

CIHAN UNIVERSITY/SULIMANIA, ARCHITECTURAL DEPT.

FOURTH YEAR 2024-2025

SECOND SEMESTER LECTURE 8

Housing

IRAQI HOUSING STANDARDS

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Planning indicators of community open spaces

Facility	Age group of users	Area in sq.m. per one inhabitant	Recommended plot size in sq m		Max. distance of access from dwellings/in m/	Access
			total	field		
playfield	Children from 6 up to 11 years	0.75	600-900	400-600	200-300	crossing with access streets allowed
Sport field	Youth from 12 up to 18 years	0.50	900-1500	600-1000	500-800	crossing with collector street allowed
Community park and squares/including sport courts/	for all inhabitants	5.00	-	-	800	crossing with collector streets allowed

Planning indicators of car parking

Type of facility building served	Reference base	Number of car places
One-family row and courtyard houses	Number of car places per one house hold or	1
Multi-family building	Per 1000 inhabitants	150
Nursery	Number of car places per group of children	0.5
Kindergarten	Number of additional places	+2
Primary school and Intermediate school	Number of car places per one classroom	0.5
	Number of additional places	+2
Secondary school	Number of car places per one classroom	1
	Number of additional places	+2
Health-care center	Number of car places per 100 sq.m.. of total floor area	3-6
Mosque(church)	a/m	10
Cultural center	a/m	3-8
Youth center	a/m	3-8
Corner shop	a/m	1-2
Local market(suq) or small shop	a/m	1-3
		1-2
Shopping center	a/m	5-8
Tea house, Refreshment shop	Number of car places per 100 Consumer seats	4-8
Restaurant, casino	Number of car places per 100 Consumer seats	3-8
Local administration	Number of car places per 100 sq.m.. Of total floor area	2-4

Type of facility building served	Reference base	Number of car places
Post office	a/m	1-3
Police station	a/m	2-4

- ▶ The maximum access distance between car parks followings should not exceed:
 - ▶ - Entrances of residential building 80m
 - ▶ -Entrances of facility building 40m

Urban housing unit standards

(2-4) Dwelling category and floor area (Urban one-family housing)

Dwelling categories and floor areas (Table 12)

CATEGORY OF DWELLING			S2	M1	M2	L	E1	E2
OCCUPANCY RATE Number of persons per dwelling			1-3	3-5	5-7	7-9	9-11	11 and more
MINIMUM NUMBER OF ROOMS	BEDROOMS		1/2	2	3	4	5	6
	LIVING ROOMS		2	2	2	2	2	2
	HABITABLE ROOMS	3	4	5	6	7	8	
REQUIRED SPACE		CHARACTER OF DIRECTIVE	FLOOR AREA (sq.m)					
1	master bedroom	r.min.	21/12	15	15	15	15	15
2	2-nd bedroom	Ob.min.	-/9	12	12	12	12	12
3	3-rd bedroom	Ob.min.	-	-	12	12	12	12
4	4-th bedroom	Ob.min.	-	-	-	12	12	12
5	5-th bedroom	Ob.min.	-	-	-	-	12	12
6	6-th bedroom	Ob.min.	-	-	-	-	-	12
7	Total of sleeping and personal activities space 1+2+3+4+5+6	r.min.	21	27	39	51	63	75
8	1-st living rooms or family living room	r.min.	-	18	18	21	24	24
9	2-nd living room or guest reception room	r.min.	-	12	12	15	15	15
10	Total of living space 8+9	r.min.	27	30	30	36	39	39
11	Total of habitable space 7+10	Ob.min.	48	63	75	93	108	120
12	pace for preparation of food	Ob.min.	9	12	12	15	18	18

