



## STAIRWAY ELEVATION

### Note:

1. Min. clear width shall be 44". For occupant load less than 50, min. 36" width. IBC Section 1011.2.
2. Headroom. Stairways shall have a minimum headroom clearance of 80" measured vertically from a line connecting the edge of the nosings. See IBC 1011.3.
3. Stair riser heights shall be 7" max and 4" min. Stair tread depths shall be 11" min. The riser height shall be measured vertically between the leading edges of adjacent treads. The tread depths shall be measured horizontally between the vertical planes of the foremost projection of the adjacent treads and at a right angle to the tread's leading edge. See IBC 1011.5.2.
4. Stair treads and risers shall be of uniform size and shape. The tolerance between the largest and smallest riser height or between the largest and smallest tread depth shall not exceed 3/8" in any flight of stairs. See IBC 1011.5.4.
5. Stairs shall have handrails on each side. IBC Section 1011.11. Handrails shall be adequate in strength and attachment in accordance with IBC Section 1607.8. Handrail height shall not be less than 34" and not more than 38" measured above tread nosing. See 1014.6. Handrails shall extend horizontally at least 12" beyond the top riser and continue to slope for the depth of one tread beyond the bottom riser. See 1014.3 for handrail graspability.
6. Guards required at stairways and landing located more than 30" above floor or grade. See IBC Section 1015.2.
7. Guards shall form a protective barrier not less than 42" high measured vertically above the leading edge of the tread, or adjacent walking surface. See IBC 1015.3.
8. Required guards shall not have openings which allow passage of a sphere 4" in diameter from the walking surface to the required guard height. IBC 1015.4. Exception #1-From a height of 36" to 42", guards shall not have openings which allow passage of a sphere 4-3/8" in diameter. Triangular openings at the open sides of a stair, formed by the riser, tread and bottom rail shall not allow passage of a sphere 6" in diameter. IBC 1015.4 Exception #2.