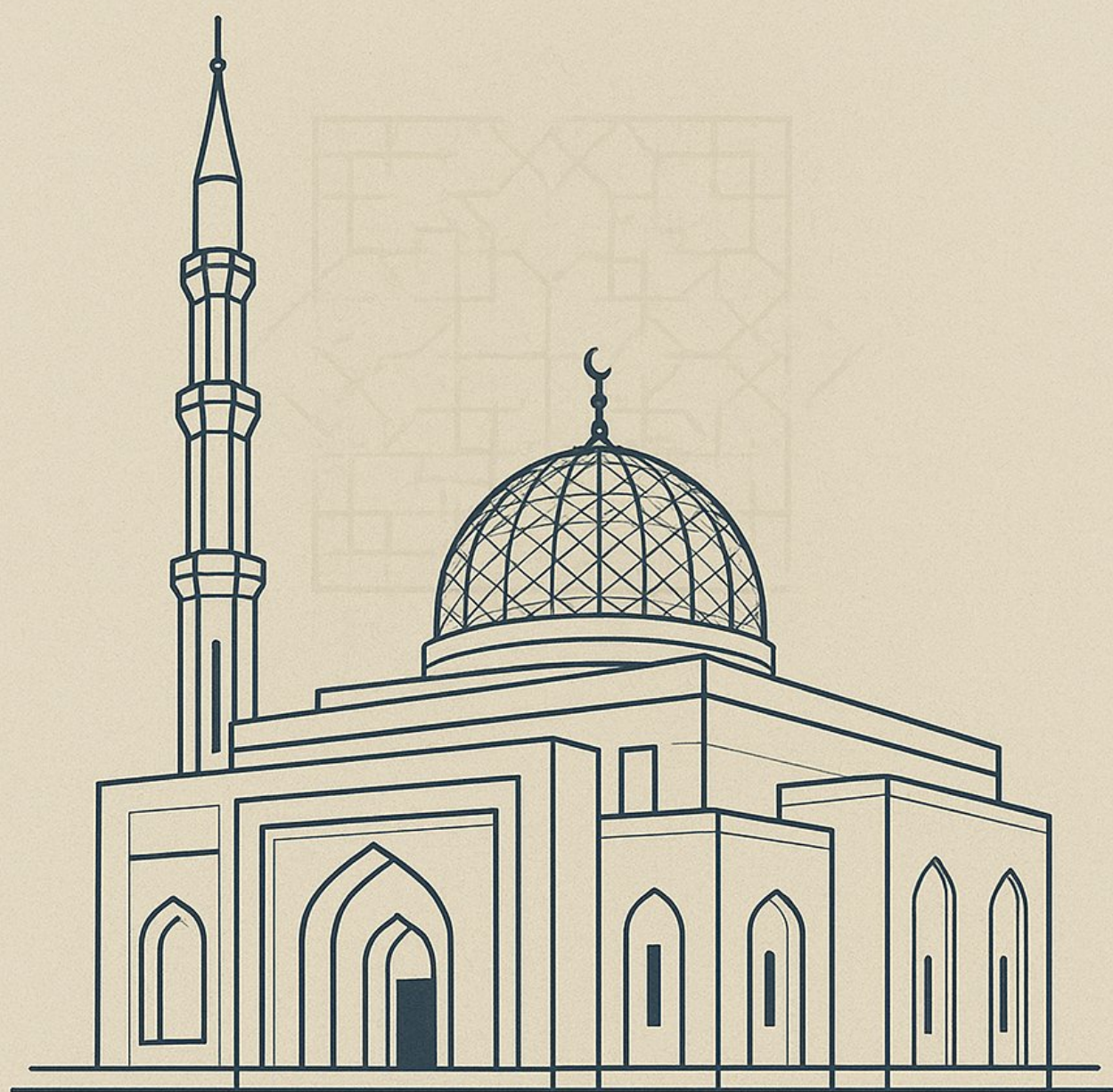


MOSQUES GENERAL DESIGN REGULATIONS



MUHAMMAD MUHYUDIN

General Design Regulations:

Each mosque consists of a prayer hall and services section:

1- **Prayer halls section:**

a) Local Mosques, consists of:

