

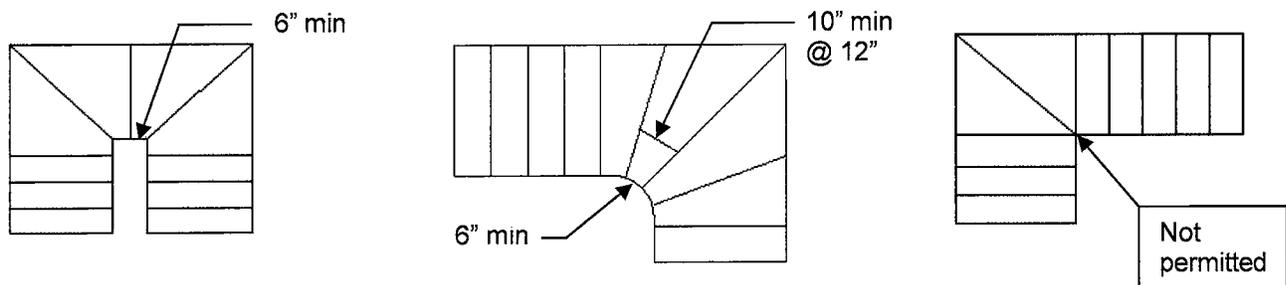


## WINDER TREADS

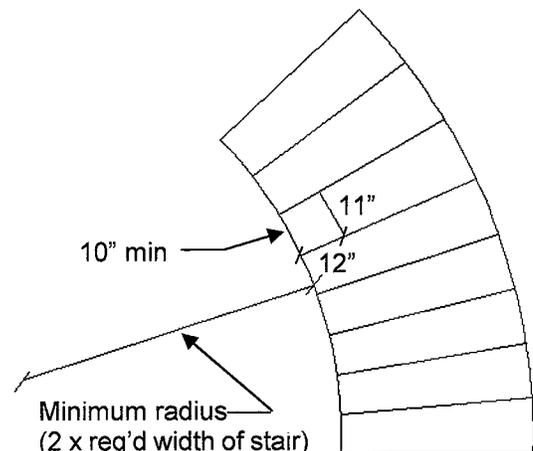
Winder treads are not permitted in means of egress stairways except within a dwelling unit. Exceptions to this include curved stairways and spiral stairways designed in accordance with Sections 1009.7 and 1009.8, respectively

The following details apply to winder treads in Group R-3 occupancies, within dwelling units in Group R-2 occupancies, and in Group U occupancies that are accessory to Group R-3 occupancy or accessory to individual dwelling units in Group R-2 occupancies. The plans must show minimum dimensions for winder treads used in stairways. Plan or section views must indicate the following:

- The maximum riser height shall be 7 7/8 inches.
- Treads must have a minimum width of 6 inches and the required 10 inch width within 12 inches of the narrower end.
- A nosing not less than 0 7/8 inch but not more than 1.25 inches shall be provided on stairways with solid risers where the tread depth is less than 11 inches.
- Stairway width shall not be less than 36 inches.



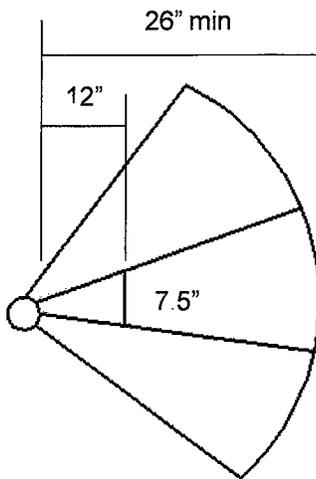
Curved stairways with winder treads must meet the minimum and maximum tread and riser requirements per Section 1009.3. Specifically, a minimum 11 inch tread depth, measured at a right angle to the tread's leading edge at a point 12 inches in from the side where the treads are narrower, is required, a minimum tread depth of 10 inches is required, and riser heights shall be 4 inches minimum and 7 inches maximum. Also, the smallest radius of the stair shall not be less than twice the required width of the stairway (radius requirements need not be met within Group R-3 occupancy or an individual dwelling unit within Group R-2 occupancy)



Spiral stairways may be used as a means of egress element only in the following applications

- Within dwelling units.
- In Group I-3 occupancies for access to and between staff locations (Section 408.3.3)
- In all other occupancies from a space not more than 250 square feet in area and serving five (5) or less occupants.
- From galleries, catwalks, and gridirons (see Section 410) in accordance with Section 1015.6

Spiral stairways must have a 7.5 inch minimum clear tread depth at a point 12 inches from the narrow edge. Riser heights are required to be the same and are not to exceed 9.5 inches. Minimum headroom of 6 foot 6 inches is required. The minimum stairway width shall be 26 inches.



WRITTEN BY:

CIARA BARNETT  
Civil Engineer

REVIEWED BY:

JUAN MADRIGAL  
Senior Civil Engineer

RECOMMENDED BY:

HASSAN ALAMEDDINE  
Chief Engineer

APPROVED BY:

RAJ PATEL  
Superintendent of Building