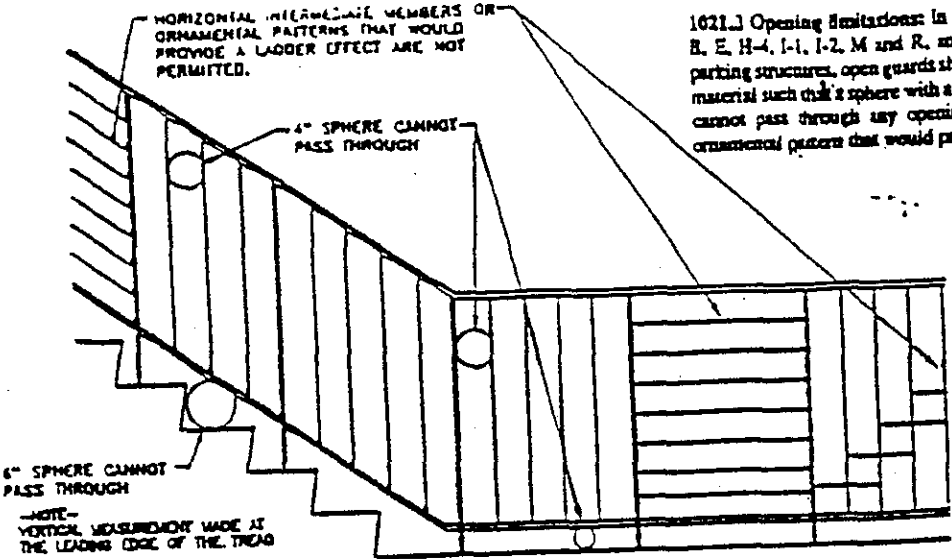


# CODE REQUIREMENTS FOR STAIRS, HANDRAILS & GUARDS

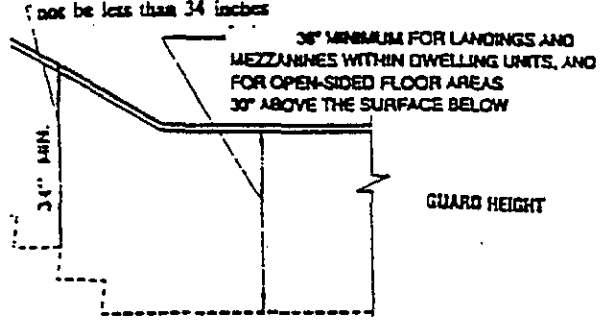


1021.1 Opening limitations: In occupancies in Use Groups A, B, E, H-4, I-1, I-2, M and R, and in public garages and open parking structures, open guards shall have balusters or be of solid material such that a sphere with a diameter of 4 inches (102 mm) cannot pass through any opening. Guards shall not have an ornamental pattern that would provide a ladder effect.

Guards shall be located along open-sided walking surfaces, mezzanines and landings which are located more than 30 inches (762 mm) above the floor or grade below.

Guards along open-sided floor areas, mezzanines and landings within a single dwelling unit in Use Group R-2 and serving a single dwelling unit in Use Group R-1 shall not be less than 36 inches (914 mm) in height.

guards shall not be less than 34 inches (864 mm) in height above the leading edge of the tread along stairs which are not more than 20 feet (6096 mm) in height or which reverse direction at an intermediate landing with 12 inches (305 mm) or less measured horizontally between successive flights."

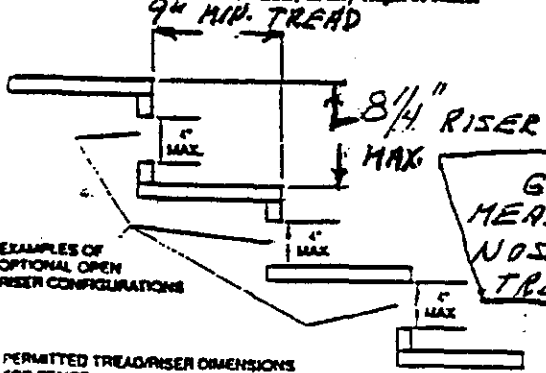


## STAIRWAYS

Stairways serving a single residential dwelling unit shall not be less than 36 inches (914 mm) in width.

In occupancies in Use Group R-3 and within dwelling units in occupancies in Use Group R-2, the maximum riser height shall be 8 1/4 inches (210 mm) and the minimum tread depth shall be 9 inches (229 mm). A nosing of not less than 3/8 inches (19 mm) but not more than 1 1/8 inches (32 mm) shall be provided on stairways with a solid riser where the tread depth is less than 11 inches (279 mm)."

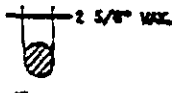
1014.6.2 Dimensional uniformity: There shall not be variation exceeding 1/16 inch (3 mm) in the depth of adjacent treads or in the height of adjacent risers. The tolerance between the largest and smallest riser or between the largest and smallest tread shall not exceed 3/16 inch (10 mm) in any flight of stairs.



PERMITTED TREAD/RISER DIMENSIONS FOR STAIRS IN OCCUPANCIES OF USE GROUP R-3 WITH OPEN RISERS (SECTION 1014.6.1, EXCEPTION #1)

## HANDRAILS

Handrails within individual dwelling units shall not be less than 30 inches (762 mm) nor more than 38 inches (965 mm), measured vertically, above the leading edge of the treads or above the finished floor.



"Handrail grip size: For all stair handrails located within a dwelling unit, the maximum horizontal cross-sectional dimension of the handrails shall not exceed 2 1/2 inches (67 mm)."

"1. Handrails that form part of a guard shall have a height not less than 34 inches (864 mm) and not more than 42 inches (1067 mm)."

The clear space between the handrail and the adjacent wall or surface shall not be less than 1 1/2 inches (38 mm). Edges shall have a minimum radius of 1/8 inch (3 mm)."

