



# PRIVATE STAIRS

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## PRIVATE STAIR DIMENSIONS N.T.S. Stairs serving Single Family Residences or individual units in a Multi-family Building.

### MAX. VERTICAL RISE

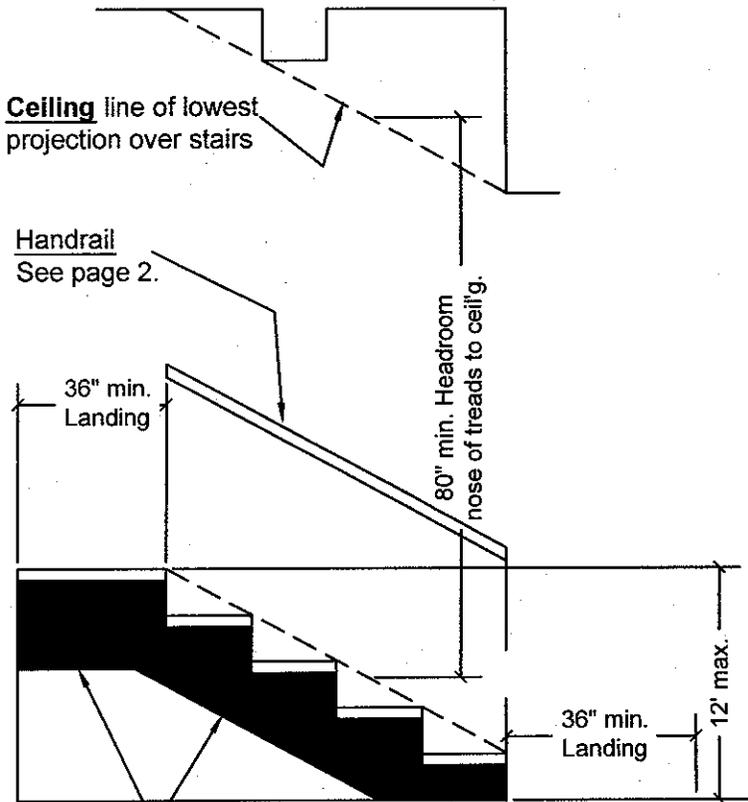
between floors or landings is 12 feet. *CBC 1009.6*

A **FLOOR** or **LANDING** is required at the top and bottom of each stairway. *CBC 1012.5*

**except:** A Landing is not required at the top of an interior flight of stairs provided a door does not swing out over the stairs. *CBC 1009.4*

### STAIR WIDTH *CBC 1009.1*

Stairs serving an occupant load of 50 or greater shall have a minimum width of 44". Where the occupant load served is less than 50, the minimum width shall be 36".



**Ceiling** line of lowest projection over stairs

**Handrail**  
See page 2.

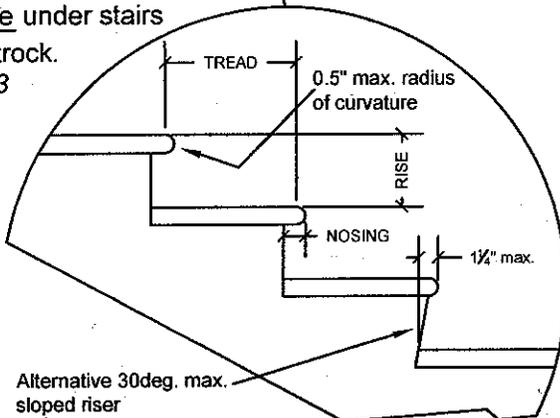
36" min. Landing

80" min. Headroom nose of treads to ceiling.

