

Fred's Fire and Life Safety sheet

Definitions:

Occupant load = maximum number of occupants per Chapter 11, Table (attached)
Assembly occupancy = 50 or more per code table in any one room.

You will be required to meet the following code requirements in your design:

Plan considerations:

- 2 exit paths must be provided in rooms with an occupant load greater than 50.
- Where two exits are required, they must be separated by at least half the diagonal of the area served. Similarly, exit stairs must be separated by at least half of the diagonal (measured in a straight line from centerline of door to centerline of door).
- A room can exit through another room, but when the cumulative occupant load exceeds nine, only one more intervening room is allowed before a corridor or exit stair is provided.
- 20' is the maximum length of any dead end corridor.
- In assembly rooms, one exit must be directly into a one-hour fire-rated corridor or exit directly outside the building and connect to the street or alley.
- Party walls are 2 hour construction: assume at least 8" thick.
- Any sleeping room must have a window or two separate exit doors.
- You would be crazy to not install fire sprinklers.
- Commercial kitchens must have a shaft up through the roof for the hood exhaust.

Vertical considerations:

- No more than two floors share one atmosphere when fire separations are closed (except at atriums).
- Floors above three that open into an atrium must have fire-rated atrium openings.
- Stairs serving more than two levels must be enclosed in a shaft.
- At least one stair has to exit directly to exterior or to exit passageway.