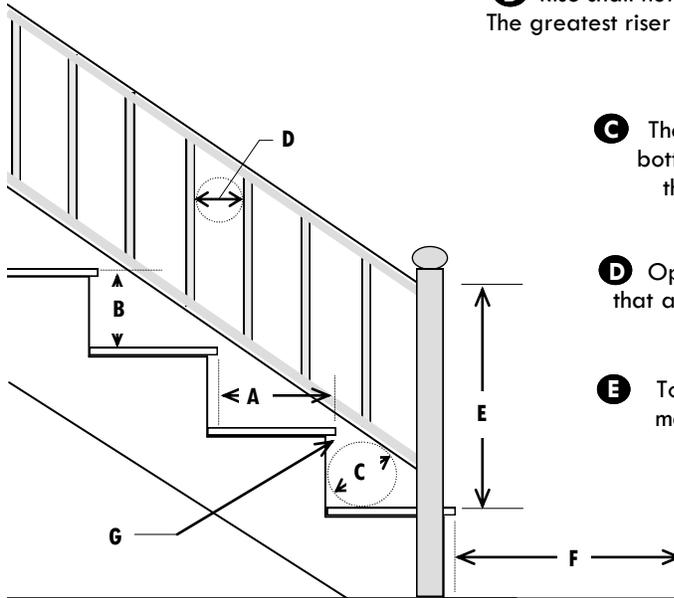




# RESIDENTIAL STAIRS

- A** Run is measured horizontally between the vertical planes of the foremost projection of adjacent tread or nosing. Minimum 10 inches. R311.7.5.2

- B** Rise shall not be less than 4 inches or greater than 7.75 inches. The greatest riser height shall not exceed the smallest by more than .375 inch. R311.7.5.1



- C** The triangular opening formed by the riser, tread & bottom element of the guard rail may be of such size that a 6 inch diameter sphere cannot pass through. R312.1.3 Exc #1

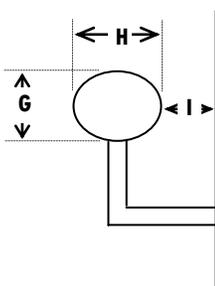
- D** Openings between rails or ornamental patterns such that a 4.375 inch diameter sphere cannot pass through. R312.1.3 EXC # 2

- E** Top of handrails shall not be less than 34 inches or more than 38 inches above landings and the nosing of treads. R311.7.8.1 & R312.1.2 Exc #2

- F** There shall be a floor or landing at the top & bottom of each stairway or stair run with a dimension measured in the direction of travel not less than the width of the stairway. R311.7.6

- G** The nosing of treads shall extend no less than .75 and no more than 1.25 inches beyond the tread below and the greatest nosing shall not exceed the smallest by more than 3/8 (.375) inch R311.7.5.3

## HANDRAILS



Stairways within dwelling units are permitted to have a hand rail on one side only. R311.7.8  
However, guards are still required on open-sided walking surfaces more than 30 inches above floor grade. R312.1.1

If the handrail is not circular, it shall have a perimeter dimension of at least 4in. and not greater than 6.25in. with a maximum cross-section dimension of 2.25 inches. R311.7.8.3 #1

A continuous run of treads or flight of stairs with fewer than four risers does not require handrails. R311.7.8

- G** If not round, edges shall have a minimum radius of 0.01 inch. R311.7.8.3 #1

- H** Not less than 1 1/4 inches nor more than 2 inches in cross section. R311.7.8.3 #1

- I** Minimum 1 1/2 inches clearance from wall to handrail. R311.8.3.3