For Spiral Stair

PRICING SPIRAL STAIRS TECHNICAL HELP ABC

RESURGAM CITY OF PORTLAND, MAINE

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

BUILDING CODE SPECIFICATIONS

Date: 07/21/14

Printable Version of the Code Specifications (PDF)

Salter's Code Stair Packages will address and meet compliancy with each of the requirements that are listed below. This information will) the **BOCA Code**, **UBC Code**, **IRC Code**, and **IFC codes**.

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Visual Interpretation of IRC Code

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- Minimum clear walking path of 26 inches. A 5-foot diameter or larger stair will provide this width.
- Each tread will have a minimum of 7 1/2 inch tread depth at 12 inches from the narrow edge.
- All treads will be identical.
- The tread rise shall not be more than 9 1/2 inches high.
- Minimum headroom of 6 foot 6 inches shall be provided, measuring plumb from the edge of the platform down to the tread below.
- Landing width shall not be less than the required width of the stairway. Minimum spiral stair tread width is 26 inches. (Salter's code platforms start at 31 inches wide.)
- Stair balusters shall be spaced so a 4-inch object cannot pass between. The IRC Code permits a 4 3/8 inch space.
- Balcony/Well Enclosure guardrail balusters shall be spaced so a 4-inch object cannot pass
- Balcony/Well Enclosure guardrail height shall not be less than 36 inches. (If your state or municipality requires 42-inch tall guardrails, the sales order must reflect this detail.)
- The stairway shall be equipped with one handrail on the wide edge of the tread.
- Handrail height, measured vertically from the tread nosing, shall be not less than 34 inches and not more than 38 inches.
- Handrail grip size.

Type I-Handrails with a circular cross section shall have an outside diameter of at least 1 1/4 inches and not greater than 2 inches. (Salter's standard circular handrail is 1 1/2 inch diameter. This will address the UBC minimum cross section of 1 1/2 inch diameter.) If the handrail is not circular, it shall have a perimeter dimension not greater than 6 1/4 inches.
Type II-Handrails, with a perimeter greater than 6 1/4 inches, shall provide a graspable finger recess area on both sides of the profile. For further information on our Type II options, please contact our sales department.
(*Verify what handrail size and shape your inspector will require. Handrail size and shape are a very controversial area within the building code. We recommend that you use our standard 1 1/2" round handrails or our 1 3/4" x 2" B&FG solid wood handrail to comply with the proper circumference.*)

- A 300 lb. concentrated load is required. On request, our sales

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IRC Stair Building Code
R311.5.8.1 Spiral Stairs. Spiral stairways are permitted, provided the minimum width shall be 26 inches (660 mm) with each tread having a 7 1/2 inch (190 mm) minimum tread depth at 12 inches from the narrower edge. All treads shall be identical, and the rise shall be no more than 9 1/2 inches (241