CATEGORY OF DWELLING			S2	M1	M2	L	E1	E2
OCCUPANCY RATE Number of persons per dwelling								
MINIMUM NUMBER OF ROOMS	BEDROOMS		1/2	2	3	4	5	6
	LIVING ROOMS		2	2	2	2	2	2
	HABITABLE ROOMS	3	4	5	6	7	8	
REQUIRED SPACE	CHARACTER OF DIRECTIVE	FLOOR AREA (sq.m)						
13	Bathroom	Ob.min.	4.5	3.5	3.5	4.5	4.5	4.5
14	2-nd bathroom	Ob.min.	-	-	-	3	3	3
15	Toilet room	Ob.min.	-	1.5	1.5	1.5	1.5	1.5
16	Storage	Ob.min.	4.5	6	6	7.5	9	9
17	Total of service space 12+13+14+15+16	r.min.	18	23	23	32	36	36
18	Circulation space	r.max.	9	12	15	21*	24*	27*
19	USEFUL IN-DOOR SPACE 11+17+18	Ob.	75-81	99-105	114-120	147-157	168-180	183-195
20	Out- door space for summer night rest	r.min.	9	15	21	27	33	39
21	Total of in-door and out-door useful space19+20	r.	84-90	114-120	135-141	174-184	201-213	221-234

Note:* Including space for internal stairs

(2-5) Dwelling category and floor area (Urban multi-family housing)

Dwelling categories and floor areas (Table 13)

CATEGORY OF DWELLING			S1	S2	M1	M2	L
OCCUPANCY RATE Number of persons per dwelling			1	1-3	3-5	5-7	7-9
MINIMUM NUMBER OF ROOMS	BEDROOMS		1	1	2	3	4
	LIVING ROOMS		1	1	1	1	1
	HABITABLE ROOMS		2	2	3	4	5
REQUIRED SPACE	CHARACTER OF DIRECTIVE	FLOOR AREA (sq.m)					
1	master bedroom	r.min.	13	21	15	15	15
2	2-nd bedroom	Ob.min.	-	-	12	12	12
3	3-rd bedroom	Ob.min.	-	-	-	12	12
4	4-th bedroom	Ob.min.	-	-	-	-	12
5	5-th bedroom		-	-	-	-	-
6	6-th bedroom		-	-	-	-	-
7	Total of sleeping and personal activities space 1+2+3+4+5+6	r.min.	12	21	27	39	51
8	Multi-purpose living room	r.min.	21	21	24	24	30
9	2-nd living room		-	-	-	-	-
10	Total of living space 8+9	r.min.	21	21	24	24	30
11	Total of habitable space 7+10	Ob.min.	33	42	57	69	87
12	Space for preparation of food	Ob.min.	9	9	12	12	15

To be continued

Dwelling categories and floor areas(Table 13)continued

CATEGORY OF DWELLING			S1	S2	M1	M2	L
OCCUPANCY RATE Number of persons per dwelling							
MINIMUM NUMBER OF ROOMS	BEDROOMS		1	1	2	3	4
	LIVING ROOMS		1	1	1	1	1
	HABITABLE ROOMS		2	2	3	4	5
REQUIRED SPACE	CHARACTER OF DIRECTIVE		FLOOR AREA (sq.m)				
13	Bathroom	Ob.min.	4.5	4.5	3.5	3.5	4.5
14	2-nd bathroom	Ob.min.	-	-	-	-	3
15	Toilet room	Ob.min.	-	-	1.5	1.5	1.5
16	Storage	Ob.min.	3	4.5	6	6	7.5
17	Total of service space 12+13+14+15+16	r.min.	16.5	18	23	23	31.5
18	Circulation space	r.max.	6	9	12	15	18**
19	USEFUL IN-DOOR SPACE 11+17+18	Ob.	57-63	69-75	93-99	108-114	138-147
20	Out- door space for summer night rest	r.min.	3	6	9-12*	12-18*	15-24*
21	Total of in-door and out-door useful space 19+20	r.	60-66	75-81	102-111	120-132	153-171

Note: S1,S2- Small; M1, M2-Medium; L-Large

R.min-recommended minimum;-ob-obligatory; ob.min - obligatory minimum; ob.max- obligatory maximum.

* First indicator for dwelling in high-rise residential building second indicator for dwelling in low-rise residential building

** in marionettes circulation floor area may be increased by 3 sq m for placing stairs.