- I. Prayer hall for men with a required capacity by the attached schedule:
- II. Prayer hall for women with a special entrance, and it must be away from the entrances of the men Prayer hall, with its separate services as per the attached schedule, given that it shall be adjacent to the men hall without any connection between men and women and shall not be in the front of the men hall.

b) Gouma'h Mosques, consists of: the

- I. Prayer hall for men with an appropriate space consists of :
 - 1- A main hall to be used for Friday prayer only, with an appropriate space as per the attached schedule.
 - 2- Daily prayer with a required capacity by the attached schedule, adjacent to the main hall for the purpose of reducing the electricity consumption and air conditioning distribution and for keeping the main hall clean and ready for Friday prayer.
- II. Prayer hall for women with a special entrance, and it must be away from the entrances of men Prayer hall, with its separate services, and it shall be in the **Ground Floor**, given that the daily women prayer hall shall be adjacent to the daily men prayer hall without any connection between men and women and should not be in the front of the men hall, and its space should be as per the attached schedule.

2-- **Services section:** consists of:

a) Bathrooms and ablution places with open entrances directly toward outside, and for the purposes of reserving the privacy I, should consider the separation between bathrooms and ablution places, except women bathrooms which shall be structured to open toward the distribution corridor and then on women prayer hall, considering not to place bathrooms towards **"Al Qebelah" point of worshipping direction** (west) and the wind direction has to be considered (North western):

1- in Local mosque s (1 bathroom and 2 ablution places) for every 50-60 worshipper

2- in Gouma'h Mosques (1 bathroom and 2 ablution places) for every 70-80 worshipper.

b) Room for the crier (Muezzin with a space not less than 16 seq/m with kitchen and bathroom.

c) A Chamber for the electricity with an appropriate space as per the attached schedule.

d) An area for the chilled water and drinking basin (Al Sabeel)

e) An appropriate Services courtyard to put the ground water tanks and whatsoever.

3- Mosques entrances :

a) Local mosque s entrances consists at least two entrances.

b) Gouma'h mosques entrances consists 3 entrances at least, in addition to a two direct entrances for the main prayer hall, and a special entrance for the Orator (Al Khateeb) from the platform side (Manbar)

1- Schedule

Architectural Model	Platform Minbar	Mihrab	Women	Men		Model s	Name
			The number of worshippers	The Hall of Daily Prayer	Main Hall		
Developed local Traditional	No	Yes	25	---	125	150	1 daily P.M
	No	Yes	40	---	210th	250	2
	No	Yes	70	---	280	A 350	3
Islamic ancient or modern	No	Yes	70	---	280	B 350	4
Developed local Traditional	Yes	Yes	100	150	500	750	5 Friday P.M
	Yes	Yes	120	250	630	1000	6
	Yes	Yes	150	350	1000	A 1500	7
Islamic ancient or modern	Yes	Yes	150	350	1000	B 1500	8

Important notes:

- Due to the establishment of these mosques in various locations it must be characterized by easily adapting to the different dimensions of lands and different directions of the streets and to the land entrances.
- The worshipper number in the prayer hall can be calculated as per the area occupied by the worshipper 1.2 * 0.6 m.
- The courtyard (patio - yard, veranda) design will be up to the designer.
- Taking into consideration facilitating the entrances, exits and (bathrooms and ablution areas) services for special needs people.
- For Gouma'h Mosques, it's up to the designer to choose whether to build the mosque from one floor or two.
- The air conditioning shall be central in the Gouma'h mosques.

- Build a separate home for **(Imam)**, consists of Majles and bathroom + 3 bedrooms and kitchen and two bathrooms at least taking into account that the room area shall not be less than 4x4.

By The Name of Allah

The Mosques regulation on the private lands.

(Manufactures- Majlis/s - Government Institutions - Sport Clubs -Farms- Residential Compounds- Commercial Compounds - Petrol Stations)

- 1- To be located near the street as far as possible, to facilitate using it by the audience and establish two entrances internal and external.
- 2- For each residential unit there should be 3 mosques (2 for men - 1 for women) given that its capacity area shall accommodate 70 worshippers at least.
- 3- There shall be a praying part for women in the ground floor with its private services and its capacity shall be as per the previous clause.
- 4- Build an accommodation for the Imam with its private services.
- 5- Follow up with the Private Engineering Office to approve the frontages after getting the Ministry Of Awqaf approval on the Mosque plans.

