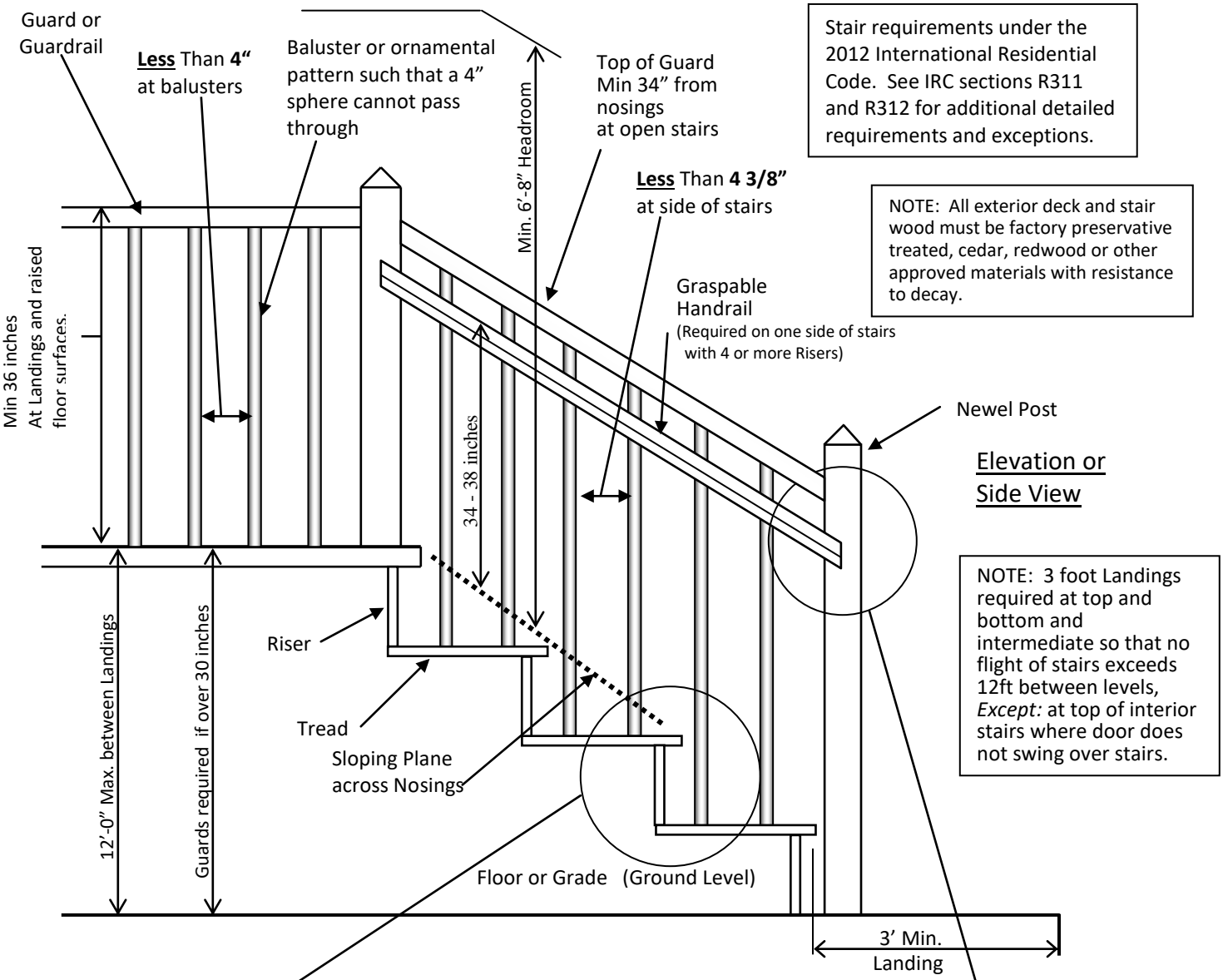


Residential Stairs and Handrails

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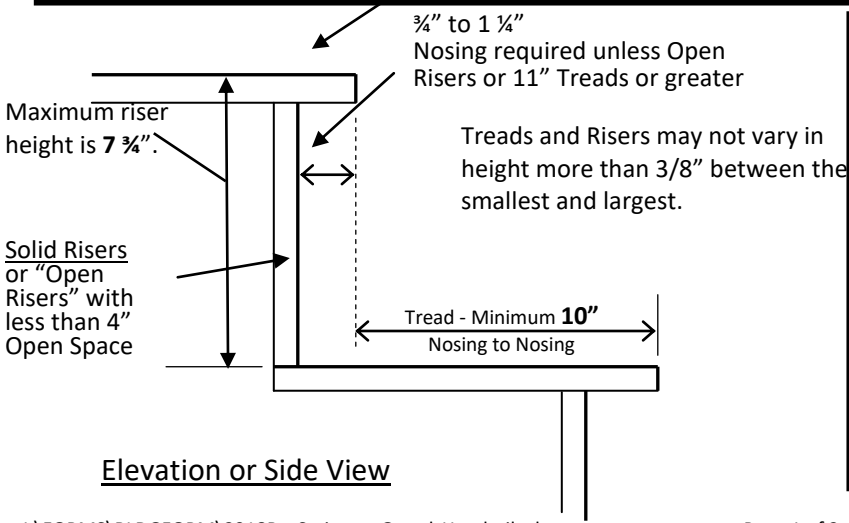


Stair requirements under the 2012 International Residential Code. See IRC sections R311 and R312 for additional detailed requirements and exceptions.

