

## CONSTRUCTION

Portable restrooms are the primary sanitation facility for the construction industry. Contractors realize that when employees have to leave the job site or walk too far to use restroom facilities it costs money. *The average time needed, including travel, to make one off-site restroom usage is 7 minutes. If you divide a worker's pay plus benefits/hour by 60 minutes you'll discover the cost for each minute of restroom usage.* A University of Missouri-St. Louis Study, "Provision of Sanitation Facilities at Construction Sites," calculated that at four types of construction sites studied in the St. Louis area, contractors earned an 850% return on their investment in portable facilities. Availability of units was important in the study. Every group of seven (7) workers had access to a facility within 100 feet of the group's central location. Portable units are not only less expensive than permanent facilities but their use improves productivity.

The following table indicates how many portable restroom facilities are needed based on the number of employees:

### Minimum Number of Restroom Facilities

Number of Employees	Minimum Number of Restroom Facilities If Serviced Once/Week
1 - 10	1
11 - 20	2
21 - 30	3
31 - 40	4
Over 40	1 additional facility for each 10 additional employees

  

Number of Employees	Minimum Number of Restroom Facilities If Serviced More Than Once/Week
1 - 15	1
16 - 35	2
36 - 55	3
56 - 75	4
76 - 95	5
Over 95	1 additional facility for each 20 additional employees

The Occupational Safety and Health Agency (OSHA) requires sanitation facilities at all work sites in the United States. PSAI maintains a close liaison with OSHA and other regulatory agencies such as the American National Standards Institute (ANSI) to assist in the writing, updating and observance of uniform codes and regulations, locally and nationwide.

## SPECIAL EVENTS

Proper planning is the key to successful special events and mass gatherings. Studies indicate that adequate restroom facilities have a significant impact on attendance and profitability. Since visual effects make the greatest impression on attendees, special consideration should be given to quantity, placement and service. Because users of the portable restroom facilities determine the quality of service based on both real and perceived conditions, the special events coordinator will want nice, clean, high quality units that are in good repair with vent screens and door locks. Proper service will maintain the condition of the units with regards to the level of waste, the availability of tissue and clean interior. Even if the event is not large enough to warrant pumping service, general housecleaning can make a significant impact on the event.

*A bad experience with a portable restroom can affect the users attitude toward the event itself.*

Providing too few units can have a major economic impact on promoters and vendors. Providing too many units can cause an excessive expense for the promoters. The following chart provides a guideline in determining the number of portable restroom facilities necessary to provide adequate service for your customers.

**Number of units required when no pumping service is provided  
50/50 mix of men & women  
1 unit provides approximately 200 uses with 4 hours between uses**

Average Crowd Size	Average hours at the event									
	1	2	3	4	5	6	7	8	9	10
500	2	4	4	5	6	7	9	9	10	12
1000	4	6	8	8	9	9	11	12	13	13
2000	5	6	9	12	14	15	17	29	23	25
3000	6	9	12	16	20	24	26	30	34	38
4000	8	13	16	22	25	30	35	40	45	50
5000	12	15	20	25	31	38	44	50	56	63
6000	12	15	23	30	38	45	53	60	68	75
7000	12	18	26	35	44	53	61	70	79	88
8000	12	20	30	40	50	60	70	80	90	100
10000	15	25	38	50	63	75	88	100	113	125
12500	18	31	47	63	78	94	109	125	141	156
15000	20	38	56	75	94	113	131	150	169	188
17500	22	44	66	88	109	131	153	175	197	219
20000	25	50	75	100	125	150	175	200	225	250

For anticipated crowds over 20,000 people, please call your local portable restroom contractor or contact the Portable Sanitation Association International at 800-822-3020 / 952-854-8300.