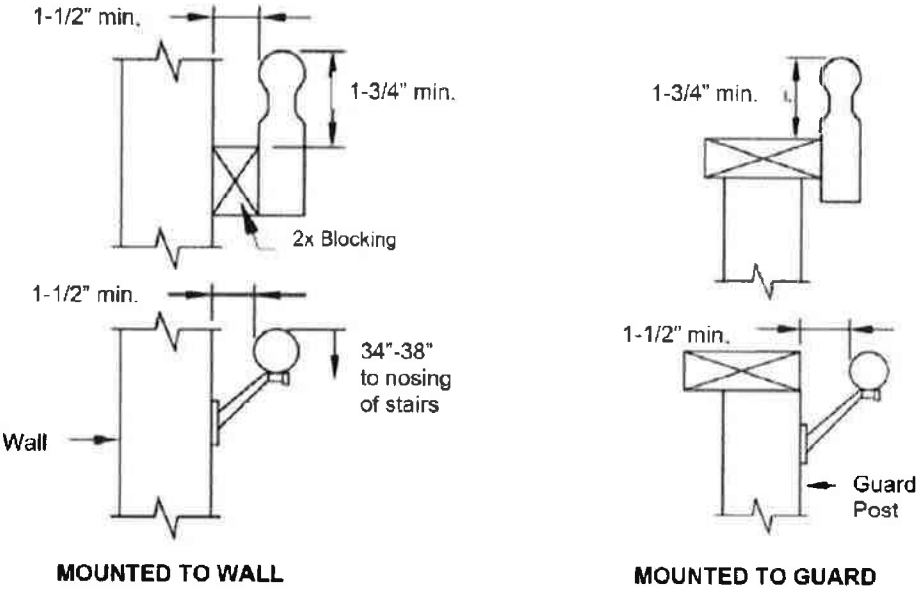
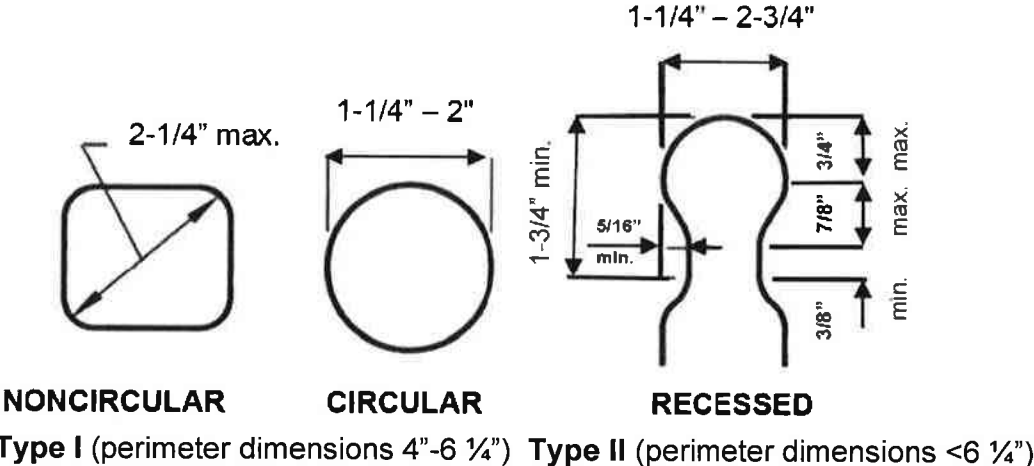
- a. The tip of the lag screw shall fully extend beyond the inside face of the band joist.
- b. The maximum gap between the face of the ledger board and face of the wall sheathing shall be 1/2 inch.
- c. Ledgers shall be flashed to prevent water from contacting the house band joist.
- d. Lag screws and bolts shall be staggered in accordance with Section R507.2.1.
- e. Deck ledger shall be minimum 2 x 8 pressure-preservative-treated No. 2 grade lumber, or other approved materials as established by standard engineering practice.
- f. When solid-sawn pressure-preservative-treated deck ledgers are attached to a minimum 1-inch-thick engineered wood product (structural composite lumber, laminated veneer lumber or wood structural panel band joist), the ledger attachment shall be designed in accordance with accepted engineering practice.
- g. A minimum 1 x 9 1/2 Douglas Fir laminated veneer lumber rimboard shall be permitted in lieu of the 2-inch nominal band joist.
- h. Wood structural panel sheathing, gypsum board sheathing or foam sheathing not exceeding 1 inch in thickness shall be permitted. The maximum distance between the face of the ledger board and the face of the band joist shall be 1 inch

American Forest & Paper Association Inc. has published the "Prescriptive Residential Wood Deck Construction Guide" Based on the 2012 International Residential Code. The construction details in this document are accepted in Pierce County for single level residential wood decks only. You can download the guide from the Internet at the following website. <http://www.awc.org/Publications/DCA/DCA6/DCA6-12.pdf>

STAIR HANDRAIL REQUIREMENTS:

All stairs with 4 or more risers shall have a handrail on at least one side. The handrail height measured vertically from the sloped plane adjoining the nosing shall not be less than 34 inches or more than 38 inches. Handrails shall run continuously from a point directly over the lowest riser to a point directly over the highest riser and shall return to the guard at each end. Handrails may be interrupted by guard posts at a turn in the stair [R311.7.8.2].

