ALABAMA STATE COMMITTEE OF PUBLIC HEALTH
ALABAMA DEPARTMENT OF PUBLIC HEALTH
BUREAU OF ENVIRONMENTAL SERVICES
DIVISION OF COMMUNITY ENVIRONMENTAL PROTECTION
ADMINISTRATIVE CODE

CHAPTER 420-3-1
ONSITE SEWAGE TREATMENT AND DISPOSAL

420-3-1-T1 Table 1 Design Flow And Wastewater Concentrations.

Table 1
Design Flow and Wastewater Concentrations

Generator	Design Unit	Design Flow gpd
Dwellings (rule) [1]		
Dwelling (12 bedrooms or fewer)	per bedroom	150
13 or more bedrooms to a single system	per person	75
Establishments (guidelines) [2]		
Generator	**Design Unit [3]**	**Design Flow gpd**
Airport (not including food preparation)	per passenger	5
	per employee	15
Office	per employee	25
Marina with bathhouse or showers or toilets	per boat slip	10
Hotel (no food preparation)	per guest	60
Movie theatre (not including food preparation)	per seat	4
Restaurants (food preparation)		
open 16 hours or less	per seat	30
open 16 hours or more	per seat	50
open 16 hours or less with single service articles	per seat	20
open 16 hours or more with single service	per seat	35
carry out only to include caterers	per sq. ft. of floor space	.5
Bar (no food preparation)	per seat	5
Interstate rest area	per person	5
Gas station/convenience store (no food preparation)	per customer	4
Factory and office building		
with showers	per person per 8-hr shift	15
without showers	per person per 8-hr shift	25
Laundromat [4]	per machine	500
Store or shopping center with public restrooms	per 1000 sq ft. of	120
(Not including food preparation)	floor space	
Institutions/Establishments		
Church (no food preparation)	per seat	3
Hospital	per bed	200
Medical or dental facility	per practitioner	250
	per office personnel	15
School (no food preparation or showers)	per student	18
with food preparation and showers	per student	30
with food preparation	per student	24
Boarding school	per student	95
Nursing homes and other adult congregant living	per bed	125
Recreational Establishments		
Theater, auditorium type	per seat	5
Picnic area or public lavatory	per person	5
Camp, day (no food preparation)	per person	15
Camp, day and night		
with bathhouse (no food preparation)	per person	45
Resort cabin	per person	50
Recreational Vehicle Parks		
RV park (RVs are mobile)		
with water/power/sewage hook up	per space	100
with sanitary station	per space	50

[1] Estimated flows for residential systems assume a maximum occupancy of two persons per bedroom for systems handling fewer than 13 bedrooms. Large-Flow systems require an engineer design, including occupant loading.

[2] If there are combinations of establishments, such as a convenience store with food outlet, all contributors must be combined to estimated sewage flows and BOD loadings.

[3] Unless otherwise indicated, the design flow accounts for the employees of the establishment.

[4] See 420-3-1-.64 Disposal of Graywater.

Author:
Statutory Authority:
History: