

EXAMPLE OF A TYPICAL STAIR DETAIL

This is not intended to indicate complete code compliance but is intended to provide information about a flight of stairs, handrail and guard requirements, etc.

For complete code information consult the NJ 2006 IRC, sections R311.5.3 and R312.

Minimum Uniformly Distributed Live Loads

Guardrails and handrails ^d	200 lbs.
Guardrails in-fill components	50 lbs. per square foot
^d A single concentrated load applied in any direction at any point along the top.	

Stairs

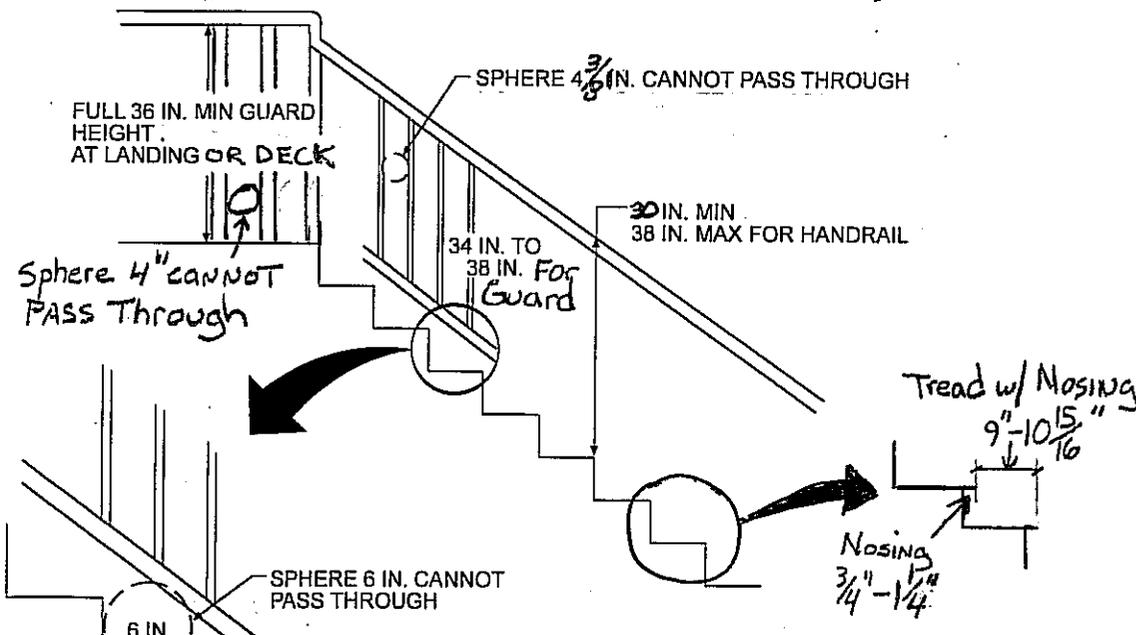
- a. Risers and treads are to be uniform - the variation between risers shall be a maximum of 3/8" from the smallest to the largest.
- b. Minimum 3 feet in clear width.
- c. Landings at stairs are required at the top and bottom and must be a minimum of 3 ft. by 3 ft.
- d. Riser height maximum of 8 1/4".
- e. Tread depth minimum of 9" measured from nosing to nosing, - minimum nosing projection of 3/4", maximum nosing of 1 1/4" if tread less than 11"
- f. Solid risers required except open risers allowed as long as a 4" sphere will not pass between the treads.

Handrails

- a. Required on at least one (1) side of all continuous run of treads or flight with 4 or more risers.
- b. Minimum of 30" and maximum ~~of~~ 38" high measured vertically from top of nosing of tread.
- c. Equivalent graspability of all handrails is required. There are 2 types of handrails, (See NJ 2006 IRC, section R311.5.6.3 for complete graspability requirements)
- d. If mounted on a wall or a guardrail, minimum space between the wall or guard and the handrail is 1 1/2".
- e. Ends of the handrails shall be returned to a post or wall or terminate into a post or safety terminal.

Guards

- a. Required when a landing or deck is over 30" above grade.
- b. Must have less than 4" spacing between balusters @ landings or decks (so that a 4" sphere will not pass between the balusters).
- c. Required on an open side of stairs over 30" above grade.
- d. Must have less than 4 3/8" spacing between balusters @ stairs (so that a 4 3/8" sphere will not pass between the balusters - except at the tread to riser connection in which case sized so that a 6" sphere will not pass through this riser and tread connection opening).
- e. Minimum height of 36" for landings and decks, 34" when installed on stairs - both measured vertically from the nosing of the tread or the walking surface of the landing/deck.



NOT TO
SCALE

FOR
REFERENCE
ONLY