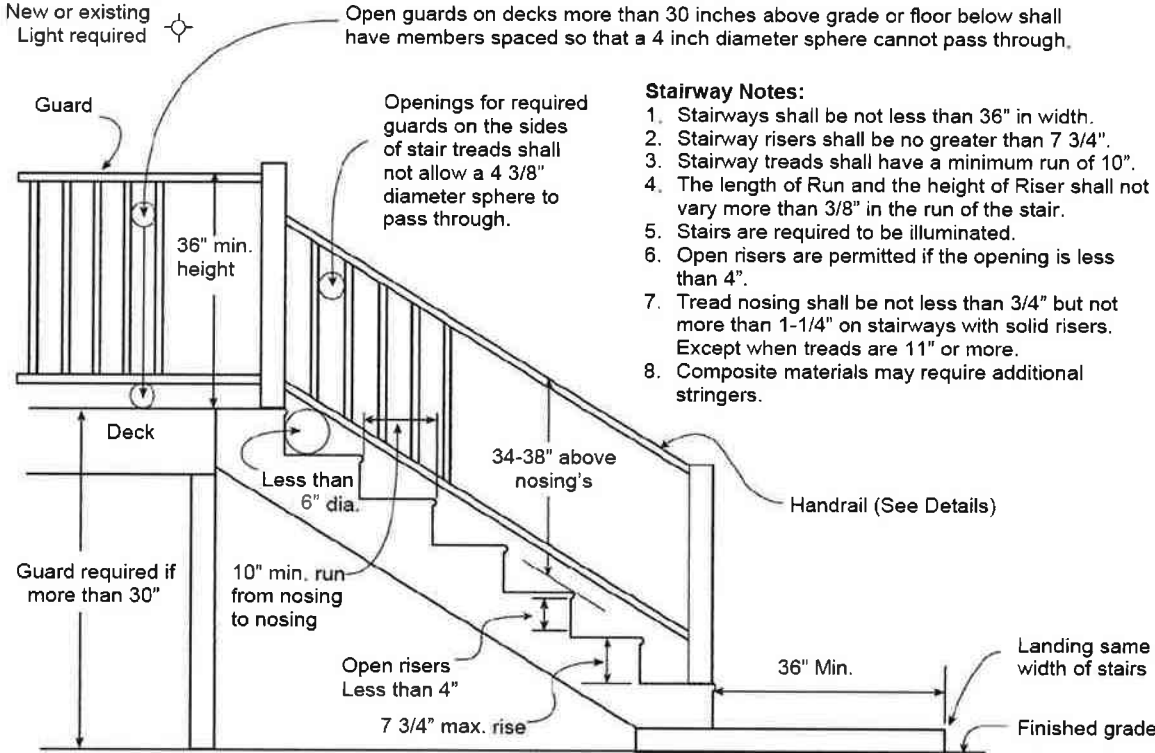
Handrails shall be graspable and shall be composed of decay-resistant and corrosion resistant material handrail shall be Type I, Type II, or provide equivalent graspability.



Basic Deck

The following details are examples of the code requirements based on the 2012 International Residential Code for single story decks.

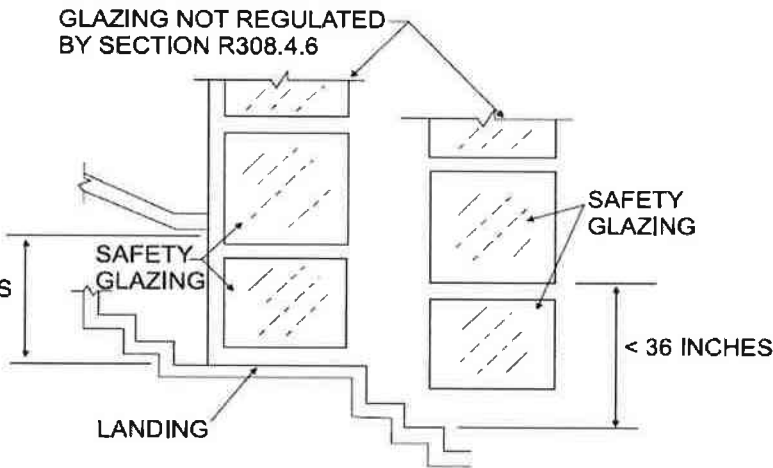
The 2012 International Residential Code Section R507 contains additional information and details specific to deck construction.



- Stairway Notes:**
1. Stairways shall be not less than 36" in width.
 2. Stairway risers shall be no greater than 7 3/4".
 3. Stairway treads shall have a minimum run of 10".
 4. The length of Run and the height of Riser shall not vary more than 3/8" in the run of the stair.
 5. Stairs are required to be illuminated.
 6. Open risers are permitted if the opening is less than 4".
 7. Tread nosing shall be not less than 3/4" but not more than 1-1/4" on stairways with solid risers. Except when treads are 11" or more.
 8. Composite materials may require additional stringers.

SAFETY GLAZING:

Glazing where the bottom exposed edge of the glazing is less than 36 inches above the plane of the adjacent walking surface of stairways, landings between flights of stairs and ramps shall be considered a hazardous location. [IRC R308.4.6]



Glazing adjacent to the landing at the bottom of a stairway where the glazing is less than 36 inches above the landing and within 60 inches horizontally of the bottom tread shall be considered a hazardous location. [IRC R308.4.7]