

ASSEMBLY EGRESS WIDTH SUB-WORKSHEET

Is the occupant load of a Group A occupancy over 300 persons? ____ (Yes or No) If yes, see Section 1008.1

Is the assembly seating area smoke-protected? ____ (Yes or No)

If **yes**, then an evaluation per NFPA 101 shall be submitted with the plans and the egress widths shall be based not IBC Table 1008.5.2 minimums. All of the requirements of Sections 1008.5.2.1, 1008.5.2.2, and 1008.5.2.3 must be met, or else it is not smoke-protected seating.

If **no**, then use the following requirements from Section 1008.5.1 as listed below.

Clear width of aisles and other means of egress for non-smoke-protected seating shall be per cases 1 through 6 below. (*Indicate which formula is being used.*)

Where **W** = Required width in **inches per occupant**
R = Riser height in inches (from tread to tread)

Case 1 – Where $R \leq 7.0''$ Then **W = 0.3** (Formula 10-1)

Case 2 – Where $R > 7.0''$ Then **W = 0.3 + 10(R - 7.0'')(0.005)** (Formula 10-2)

Case 3 – Where egress requires stair descent without a handrail within a horizontal distance of 30'' and $R \leq 7.0''$, then add 0.075'' additional width per occupant
Then **W = 0.375 = 0.3 + 0.075** (Formula 10-3)

Case 4 – Where egress requires stair descent without a handrail within a horizontal distance of 30'' and $R > 7.0''$, then add the 0.075'' additional width per occupant plus a factor
Then **W = 0.375 + 10(R - 7.0'')(0.005)** (Formula 10-4)

Case 5 – Where ramped means of egress $> 1:12$ slope Then **W = 0.22** (Formula 10-5)

Case 6 – Where level or ramped means of egress $\leq 1:12$ slope, Then **W = 0.20** (Formula 10-6)

Note that for outdoor smoke-protected assembly seating, the width may meet the lesser of clear width of Section 1008.5.3 or the Table 1008.5.2 requirement serving the same number of seats.

Case 7 – Where outdoor smoke-protected seating using stairs Then **W = 0.08** (Formula 10-7)

Case 8 – Where outdoor smoke-protected seating using ramps, corridors, tunnels or vomitories
Then **W = 0.06** (Formula 10-8)

NOTE THAT MINIMUM AISLE WIDTHS PER SECTIONS 1008.7.1, 1008.7.2, 1008.7.3, AND 1008.7.4 MUST ALSO ALWAYS BE PROVIDED. **These widths include:**

42'' aisle for level or ramp with seats both sides	48'' for aisle stairs with seats on both sides
36'' aisle for level or ramp with seats on both sides if under 50 seats	36'' aisle stair w/seats both sides if < 50 seats
36'' aisle for level or ramp with seats one side	36'' for aisle stairs with seats one side
23'' clear to handrail serving aisle stair less than 5 rows on one side	23'' clear to handrail dividing an aisle stair