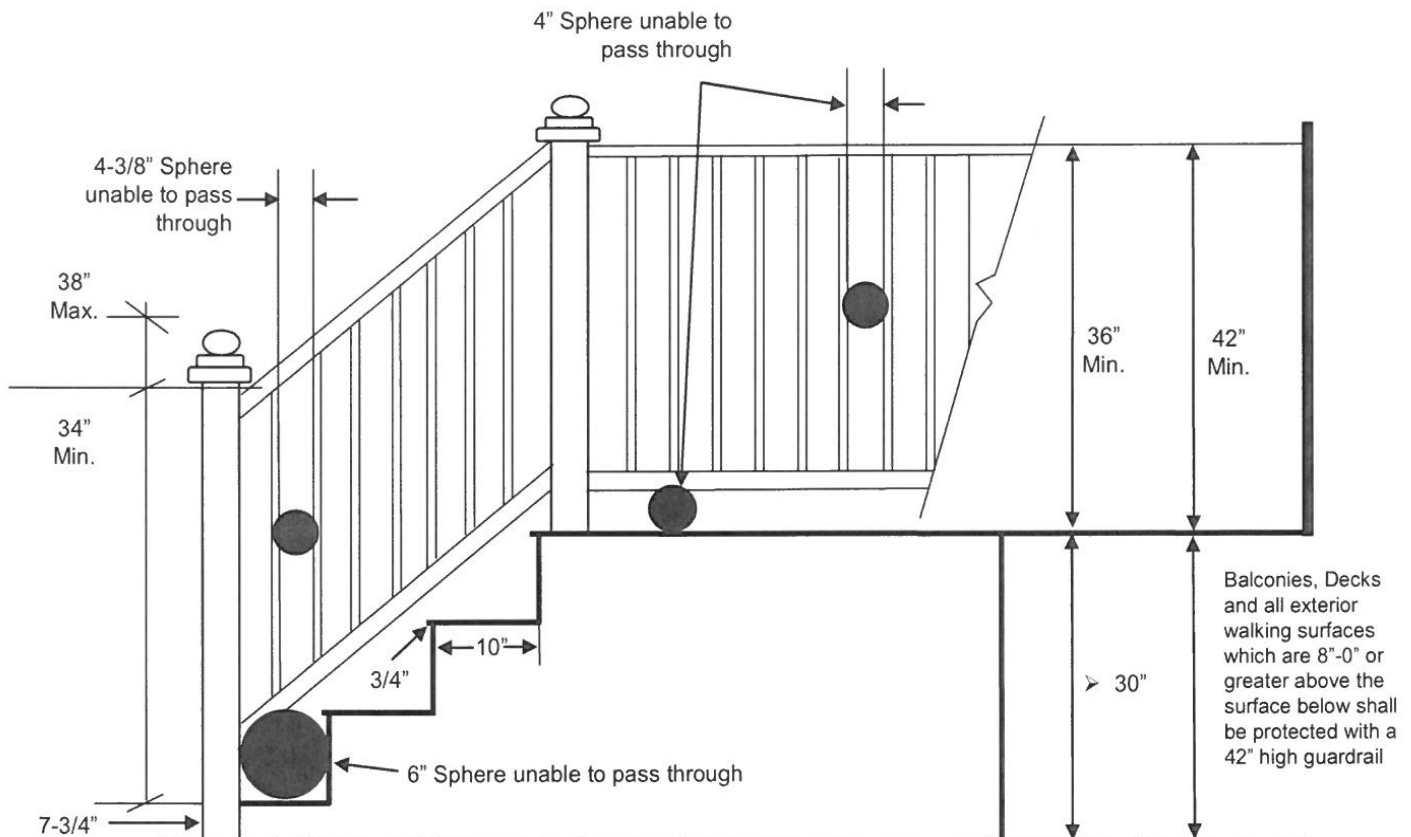


Residential Guardrails

- Guardrails shall be installed on all open sides of stairways, porches, balconies, or raised floor surfaces more than 30 inches above floor or grade below.
- Minimum height of the guardrail shall be 36 inches.
- Handrails that form a guard at the open side of a stair shall be 34-38" in height, measured from the nosing.
- Balusters or ornamental closures must be of a design, which will not allow a 4" sphere to pass through.
- Balusters or ornamental closures on stairs must be of a design, which will not allow a 4-3/8" sphere to pass through.
- Horizontal rails or other patterns with a ladder effect are not recommended.
- Stairs: 7-3/4" Rise (Max), 10" Run (Min), 3/4" Nosing (Min – 1 1/4" Max); stairs without nosing require 11" treads.



Handrails

- A handrail is required on at least one side of each stairway with four or more risers (34 min. to 30 max.)
- Shall be continuous for the full length of the stairway.
- Ends shall be returned or terminated in newel posts or safety terminals.
- Minimum clearance of 1-1/2" between wall and handrail is required.
- Circular cross section with diameter of 1-1/4" to 2" for handrail is required.
- Noncircular cross section with perimeter between 4" and 6-1/4" and maximum cross section of 2-1/4" is permitted.
- Edges of handrails should have a minimum radius of 1/8".