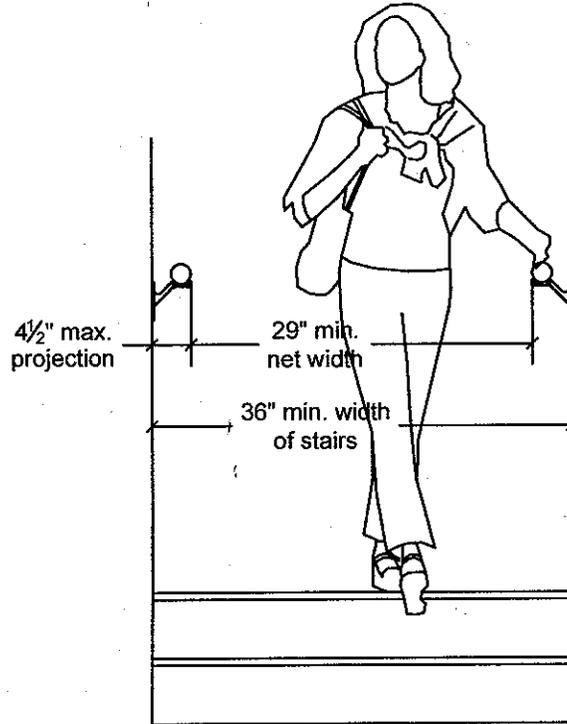
12" max.

36" min. Landing

cover walls and soffits of useable space under stairs with 1/2" sheetrock. *CBC 1009.5.3*  
*Exception*



Alternative 30deg. max. sloped riser



### RISE AND RUN *CBC 1009.3*

Riser Height: 4" min. and 7 3/4" max.

Tread Depth: 10" min. but a nosing, not less than 3/4" and not more than 1 1/4" shall be provided on stairs where the tread depth is less than 11".

Risers shall be solid and vertical or sloped. Sloped risers must start from the underside of the leading edge at a max. angle of 30deg. from the vertical.

Solid Risers are not required for stairs that are not an element of the means of egress and the opening between the stairs won't pass a 4" sphere.

The height of risers and width of treads in a flight of stairs shall have the same dimensions with a max. allowable variation of 3/8". *CBC 1009.3.2*

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## PRIVATE STAIR DETAILS N.T.S.

Stairs serving Single Family Residences or individual units in a Multi-family Building.

**A HANDRAIL IS REQUIRED** on at least one side of a flight of stairs, or continuous run of treads that have 4 or more risers. *CBC 1009.10 exc.4.*

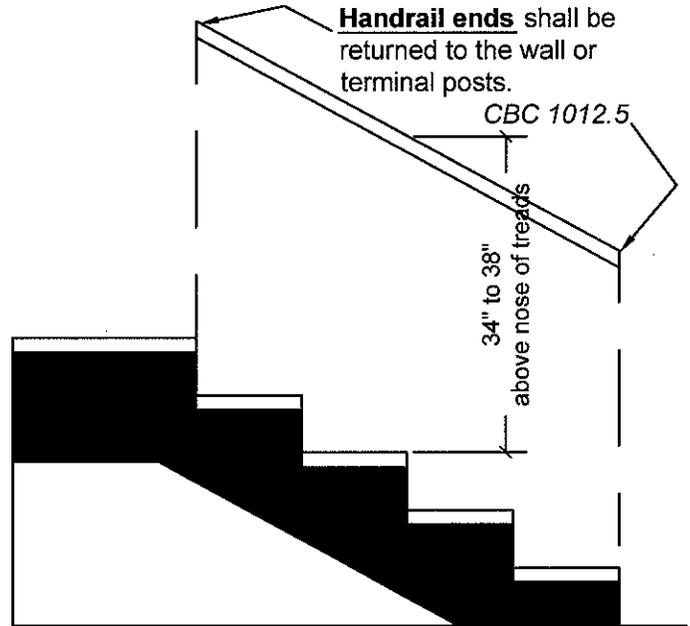
Stairways within dwelling units and Spiral Stairs need only to have a handrail on one side. *CBC 1009.10 exc.2.*

Decks, patios and walkways that have a single change in elevation where the landing depth on each side of the change in elevation is greater than what is required for a landing do not require handrails. *CBC 1009.10 exc.3.*