Draft (2)

2-4-2009

Definitions:



(Mosque - masjed)

The Mosque: is the allocated place for the Muslims worshipping, whereas, the five imposed prayers held in congregation, except the Gouma'h and Eid Prayers, and called for prayer in it, and directed toward "Al Qebelah", and consists Mihrab and Minaret.

Gouma'h Mosque (Friday Mosque) : is the allocated place to perform Muslims worshipping whereas the five imposed held in congregation in addition to Gouma'h and Eid prayer, and the call for prayer, and

directed toward “Al Qebelah”, and consists Mihrab and Minaret , and usually it’s area is bigger than the Mosque.

Praying part: it is the main part in the mosque it usually consists of a building with a big hall to accommodate the prayers who intend to perform the five imposed prayers, and takes place usually in the Mosque front part and toward Al Qebelah direction which is the place where the prayer held in.

Minaret: it’s a building adjacent to the Mosque or Al Gouma’h Mosque and usually it is higher than the praying part, and it has balconies and windows where the Orator takes place, In order to let all the people hear the Caller for prayer when calling for prayer in its time, the purpose from it is to lead to or define the mosque than the other buildings.

Mihrab: it is a cavity in the center of the mosque frontage in Al Qebelah direction to accommodate the Imam with the same height of the mosque wall in Al Qebelah direction and its height commensurate with the dome above the Mihrab gab.

Platform (Minbar): it is a high place in Al Gouma’h mosque inside the praying part where the Imam stands on to tell his speaks and it preferred to be inside the mosque wall cavity from Al Qebelah side (in order not to cut the worshipper lines or reduces their numbers) and its usually be adjacent and with the same height of the Mihrab, and it is not necessary to have a Platform (Minbar) in the local mosque.

Ablution area: it is a building allocated for ablution for prayer, it is usually adjacent to the bathrooms in an indirect way.

General Requirements:

1- Types, Locations, Walking Distances:

Mosques are divided into three types: local mosque s, Gouma’h mosques, Eid mosque,

1.1 Local mosques:

It is mostly located closed to accommodations and residential compounds, and the walking distance from the residing locations to the local mosque shall not be more than 150 to 200 m.

1.2 Gouma’h mosque,:

The walking distance from the residing locations to the local mosque shall not be more than 250 to 300 m.

1.3 Eid Mosque:

It is not necessary to measure the walking distance since it can be reached by car, and there would be more than one Eid mosques in the larger cities where its population exceeds 100000 people, and in this case the available Gouma'h mosque in the residential area can be used as Eid mosque.

1.4 mosques on the external roads or the main roads

- a) inside cities
- b) outside cities

1.5 mosques inside petrol stations:

- a) inside cities
- b) outside cities

1.6 mosques in the compounds and the commercial areas.

- a) Commercial markets
- b) Commercial compounds (Mall)

1.7 mosques in the entertainment areas

- a) parks and gardens
- b) Cornish

Mosques types and locations:

Form

The scope of the mosque service

Form

2- Estimating the mosque size

Estimating the mosque capacity to accommodate a certain number of the people requires the knowledge of the male number who imposed to pray, and by estimation we found between 1000 from the population as follow:

	kids	female	Male
--	------	--------	------

%	20%	40%	40%
1000 people	200	400	400

* Kids are not imposed to pray in the mosque and it is preferred for women to pray at home therefore there (400) from (1000) people are imposed to pray in the mosque.

II.1 The minimum size for the Local mosque :

It is preferred that the mosque size should accommodate not be less than (200) worshipper, and this is through estimating that the mosque is serving a group of (500) people.

II.2 The minimum size for Gouma'h mosque:

It's size shall accommodate all the worshipper exists within its location during Friday praying, taking into account the worshippers who come over it from outside its location.

II.3 The minimum size for Eid mosque:

It's size shall not be less than accommodating (40000) worshipper in the larger cities, or the total of the male worshipper in the medium and small -size cities and villages.

The planning standards of the required mosque area:

3- Estimating the mosque area

The required mosque estimation in relation to a certain number of worshippers or knowing the accommodating capacity for a mosque already exists can be through the total area required for each worshipper in the mosque.