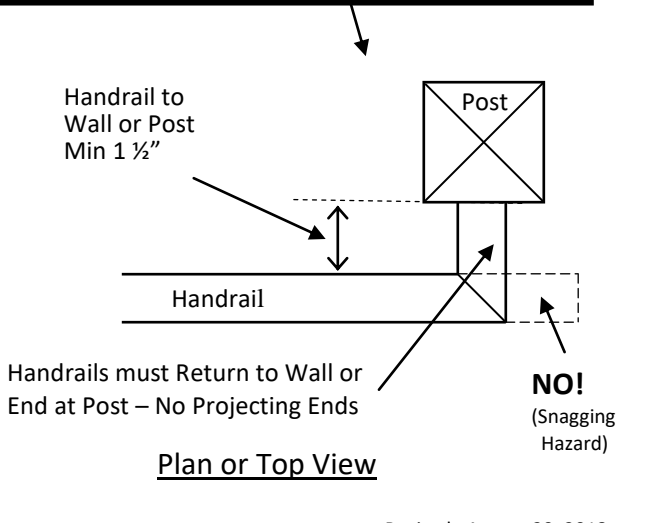
NOTE: All exterior deck and stair wood must be factory preservative treated, cedar, redwood or other approved materials with resistance to decay.

Elevation or Side View

NOTE: 3 foot Landings required at top and bottom and intermediate so that no flight of stairs exceeds 12ft between levels, *Except*: at top of interior stairs where door does not swing over stairs.



Elevation or Side View

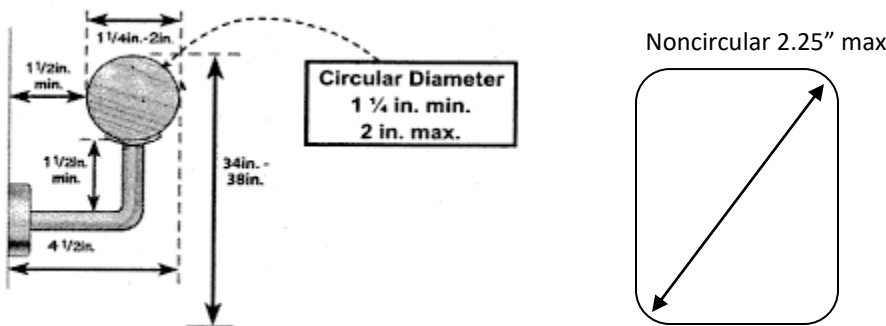


Plan or Top View

IRC "R311.7.8.3 Handrail grip size: All required handrails shall be of one of the following types or provide equivalent graspability.

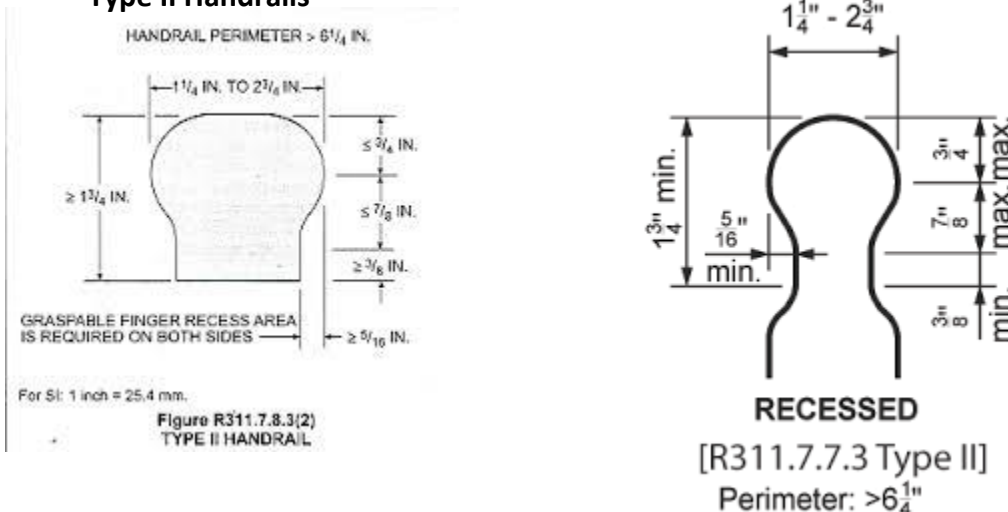
1. Type I. Handrails with a circular cross section shall have an outside diameter of at least 1 1/4 inches (32mm) and not greater than 2 inches (51 mm). If the handrail is not circular it shall have a perimeter dimension of at least 4 inches (102 mm) and not greater than 6 1/4 inches (160 mm) with a maximum cross section of dimension of 2 1/4 inches (57 mm).

Type I Handrails



2. Type II. Handrails with a perimeter greater than 6 1/4 inches (160 mm) shall provide a graspable finger recess area on both sides of the profile. The finger recess shall begin within a distance of 3/4 inch (19 mm) measured vertically from the tallest portion of the profile and achieves a depth of at least 5/16 inch (8 mm) within 7/8 inch (22 mm) below the widest portion of the profile. This required depth shall continue for at least 3/8 inch (10 mm) to a level that is not less than 1 3/4 inches (45 mm) below the tallest portion of the profile. The minimum width of the handrail above the recess shall be 1 1/4 inches (32 mm) to a maximum of 2 3/4 inches (70mm). Edges shall have a minimum radius of 0.01 inches (0.25 mm).” [ADA requires minimum 1 1/4” and maximum 1 1/2” dimensions on handrails.]

Type II Handrails



Additional Handrail Code Information

"R311.8.3.1 Height. Handrail height, measured vertically from the sloped plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm)."

"R311.8.3.3 Continuity. Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails adjacent to a wall shall have a space of not less than 1 1/2 inch (38 mm) between the wall and the handrails."