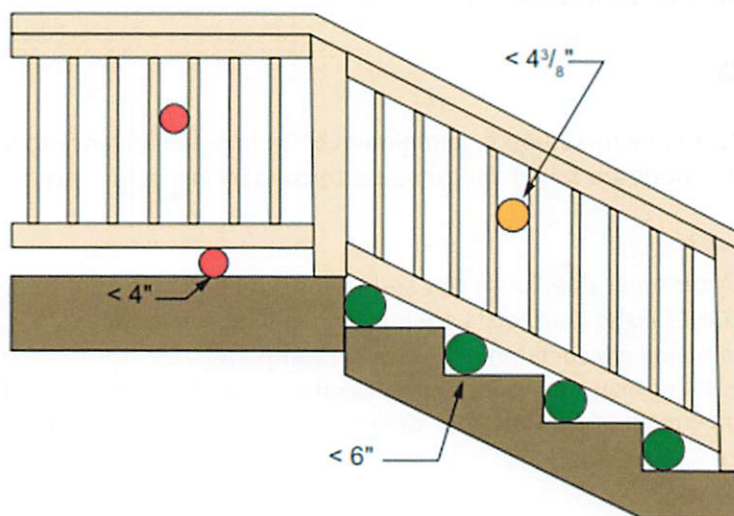
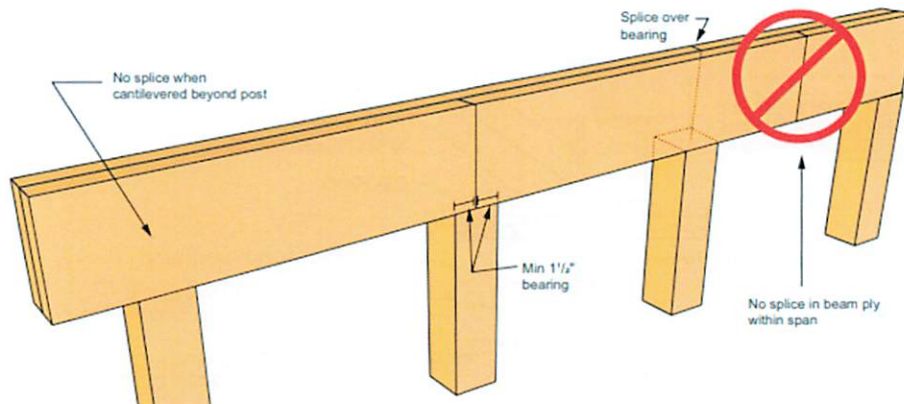


BUILDING CODE REQUIREMENTS 2021 International Residential Code & 2022 CT State Building Code

- The bottom of the footing must be 42" minimum below undisturbed soil. (507.3.3)
- Galvanized connectors are required for footing to post, post to beam and beam to joist connections. (507.4.1, 507.5.2)
- Guards are required on all decks more than 30" above grade. Guards must be 36" minimum in height. Open guards must have intermediate rails or an ornamental pattern that a 4" sphere cannot pass through. Guards must be able to withstand 200lbs of applied pressure. (507.10)
- Stairways must be 36" in width between guards for the full length of the stairway. (311.7.1)
- There shall be a floor or landing at the top and bottom of each stairway. The width perpendicular to the direction of travel shall be not less than the width of the flight served. Where the stairway has a straight run, the depth in the direction of travel shall be not less than 36 inches. (311.7.6)
- Floor elevations for other exterior doors. Doors other than the required egress door shall be provided with landings or floors not more than  $8\frac{1}{4}$  inches (209.5 mm) below the top of the threshold. Exception: A landing is not required where a stairway of three or fewer risers, including the top riser from the dwelling to the top tread, is located on the exterior side of the door, provided the door does not swing over the stairway. (311.3.2)
- The maximum riser height shall be not more than  $8\frac{1}{4}$ ", the minimum tread depth shall be 9". Open risers are permitted provided that the opening between treads does not permit the passage of a 4-inch-diameter sphere. (311.7.5.1, 311.7.5.2)
- Guards on the open sides of stairs shall have a height of not less than 34" measured vertically from a line connecting the nosing's and shall not have openings that allow passage of a sphere  $4\frac{3}{8}$ " in diameter. Triangular openings at the open side of stair, formed by the riser, tread and bottom rail of a guard, shall not allow passage of a sphere 6" in diameter. (312.1.1, 312.1.3)