3.1 The share of the individual worshipper.

each worshipper occupies a rectangle with 1 sq/m , and the length of the smallest rib about 80 sq/m which represents the total area that will be occupied while the person is sitting , and the length of the bigger rib is about 120 s/m represents the total area occupied while the person is prostrating.

3.2 The individual share of the mosque services:

A 20% shall be added to the that area in case of the smaller mosques and from 30% to 40% in case of Gouma'h mosque and that for the walls and columns and WCs and stores and Imam room and the rest of the mosque services as the library and the teaching hall etc.

3.3 The individual share of the of the total built- up area of the mosque

It is recommended that the worshipper share from the mosque shall be as follows:

	Local mosques	Gouma'h mosque	Eid mosques
The principal area	1 sq/m	1 sq/m	1 sq/m
% from the services	20%	30 to 40%	5%
The Total	1.20 %	1.30% to 1.40%	10.5 %

3.4 The individual share as a base to calculate the mosque area without courtyard:

the mosque allocated to accommodate about 200 worshipper its area is supposed to be 240 sq/m (200 sq/m + 40 sq/m for services) but Gouma'h mosque that allocated to about 500 worshipper its area shall be about 700 sq/m (500 sq/m + 200 sq/m services) and so on, and these areas are applicable in case that the mosque is fully covered, i.e. in the mosque that doesn't has courtyard.

the individual share of the individual of the built-up area of the mosque

form

Gouma'h mosque - 1 sq/m in the praying place + .30 on .40 sq/m for the other services - from 1.30 to 1.40 sq/m

The local mosque - 1 sq/m in the praying place + .20 sq/m for the other services

1.20 sq/m

Eid mosque - 1 sq/m in the praying place + 0.05 sq/m for the other services - 1.05sq/m

Notes:

1) the other services do not include the yards and car parking outside the mosque

- 2) These measures are applicable to the women praying areas.

3.5 The individual share is the basis to calculate the mosque courtyard area:

In case of mosques with courtyard, should calculate the total covered area in addition to 1-2 from the uncovered courtyard, and that is because the uncovered area will not be used during the during the whole year because of the weather changes between thunders, heat, cold, rainetc.

4- women praying area :

it is preferred that all (Gouma'h and Eid) mosques have an appropriate place as a praying area for women to perform all kind of prayers specially in Fridays and during Ramadan and Eid prayers.

4.1 calculating the size of women prayer area.

Women are representing 40% of the total population, that means about 40 from every 100 person, and the understanding that it is not compulsory for women to pray in the mosques, it is estimated that 1/5 from women will go to the mosque to pray, so that means there will be 8 from every 100 resident will go to pray at Gouma'h mosque and this percentage decreases by 4 from every 100 resident who will go to pray in the Eid mosque.

4.2 calculating women prayer area:

The same men mosques measures shall be applied in calculating women praying area, therefore, the share for each worshipper will be 1.30 seq/m from Al Gouma'h mosque and 1.05 k Eid mosque and these areas including the mosque total built-up area only.

4.3 special requirements in women prayer area

- 1- The entrance of women praying area shall be independent and away from the men entrance.
- 2- Women praying area shall have its own w/c .
- 3- Women praying area shall be whether in the upper floor inside the mosque given that it shall be to the back part thereof, or to be in the back side of the mosque as per the Sunna .
- 4- And in all cases women praying area shall not be visional from outside whether from outside the mosque or from men praying area.

4.4 General concerns in respect of women praying areas:

1- There shall be women praying area allocated at Goum'h and Eid mosque and at some of the other unspecified mosques.

2- It is not required to increase the area allocated for car parking or courtyards around the mosques consists women praying areas.

3-it shall be noticed that consisting women praying area in the Gouma'h mosque does not required increasing the mosque horizontal area.

4- in case women praying area set-up in the back of the same floor level for men praying area at Al Eid mosque as per Al Sunna- in this case the total floor area shall be calculated as per the total area.

4.5 The planning standards for women praying area.

Description	Gouma'h mosque	Eid mosque
The percentage of women going to the mosque	8%	4%
The number for every 1000 resident	80	40
The worshipper share of the mosque	1.3 to 1.40 seq/m	1.05 seq/m
Car parking	Null	Null
The area outside the mosque	Null	Null
The mosque workers accommodation	Null	Null
How to arrive and the services facilities	Within the walking area and its preferred here to use the minimum level 250 seq/m	By car will be as per the standards of Al Eid mosque.

