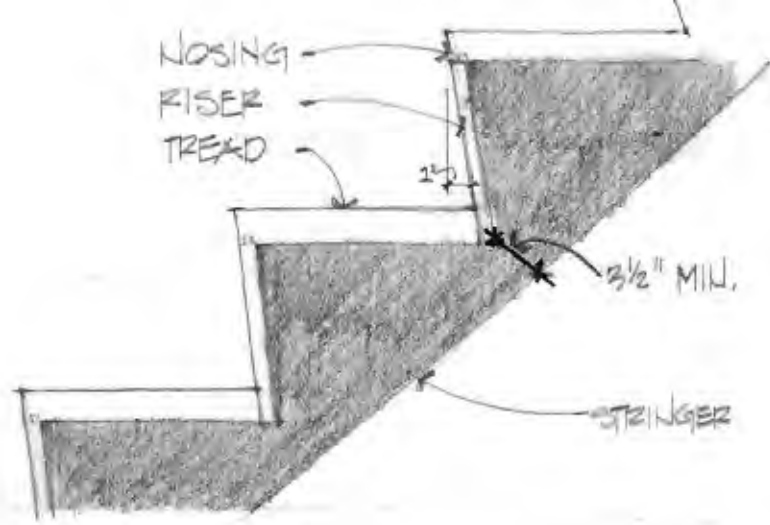


# stairs

: CALCULATION DATA : EXIT STAIRS

- MAXIMUM RISER  $7\frac{1}{2}$ " 7"
- MINIMUM TREAD 10" 11"

: NOTE: MAXIMUM RISER FOR RESIDENCES 8"  
MINIMUM TREAD FOR RESIDENCES 9"



- : RULES OF THUMB FOR PROPER TREAD TO RISER RATIO (HOW TO CHECK YOUR STAIR FOR A PITCH THAT IS TOO STEEP OR SHALLOW)
- RISER x RUN = 72 TO 75 IN INCHES
  - RISER + RUN = 17 TO 17 1/2 "
  - 2 RISERS + RUN = 24 TO 25 "

: TOTAL RISE IS VERTICAL HEIGHT TO BE TRAVERSED BY STAIRS (FLOOR TO FLOOR HEIGHT)  
: TOTAL RUN IS HORIZONTAL DISTANCE STAIRWAY OCCUPIES

SOME RULES:

- ALL RISERS MUST BE IDENTICAL IN HEIGHT FOR SAFETY AND COMFORT.
- THERE IS ALWAYS ONE LESS TREAD THAN RISER
- EXIT STAIRS MUST BE AT LEAST 44" WIDE (SECTION 3305 FT16 UNIFORM BUILDING CODE)
- LANDINGS MUST BE AS DEEP AS THE STAIR IS WIDE. (44" MIN. FOR EXIT STAIRS)
- LANDINGS MAY NOT BE MORE THAN 12'-0" APART VERTICALLY. (SEC. 3305 I, U.B.C. 1976)
- HANDRAILS MUST BE MOUNTED BETWEEN 30" & 34 INCHES ABOVE TREAD NOSING (3305 I, FT16 IBC)

