



2021 IPC Question Of The Week

Where multiple-user facilities are designed to serve all genders, the minimum fixture count shall be calculated ____ percent, based on total occupant load.

- A) 80
- B) 90
- C) 100
- D) Multiple-user facilities shall not be designed to serve all genders

403.1.1 Fixture calculations.

To determine the occupant load of each sex, the total occupant load shall be divided in half. To determine the required number of fixtures, the fixture ratio or ratios for each fixture type shall be applied to the occupant load of each sex in accordance with Table 403.1. Fractional numbers resulting from applying the fixture ratios of Table 403.1 shall be rounded up to the next whole number. For calculations involving multiple occupancies, such fractional numbers for each occupancy shall first be summed and then rounded up to the next whole number.

Exceptions:

1. The total occupant load shall not be required to be divided in half where approved statistical data indicate a distribution of the sexes of other than 50 percent of each sex.
2. Where multiple-user facilities are designed to serve all genders, the minimum fixture count shall be calculated 100 percent, based on total occupant load. In such multiple-user facilities, each fixture type shall be in accordance with ICC A117.1 and each urinal that is provided shall be located in a stall.
3. Distribution of the sexes is not required where single-user water closets and bathing room fixtures are provided in accordance with Section 403.1.2.

This requirement overrides the base section requirement for dividing the total occupant load in half (assuming a 50-50 male/female distribution) when applying the fixture ratios of Table 403.1. The calculations are straightforward forward where the male and female fixture ratios in Table 403.1 are identical. However, where different table ratios are indicated, the calculations will require adjustment to accommodate the difference. When using this method, all fixtures required to be accessible must comply with the applicable provisions of standard ICC A117.1 and each urinal must be in a stall that provides privacy in accordance with Section 405.3.5.