- **Shall be calculated as per men praying area.**
- **The area required for kids in the mosques**

5- Estimating the number of the kids in the mosques:

Kids represents about 20% from the total population means 20 kid from every 100 resident and by estimating that 5-20% from the total kids number will go to Friday prayer in the mosque , and that's mean that 1-4 kids from every 100 resident will go to pray in the mosque.

5.1 General concerns.

There is no need to increase the mosque area and add a new area for this purpose, because the required area for the praying area is calculated as a rectangular and the required length for its rib needed by the worshipper in the prostration position shall be (120) s/m and width of it rib needed by the worshipper in the setting position and waiting for the prayer (80) s/m but in fact that the actual area required when worshippers lining up in rows is (120)s/m and its width needed when the worshipper is sitting for Al Tashahhud or standing is about 55 to 60 s/m for each individual. And this gives us an additional area to the mosque area which about 1/3 to 1/4 from the worshipping place in the mosque, and this is considered as a safety factor when calculating the mosque area therefore, it may accommodate the kids who want to pray or any other sudden or unexpected worshipper increase.

5.2 the general standard for the kids tend to pray in the mosque:

Kids percentage in the mosque	1% in the local mosques
	4% in Gouma'h and Eid mosques
Kids number for every 100 resident	10 from every 1000 in the local mosque
The required area for each kid	Look clause 2.6
Other services (car parking- courtyard outside the mosque - workers accommodation)	Null

Mosque components:

-Mosque Components

- Boundary Wall
- Out Side Gate
- Outside entrance
- Imam house
- Crier (Muazzen) house
- the Mosque Campus

-the Mosque Campus

- the internal area

- bathrooms (sanitation)
- ablution areas
- Security room
- Servant room
- Courtyards
- The machine
- Shoos store
- Carpet store
- Cleaning material store - Minaret
- Lessons hall.

-Mosque yard (praying hall - mosque)

- Mosque yard
- platform
- Niche
- Imam Entrance
- Holly Qura'an Shelve
- The mosque decoration or the architectural style
- **Entrances and Exits:**

Satisfactory entrances shall be provided to the mosque yard and it shall be located to facilitate the worshipper entrance and exits, and shall be organized to avoid stepping over the worshippers, and shall separate women entrance totally from the men entrance. And it's preferred in the mosques accommodating more than 500 worshippers to have an emergency exit.

As well as, keeping the outside gates easy to open by the worshippers especially old and kids worshippers as well as, its passages and corridors shall have an easy to use stairs and slopes.

- **Parkings:**

A satisfactory car parking shall be provided to the mosque for better serving the worshipper who comes to pray by cars, and it shall be appropriate and easy to reach it from the main road and it shall be provided with the directions signage.

Shall provide a parking for special needs not less than one for the mosques and two for Gouma'h mosques or as it requested by the other formal entities, given that it shall be close to the mosque entrance with providing the appropriate slopes which facilitates the disabled entrance into the mosque.

Table of the required car parking:

Number of worshippers	Number of car parking	Disabled car parking
1- 200	6	1

201- 400	14	1
401- 500	17	2
501 - 1000	34	2
1001-1500	50	2
1501-2000	66	2
2001- and above	70+ parking for every 100 worshipper	3

And 8% of the parking from the women entrance
It shall be 1 parking for every 30 worshipper.

- The outside boundary

In case of making an outside boundary for the mosque for security purposes its height shall not increased more than 3 m, whereas, 1m shall be from bricks and the rest shall be from the iron or any other material in a way that facilitate the vision into the mosque .

- W/Cs and Ablution areas:

- The toilets and wash basin shall be soft and easy for cleaning and absorbance.
- These finishing shall not installed in way that blocking the water drainage.
- The toilets siphons shall be from a very good material o handle the usage pressure and cleaning the waste properly in the public places.
- The flooring shall be from soft material non-slippery easy for cleaning does not gathering the water.
- Good ventilation and natural and industrial management shall be provided to the bathrooms and ablution areas.
- Should consider the mosque purity when designing the ablution area and the w/c and determining its location and it shall be calculated as per the following table.