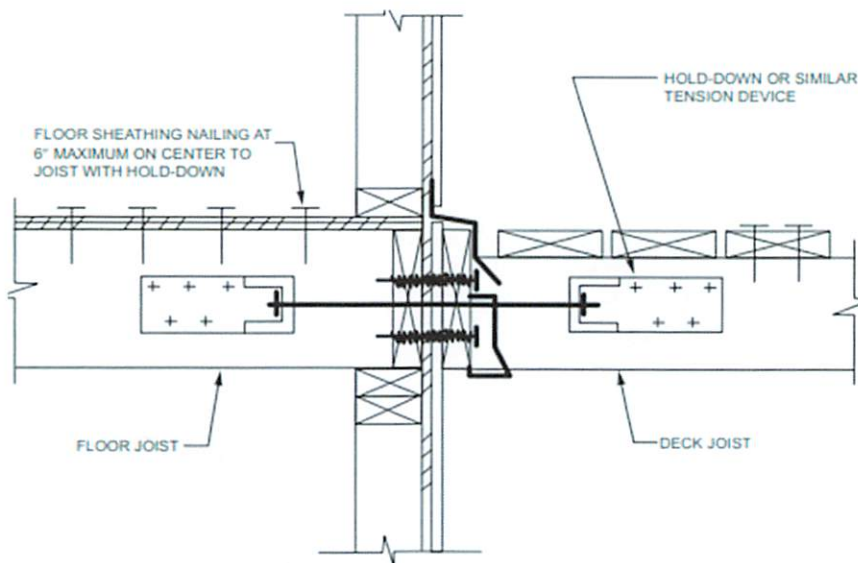


-Beam/Girder splices must be directly over posts, minimum of 1 ½" bearing. (507.5.1)



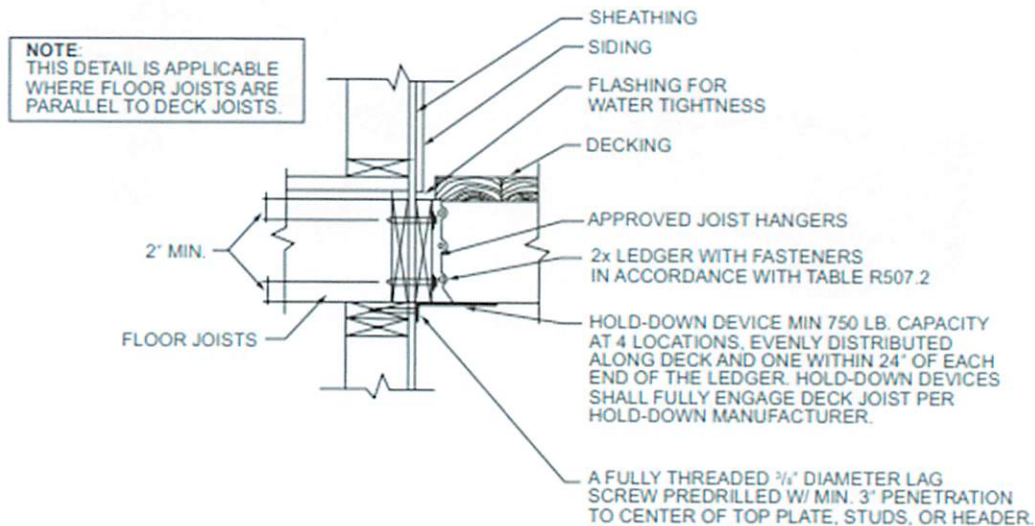
-Lateral Connection-Lateral loads shall be transferred to the ground or to a structure capable of transmitting them to the ground.

Where the lateral load connection is provided in accordance with Figure R507.9.2(1), hold-down tension devices shall be installed in not less than two locations per deck, within 24 inches of each end of the deck. Each device shall have an allowable stress design capacity of not less than 1,500 pounds



