

STAIRS. Occupant Load Capacity. Factor 0.3” per occupant.

Width: Outside of Stringer to Outside of Stringer or Inside of Guard or Wall. Whichever is less!

36” = 120 persons.	62” = 206 persons.
38” = 126	64” = 213
40” = 133	66” = 220
42” = 140	68” = 226
43” = 143	70” = 233
44” = 146 persons.	72” = 240
45” = 150	74” = 246
46” = 153	76” = 252
48” = 160	78” = 260
50” = 166	80” = 266
52” = 173	82” = 273
54” = 180	84” = 280
56” = 186	86” = 286
58” = 193	88” = 293 persons.
60” = 200 persons.	

DOORS. Occupant Load Capacity. Factor 0.2” per occupant.

Clear Width of Opening. Not Door Size. 2005 CSBC Section 1008.1.1 Size of Doors.

28” = 140 persons.	(2) 28” = 280 persons.
29” = 145 persons.	(2) 29” = 290 persons.
30” = 150 persons.	(2) 30” = 300 persons.
31” = 155 persons.	(2) 31” = 310 persons.
32” = 160 persons.	(2) 32” = 320 persons.
33” = 165 persons.	(2) 33” = 330 persons.
34” = 170 persons.	(2) 34” = 340 persons.
35” = 175 persons.	(2) 35” = 350 persons.
36” = 180 persons.	(2) 36” = 360 persons.
37” = 185 persons.	(2) 37” = 370 persons.
38” = 190 persons.	(2) 38” = 380 persons.
39” = 195 persons.	(2) 39” = 390 persons.
40” = 200 persons.	(2) 40” = 400 persons.
41” = 205 persons.	(2) 41” = 410 persons.
42” = 210 persons.	(2) 42” = 420 persons.
43” = 215 persons.	(2) 43” = 430 persons.
44” = 220 persons.	(2) 44” = 440 persons.
45” = 225 persons.	(2) 45” = 450 persons.
46” = 230 persons.	(2) 46” = 460 persons.

60” Ramp and Corridors. 60” = 300 persons based on 0.2” per person.

Ramps. Required minimum clear width is measured between handrails at 36”.

2005 CSBC 1010.5.1; ANSI A117.1 2003 405.5

1 ½ Hour Fire Door. 2” Thick. Single 36” Door Opening. 35 5/8” Door.

33” Clear Width of Opening.

Single 36” Door Opening. 1 ¾” Thick. 35 ½” Door. 33.5” Clear.

Use 33” Clear Width of Opening.