Type	The minimum of w/cs	The minimum of the washbasin	The minimum of the Ablution areas
Residential areas (villas)			
a) Mosques -Accommodating about 150 worshipper -Praying area accommodating (151 to 300) worshipper. b) Gouma'h mosque -(it is not allowed less than 300 worshipper -From 300 to 500 worshipper -From 701 to 1000 worshipper -More than 1000 worshipper (shall			

be reviewed by the building licensing committee			
City center and residential and commercial areas			
c) Mosques -(it is not allowed less than 150 worshipper -Praying area accommodating (150 to 300) worshipper. -Praying area accommodating (301 to 500) worshipper. d) Gouma'h mosque -(it is not allowed less than 500 worshipper -From 501 to 700 worshipper -From 701 to 1000 worshipper (shall be reviewed by the building licensing committee			
Rural areas			
e) Mosques -less than 150 worshipper f) Gouma'h mosque -(it is not allowed less than 300 worshipper -From 300 to 500 worshipper -More than 501 (shall be reviewed by the building licensing committee			
Public areas (gardens and parks) and outside highways:			
-Less than 150 worshipper men and women			

- The Decoration:

in decorating the mosque must considering the simplicity and the general beauty, clearness and quietness with ensuring that the meaning of sovereignty and nobility in the general internal and external structure of the mosque, and theses decorations shall be accredited as a local style for the mosque from the Islamic architectural overview specially in constructing the mosque which mostly depends on Arabic calligraphy and the plants and engineering decorations.

- Lighting and sounds

The speakers that will be used in the mosque shall be tested in terms of its power and directions to let that the worshipper feels totally comfortable in any corner inside the mosque, and ensures the proper listening to the Imam and the Speaker.

And about the outside speakers it shall be tested in terms of its power and directions to be heard properly from the people living close to the mosque.

The lighting shall be sufficient in all the mosque corners in a way allowing the Quraan reader who setting in the floor to see the Imam and the speaker clearly.

And about the outside lighting and the internal yards and corridors and the minaret in a way that it should not cause any visional interference or noises to the neighbors.

- Mosque workers accommodation

Mosques may provided with a special residential units for the Imam and the crier (Muzzen) and the mosque servant, and these units will be provided for the local mosque and Gouma'h mosque, and there is no need to allocate an accommodation for workers at Al Eid mosque, because it will be used irregularly in addition it is usually held in open air areas (not covered areas)

Residential unit's sizes:

the residential unit size for the Imam is either a residential unit with three bed room and hall or with two bed rooms ad hall.

And the crier (Muzzen) accommodation is either a two bed rooms and hall or one bed room and hall.

And the mosque servant is either two bed rooms and hall or one bed room and hall.

In general, in case of Gouma'h mosques or the big ones or those that are located outside building density in the city where the land prices are law, the maximum measures for the residential unit size can be applied, and in case of the small mosques or those are located within the building density in the city the minimum measures of the residential unite sizes can be applied.

General concerns in respect of the workers accommodation,

- The area of the residential unit is varied between Gouma'h and local mosque , and that after considering the percentage balance between the area of the residential units and the mosque itself.
- And the number of the residential units is varied between the Gouma'h and local mosque that is in case of the local mosque one accommodation for the Imam and an additional accommodation for the crier or the servant in sufficient.

- The mosque worker accommodation shall be located to be clear to the people because the worker accommodation is not only a “part” from the mosque, but it is related and integrated component of the mosque.
- And the workers accommodation shall be in the multi-floors building in order to save as much as possible from the land areas.
- In case of the mosques provided with a workers accommodation the total reserved area for the mosque shall be equal to the mosque area with its facilities in addition to the mosque worker accommodation area.

The suggested minimum standards for the accommodation attached to the mosque.

Clause		Imam Accommodation	Crier accommodation	Servant accommodation
Gouma'h Mosques	Description	Three bed rooms + hall	Two bed rooms + hall	Two bed rooms + hall
	Area (seq/m)	110 seq/m	80 seq/m	70 seq/m
Local mosques	Description	Three bed rooms + hall* Two bed rooms + hall	Two bed rooms + hall* one bed room + hall	Two bed rooms + hall* Or one bed room + hall
	Area (seq/m)	110 seq/m 80 seq/m	80 seq/m or 60 seq/m	70 seq/m or 60 seq/m

- The mosque size shall be calculated as well as its location in the city and the land prices and availability.