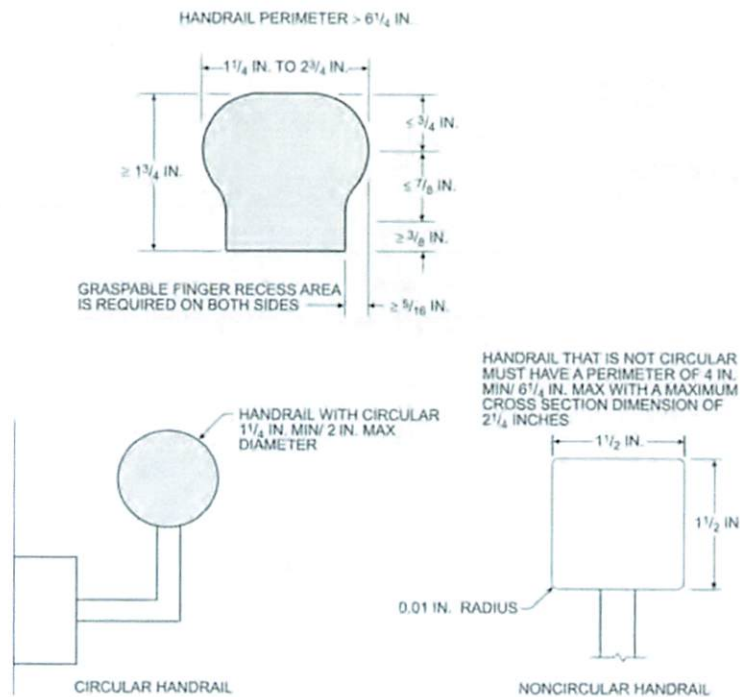
**FIGURE R507.9.2(1)**  
**DECK ATTACHMENT FOR LATERAL LOADS**

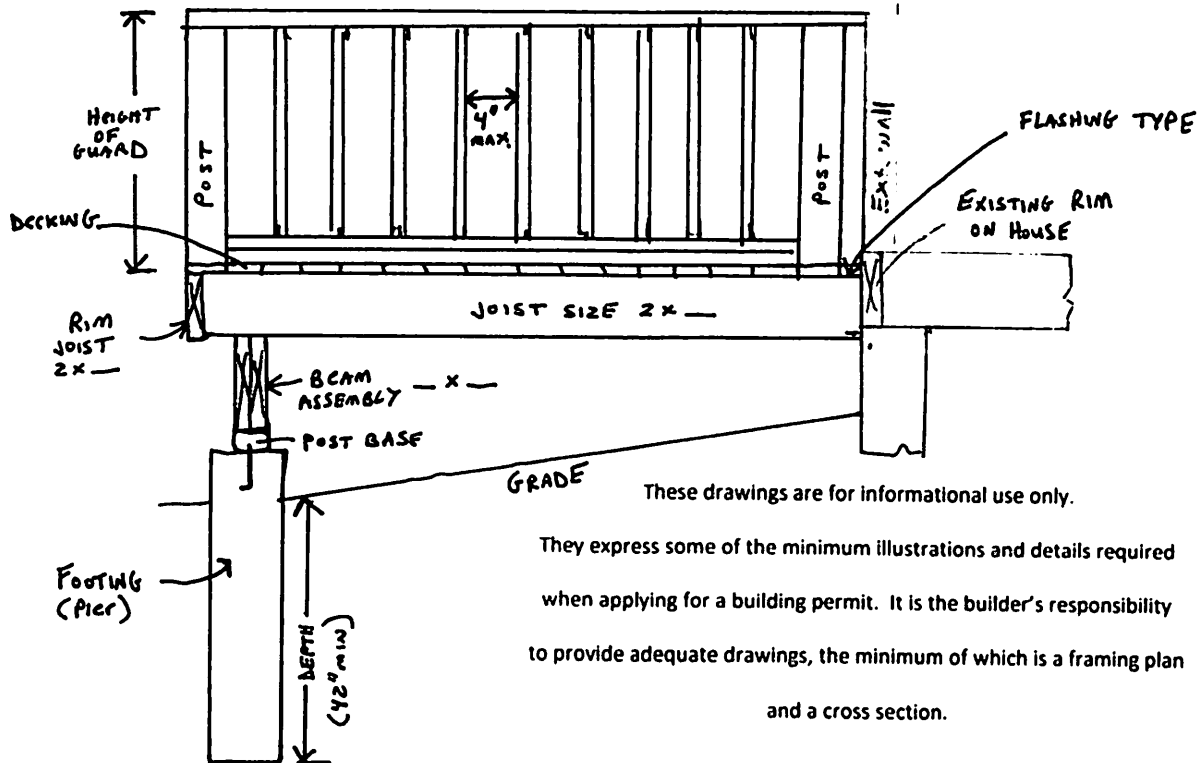
Where the lateral load connections are provided in accordance with Figure R507.9.2(2), the hold-down tension devices shall be installed in not less than four locations per deck, and each device shall have an allowable stress design capacity of not less than 750 pounds (3336 N).



**FIGURE R507.9.2(2)**  
**DECK ATTACHMENT FOR LATERAL LOADS**

- Handrails shall be provided on not less than one side of each flight of stairs with four or more risers. (311.7.8)





## EXAMPLE: PERMIT DRAWING

