

STAIR CONSTRUCTION GUARD CONSTRUCTION

Stairs and guards are important components in the means of egress and proper design and construction will aid in occupants arriving at exits safely. The information contained in this sheet is a pictorial presentation to assist with the proper design of new and the reconstruction of existing components.

RISER and TREAD

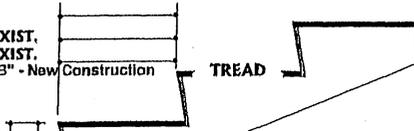
fig # 1

Minimum Tread Depths

- 11" NEW
- 10" "A" EXIST.
- 9" "B" EXIST.
- 10" "Class B" - New Construction

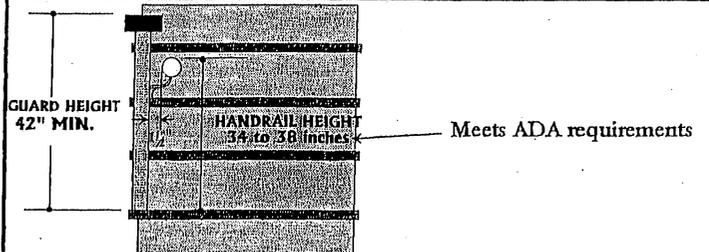
Maximum Riser Heights

- 7" NEW
- 7 1/2" "A" EXIST.
- 8" "B" EXIST.
- 7 3/4" "Class B" - New Construction



STAIR DIMENSIONS

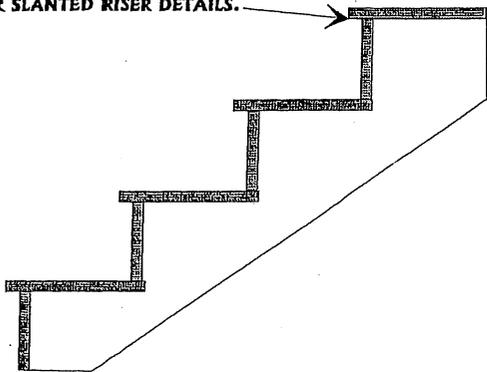
	NEW	CLASS A	CLASS B	NEW CONST. RESID.
MAX. RISER HEIGHT	7"	7 1/2"	8"	7 3/4"
MIN. TREAD DEPTH	11"	10"	9"	10"
MIN. WIDTH OF STAIR < 50 OCCUPANTS	36"	36"	36"	
WITH 50 OR MORE OCCUPANTS	44"	44"	44"	
IF USED FOR UPWARD AREA OF REFUGE	48"	48"	48"	
MAX. VERTICAL HEIGHT BETWEEN LANDINGS	12'-0"	12'-0"	12'-0"	



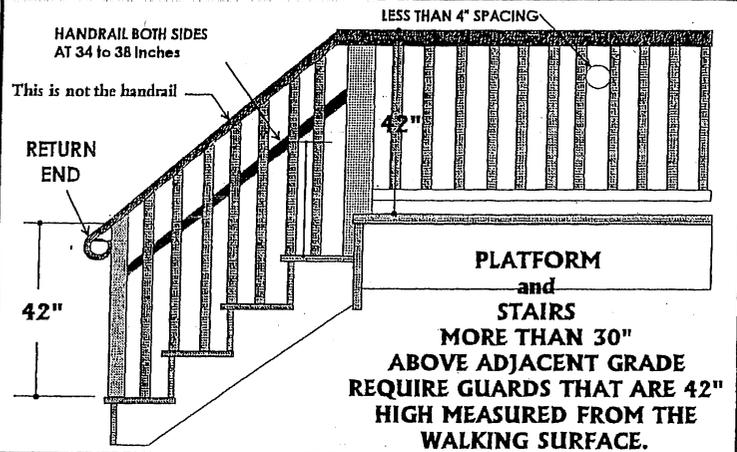
STAIR NOSINGS

PROTRUDING NOSINGS ARE NOT ALLOWED ON NEW STAIRS. THEY FORM TRIPPING HAZARDS. SEE FIGURE 1 FOR SLANTED RISER DETAILS.

fig # 2



GUARD HEIGHTS and BALUSTER SPACING



RISER HEIGHT MUST BE UNIFORM IN HEIGHT WITH NO VARIATION GREATER THAN 3/16". GREATER DIFFERENCES CAN CAUSE PEOPLE TO MISJUDGE AND STUMBLE WHILE ASCENDING AND DESCENDING A FLIGHT OF STAIRS.

FOR MORE DETAILS AND REQUIREMENTS SEE CHAPTER 5 OF THE NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE.

NOTES: