

表 4-5 日本における浄化槽の算定基準（1）

Estimation of Population for wastewater purifier (JOHKASOU) of buildings

Category	Type of Building	Design Population			Wastewater generation and BOD load per design population (n) (Reference)		Time for discharging (Reference)		
		Formula	Unit		Wastewater per capita (liter per capita day)	BOD load (gram per capita day)			
1	Public hall	i	Public hall / cinema / theater	n = 0.08A	n : Design population (person) A : Total area (m ²)	200	30	Public hall: 8 Theater: 10 Cinema: 12	
		ii	Race course / bicycle racetrack	n = 16C	n : Design population (person) C ^{Note 1} : Number of lavatory basin	150	40	10	
		iii	Gymnasium	n = 0.065A	n : Design population (person) A : Total area (m ²)	155	40	15	
2	Residence	i	Residence	A ≤ 130	n = 5	n : Design population (person) A : Total area (m ²)	40	12	
				130 < A	n = 7				
				More than 2 kitchens and 2 bath	n = 10				
		ii	Apartment		n = 0.05A	n : Design population (person) A : Total area (m ²) (Note) In case of n≤3, n=3 or 2 (a compartment consists of one room) In case of n≥6, n=6	200	40	12
3	Accommodation	iii	Dormitory		n = 0.07A	n : Design population (person) A : Total area (m ²)	200	28	8
		iv	Home for the aged / camp		n = P	n : Design population (person) P : Full number (person)	200	40	8 (Home for the aged : 10)
		i	Hotel	With banquet room	n = 0.15A	n : Design population (person) A : Total area (m ²)	200	40	10
		ii		Without banquet room	n = 0.075A	n : Design population (person) A : Total area (m ²)	400	40	
4	Medical facilities	iii	Motel		n = 5R	n : Design population (person) R : Number of room	200	30	12
		iv	Hostel		n = P	n : Design population (person) P : Full number (person)	200	40	
		i	Large scale	With kitchen and laundry equipment	n = 8B		125	40	
		ii		B: less than 300 B: 300 or more	n = 11.43 (B - 300) + 2,400		113	36	12
		iii		Without kitchen and laundry equipment	n = 5B	n : Design population (person) B : Number of bed	200	30	
		iv		B: less than 300 B: 300 or more	n = 7.14 (B - 300) + 1,500		182	27	
5	Shop	i	Small scale		n = 0.19A	n : Design population (person) A : Total area (m ²)	130	40	8
		ii	Shop / market		n = 0.075A		200	30	8
		iii	Department store		n = 0.15A		200	30	
		iv	Restaurant	Moderate	n = 0.72A	n : Design population (person) A : Total area (m ²)	180	40	8
		v		Heavily polluted	n = 2.94A		90	40	
6	Amusement facilities	vi	Cafe		n = 0.55A		200	40	10
		vii	Pull hall		n = 0.80A		200	30	
		viii	Pachinko parlors		n = 0.075A		200	30	
		ix	Igo / mah-jongg club		n = 0.11A		200	30	12
		x	Disco		n = 0.15A		200	30	
		xi	Golf driving range		n = 0.50A		200	30	8
		xii	Bowling stadium		n = 0.25S	n : Design population (person) S : Number of range	200	30	
		xiii	Batting cage		n = 2.50L	n : Design population (person) L : Number of lane	200	30	
		xiv	Tennis club	With night lighting	n = 0.20S	n : Design population (person) S : Number of cage	200	30	10
		xv		Without night lighting	n = 3S	n : Design population (person) S : Number of court	200	30	

出典：JIS 「建築物の用途別によるし尿浄化槽の処理対象人員算定基準」を JICA 調査団が英訳

表 4-6 日本における浄化槽の算定基準（2）

Estimation of Population for wastewater purifier (JOHKASOU) of buildings

Category	Type of Building	Design Population		Wastewater generation and BOD load per design population (n) (Reference)		Time for discharging (Reference)			
		Formula	Unit	Wastewater per capita (liter per capita day)	BOD load (gram per capita day)				
6	Amusement facilities	ix	Amusement park / bathing beach	n = 16C	n : Design population (person) C ^{Note 1} : Number of lavatory basin	150	40	7	
		x	Swimming pool / ice skate link	n = (20C + 120U)/8xt	n : Design population (person) C : Number of lavatory basin U ^{Note 2} : Number of urinary t : Daily operating time per lavatory basins and urinary t = 1.0 ~ 2.0	-	-	10	
		xi	Camp	n = 0.56P	n : Design population (person) P : Full number (person)	125	40	8	
		xii	Golf link	n = 21H	n : Design population (person) H : Number of hole	250	26	10	
7	Parking lot	i	Service area	Not located in sight seeing area Located in sightseeing area Parking area without kiosk Not located in sight seeing area Located in sightseeing area	n = 3.60P n = 3.83P n = 2.55P n = 2.66P n = 2.81P	n : Design population (person) P : Number of parking space for one car	40	12	
		135	40						
		40	40						
		115	40						
		40	40						
		ii	Parking lot	n = (20C + 120U)/8xt	n : Design population (person) C : Number of lavatory basin U ^{Note 2} : Number of urinary t : Daily operating time per lavatory basins and urinary t = 0.4 ~ 2.0	-	-	8	
		iii	Gas station	n = 20	n : Design population (person)	-	-		
8	School	i	Kindergarten / elementary school / junior high school	n = 0.20P	n : Design population (person) P : Full number (person)	200	36	8	
		ii	Senior high school / college / university	n = 0.25P		200	36		
		iii	Library	n = 0.08A	n : Design population (person) A : Total area (m ²)	200	30	5	
9	Office	i	Office	With kitchen Without kitchen	n = 0.075A n = 0.06A	n : Design population (person) A : Total area (m ²)	200 270	40 40	8
10	Workshop	i	Factory/research institute / workshop / laboratory	With kitchen Without kitchen	n = 0.75P n = 0.30P	n : Design population (person) P : Full number (person)	133 200	40 30	Factory/workshop (no shiftwork): 8 Factory/workshop (shiftwork): 12 to 24 Research institute/laboratory: 8
11	Others	i	Market	n = 0.02A	n : Design population (person) A : Total area (m ²)	200	40	10	
		ii	Public bath	n = 0.17A		200	10	12	
		iii	Public toilet	n = 16C	n : Design population (person) C ^{Note 1} : Number of lavatory basin	-	-	8	
		iv	Railway station/ bus terminal	P < 100,000 100,000 ≤ P < 200,000 200,000 ≤ P	n = 0.008P n = 0.010P n = 0.013P	n : Design population (person) P : Number of passenger	-	-	First to last train

Note 1: Total number of lavatory basin and urinary

Note 2: For women's toilet, about 1/2 of number of lavatory basin is regarded as urinary

出典：JIS 「建築物の用途別によるし尿浄化槽の処理対象人員算定基準」を JICA 調査団が英訳