**HANDRAILS** shall have a continuous surface, uninterrupted by newell posts or other obstructions. *CBC 1012.4*

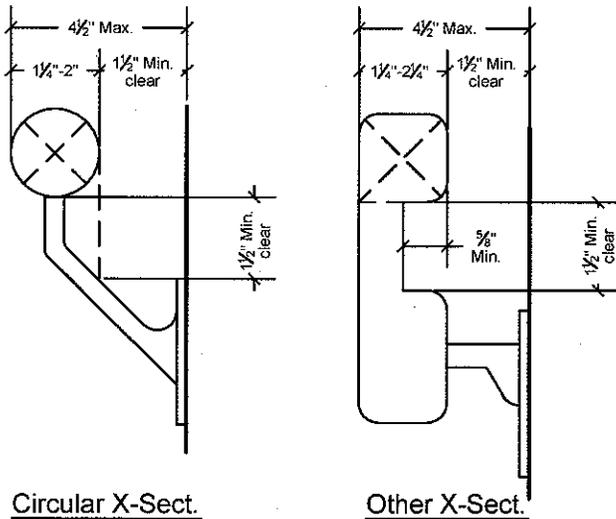
**exception:** interruptions will be allowed at newell posts on landings, or at the bottom terminal post.

**HANDRAIL HEIGHT** shall be between 34" and 38", measured above the tread nosings to the top of the rail and shall be uniform.



**Handrail ends** shall be returned to the wall or terminal posts. *CBC 1012.5*

### HANDRAIL GRASPABILITY



Circular X-Sect.

Other X-Sect.

Handrails with a circular cross-section shall have an outside diameter of at least  $1\frac{1}{4}$ " and not greater than 2", or shall provide equivalent graspability.

If the handrail does not have a circular cross-section, it shall have a perimeter dimension of at least 4" and not greater than 6.25 inches, with a maximum cross-section dimension of 2.25". Edges shall have a minimum radius of 0.01". *CBC 1012.3*

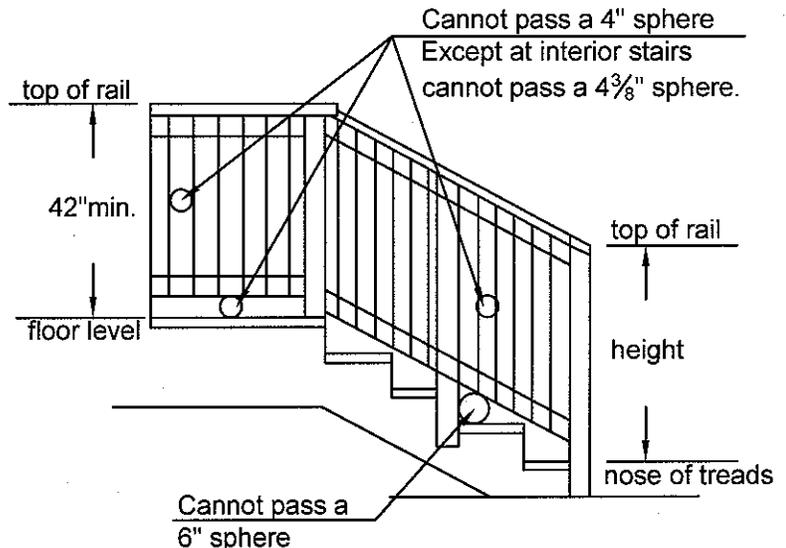


**Standard mushroom shape rails** provide an equivalent gripping surface, and are acceptable in Redding.

### GUARDRAILS AT STAIRS *CBC Sect. 1013*

**42" high Guardrails are required** on open sides of stairs

**exception:** If the top rail of the guard also serves as the handrail, it can be 34" to 38" high.



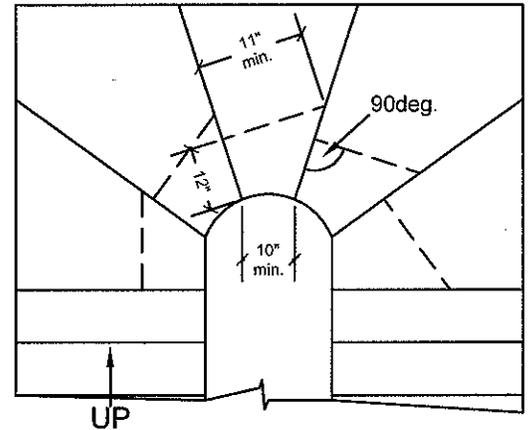
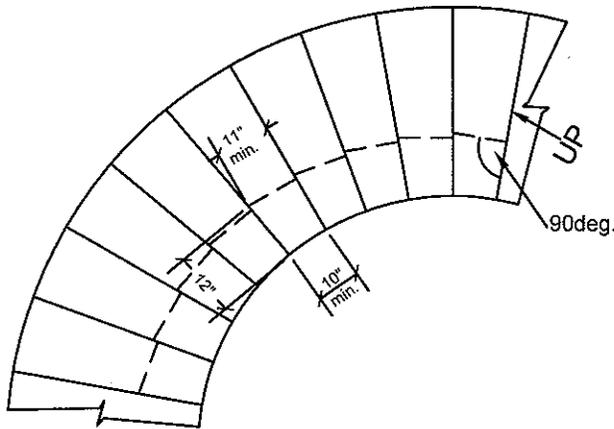
Cannot pass a 4" sphere  
Except at interior stairs  
cannot pass a  $4\frac{3}{8}$ " sphere.

Cannot pass a 6" sphere

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## PRIVATE STAIR DETAILS N.T.S.

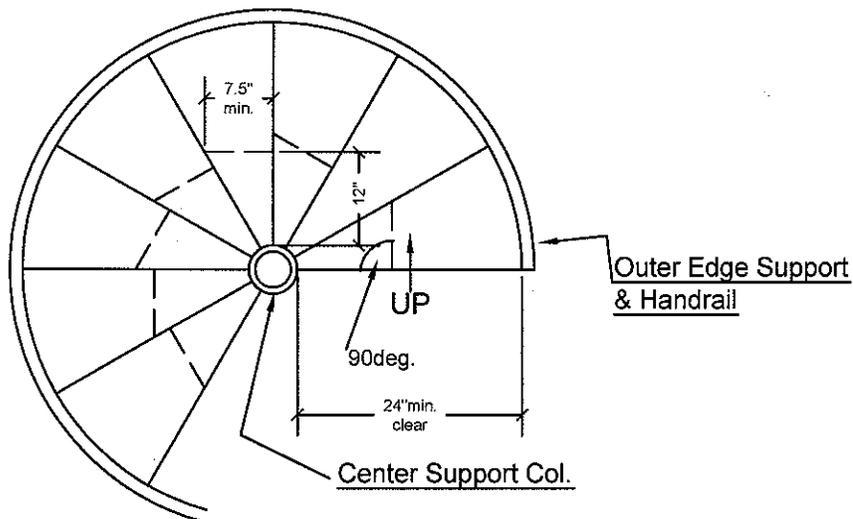
Stairs serving Single Family Residences or individual units in a Multi-family Building.



### **CURVED STAIRS and WINDER STAIRS**

Shall have winder treads in accordance with *CBC 1009.3*

*Winder treads shall have a minimum tread depth of 11" measured at a right angle to the tread's leading edge at a point 12" from the side where treads are narrower, and shall have a minimum 10" tread depth at the narrowest point.*



### **SPIRAL STAIRWAYS** (*CBC 1009.8*)

are permitted to be used as a component in the means of egress only within dwelling units or when or from a space not more than 250 sq. ft. in area, and not serving more than 5 occupants, or from stages per *CBC 1015.6.1*.

The minimum tread depth shall be 7½", measured at a point 12" from the narrow edge. The risers shall be sufficient to provide a minimum headroom of 78", but riser height shall not be more than 9½". The minimum stairway width shall be 24", measured from the outside of the center support to the inside of the handrail.