CHANGE TYPE: Clarification

CHANGE SUMMARY: The numbers of plumbing fixtures in all singleuser toilet rooms and bathing rooms count towards the total number required for a building.

2021 CODE: 403.1.2 Single-user <u>toilet</u> <u>facility</u> <u>and</u> <u>bathing</u> <u>room</u> **fixtures.** The plumbing fixtures located in single-user toilet <u>facilities</u> and bathing rooms, including family or assisted-use toilet and bathing rooms that are required by Section 1109.2.1 of the *International Build-ing Code*, shall contribute toward the total number of required plumbing fixtures for a building or tenant space. Single-user toilet <u>facilities</u> and bathing rooms, and family or assisted-use toilet rooms and bathing rooms shall be identified <u>as being available</u> for use <u>either</u> <u>by all persons regard-less of their</u> sex.

The total number of fixtures shall be permitted to be based on the required number of separate facilities or based on the aggregate of any combination of single-user or separate facilities.

CHANGE SIGNIFICANCE: The required number of plumbing fixtures for a building or space can be located in single-user facilities, separate facilities or a combination thereof. Given that single-user facilities serve all persons (not sex separated), the number of plumbing fixtures in those rooms count towards the total number of fixtures required for a building.



Fixtures in Singleuser Toilet Rooms Count Towards Total Required Quantities



Fixtures in all single-user toilet rooms count toward total required

Fixtures in all single-user toilet rooms count toward total required

A mixture of Single-User toilet facilities and Multiple-User toilet facilities
Given: Business Use having an Occupant Load of 360. Design chosen to have 5 single-user toilet facilities and two multiple-user "separate sex" toilet facilities.
Per Table 403.1: Water Closet Ratio: 1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50 Lavatory Ratio: 1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80
Calculations: Occupant load for males = $360/2 = 180$ Occupant load for females = $360/2 = 180$
Males: WCs: 50/25 + (180 - 50)/50 = 4.6 Round up to 5. LAVs: 80/40 + (180 - 80)/40 = 4.5 Round up to 5.
Females: WCs: 50/25 + (180 - 50)/50 = 4.6 Round up to 5. LAVs: 80/40 + (180 - 80)/40 = 4.5 Round up to 5.
Total required WCs = 10 Total required LAVs = 10
Five single-user toilet facilities requires 5 WC and 5 Lavs. Five WCs and 5 Lavs remain for the multiple-user "separate sex" toilet facilities.
Distribute 2 WCs and 2 Lavs for male toilet facility and, 3 WCs and 3 LAVs for female toilet facility.
OR

Distribute 2 WCs and 2 Lavs for female toilet facility and, 3 WCs and 3 LAVs for male toilet facility.



This excerpt is taken from *Significant Changes to the International Plumbing/Mechanical/Fuel Gas Codes, 2021 Edition.*

The Significant Changes series takes you directly to the most important changes that impact projects. Key changes are identified then followed by in-depth discussion of how the change affects real-world application. Photos, tables and illustrations are included to further clarify application. Available for the IBC, IRC, IFC, IECC and IPC/IMC/IFGC, the Significant Changes publications are very useful training and review tools for transitioning to a new code edition.