

Canners Association, has published a comprehensive manual, *Sanitation for the Food-Preservation Industries*.⁸⁵ For all places of employment minimum requirements for toilet facilities, washing facilities, change rooms, and retiring rooms for women are set forth in the American Standard Minimum Requirements for Sanitation.⁶ Among the detailed requirements, this standard specifies the following:

Toilets

Water closets shall be provided for each sex according to the following table. The number to be provided for each sex shall in every case be based on the maximum number of persons of that sex employed at any one time at work on the premises for which the facilities are furnished. When persons other than employees are permitted to use the toilet facilities on the premises, a reasonable allowance shall be made for such other persons in estimating the minimum number of toilet facilities required.

Number of persons	Minimum number of facilities
1 to 9	1
10 to 24	2
25 to 49	3
50 to 74	4
75 to 100	5
Over 100	1 for each additional 30 persons

Where 10 or more are employed, urinals may be provided. One water closet less than the above specified number may be provided for males for each urinal, except that the number in such cases may not be reduced to less than $\frac{1}{4}$ of the number specified above. Two feet of trough urinal shall be considered as equivalent to one individual urinal.

In new installations, the minimum floor space allotted for water closets, lavatories, and urinals should be as follows:

	Minimum width (in.)	Minimum depth (in.)	Minimum room space per unit (sq. ft.)
Water closets	32	42	16
Lavatories	24	42	12
Urinals	24	42	12

It is suggested that in the absence of state or local building codes, the requirements of the American Standard Plumbing Code, ASA-A40.7-1949, or the latest revision thereof approved by the American Standards Association, Incorporated, be followed in the construction and installation of toilet facilities.

Chemical Closets and Privies

When chemical closets or privies are permitted, they shall be of a type approved by the health authorities having jurisdiction and shall be maintained in a sanitary condition. In the absence of specific regulations, construction and maintenance shall be in accordance with American Standard Specifications for the Sanitary Privy, Z43-1935 (Supplement 108 to Public Health Reports), or the latest revision thereof approved by the American Standards Association, Incorporated.

⁸⁵ *Sanitation for the Food Preservation Industries*. Association of Food Industry Sanitarians and National Canners Association, Berkeley, Calif.

Where more than two closets for each sex are needed, a water carriage disposal system should be installed in lieu of chemical closets or privies.

Washing Facilities

At least one lavatory (wash basin) with adequate hot and cold water, preferably from a combination supply fixture, shall be provided for every 20 employees (male or female) or portion thereof, up to 100 persons, and one lavatory (wash basin) for each additional 25 persons or portion thereof. Twenty-four inches of sink with individual faucet shall be considered as equivalent to one lavatory. In all instances, a suitable cleansing agent shall be provided at each washplace.

Where employees are exposed to skin contamination with poisonous, infectious, or irritating material, one lavatory supplied with hot and cold water, preferably from a combination supply fixture, shall be provided for every 5 employees.

One shower bath with ample supply of hot and cold water from one fixture shall be supplied for every 15 workers, or portion thereof, exposed to excessive heat or to skin contamination with poisonous, infectious, or irritating material.

Individual hand towels, or sections thereof, of cloth or paper shall be provided and proper receptacles or other sanitary means maintained for disposing of used towels. Other apparatus for drying the hands may be substituted for towels upon approval by the authorities having jurisdiction. The provision of a towel for general or common use shall be prohibited.

Retiring Rooms for Women

Where less than 10 women are employed and a rest room is not furnished, some equivalent space shall be provided which can be properly screened for privacy and made suitable for the use of women employees.

At least one couch or bed shall be provided in every place where more than 10 women are employed. The number of such beds or couches required shall be as follows:

10 to 100	1 bed
100 to 250	2 beds
250 to 500	1 additional bed for each additional 250 women employees.
500 or more	A minimum of 60 sq. ft. per bed shall be provided.

In general, minimum standards for toilet facilities are delineated quite specifically as to their construction and provision for ease of cleaning. Barron⁸⁶ points out that, in some instances at least, the standard lavatories installed in washrooms fail to meet the need for ease of washing. The wash fountain with its foot-pedal control, basin large enough to permit easy bathing of arms, face, and upper torso, free-flowing stream of thermostatically tempered water, and central cleansing dispenser offers a practical solution to the problem of providing good washing facilities. In addition, the wash fountain requires less floor space, and its installation is less complicated and costly, and it is maintained with greater ease. Experience with wash fountains in female washrooms indicates that they are acceptable there.

⁸⁶ Barron, Handwashing, difficult or easy?, *Modern Sanitation*, 6, 23 (July, 1954).