6. The Mosque services:

6.1 services type:

The mosque services consists the following major items:

- 1- Imam Room
- 2- Security or servant room
- 3- Equipments and furniture store
- 4- Holly Qura'an store
- 5- Religious library
- 6- Lessons Hall
- 7- Ablution area
- 8- Bathrooms
- 9- Cleaning material store
- 10- Courtyard
- 11- Minaret
- 12- Cultural center for big mosques
- 13- center for learning Holly qura'an
- 14- the Mosque garden
- 15- Commercial shops.

6.2 The required area:

Varies following to the number and the service area depending on the type of the mosque whether it was Gouma'ah or local mosque or depend on the mosque size, that is, all services shall be included at Gouma'ah Mosques while its enough for local mosque to have a store and ablution area.

And it has to be mentioned that the required area for these services shall be about 20% from the total area of the local praying mosque and 30% to 40% from the total built-up area for the praying or Gouma'ah mosque.

6.3 Imam Room:

It shall be located in away to be easily reached from outside the mosque directly, and it shall have a door open from inside, or it to be in an appropriate place in the mosque allowing the Imam to reach the platform without stepping over the worshipper.

The room area shall not be less than 6 seq/m (for instance 2*3) minimum, and it shall not exceeded (3*3) and the minimum measures shall be used for the local small sizes Gouma'ah or local mosque s while the maximum measures shall be used for the big sizes Gouma'ah or local mosque s.

6.4 All types of stores

All stores shall be constructed in a way not to cause any obstacles for the future expansion works to the mosque, therefore, its location can be determined in light of land conditions where the mosque intended to build in and as per the probabilities of the future expansion studies, and its preferred to be located in the basement (if any).

- The area of the equipment and furniture store shall not be less than 6 seq/m (2*3) and not exceeding 16 seq/m.
- The area of the Holly Qura'an store shall not be less than 4 seq/m (2*2) and not exceeding 6seq/m (2*3) and it is preferred to be attached to the religious library if any.
- The area of the cleaning materials shall not be less than 3 seq/m and not exceeding 6 seq/m and its preferred to be attached to the ablution area always.
- And shall considering the following in respect of the stores:
- The suggested area of the floor is determined on the bias of the full usage of the horizontal and vertical of the store space.
- The mosques doors shall open to outside not to inside.
- The stores shall be good ventilated

6.5 The religious library:

It's preferred to be included in the local mosque s in general and Gouma'ah mosque in particular to make it a scientific and cultural center for the residents within its presence.

The religious library area shall not be less than 9 seq/m for local mosque s and 16 seq/m for Gouma'ah mosques, in general there is no maximum area for the same and it can be jointly related to the lessons hall in case it was in the local mosque s and it can be jointly related to the holly Qura'an store (as it mentioned before).

6.6 Lesson hall:

As long as the praying hall in the local mosque may function as a lesson there will be no need to have it separated, but in cases of the big Gouma'ah mosques the need to have a separate lesson hall in increases and in this case it shall not be less than 20 seq/m and this area is enough to accommodate about 16 person.

6.7 Ablution area:

It's the major item in the mosques where the ablution done in, and it may become the most annoying part of the mosque if its misused, it always needs to be clean and tidy and fixed in continues basis and the ablution area location shall be carefully chosen with taking into consideration the wind direction, and the accessibility to be reached from outside and the easy accessibility from it into the mosque through sub-entrances and Al Qeblah , and the possibility of the mosque future expansion.

The ablution area shall consist WC units, ablution area and cleaning tools.

There shall be one WC and 4 water tapss for each 100 worshipper for both men and women, and cleaning materials store shall be around 3 to 4 seq/m in the praying mosques and from 4 to 6 seq/m in Gouma'ah mosque.

In general the ablution area shall not be near Al Qeblah wall, and it's preferred to be in the end of the mosque and the WC shall be in the opposite direction to Al Kaaba and it shall never be parallel to Al Kaaba.

And in the mosques consists women praying area there shall be an independent ablution areas for women related to the women praying area and in general the ablution area specially the WC shall highly reserve the privacy by a carefully study of the doors and windows design that it shall not be transparent and invisible from outside and the ablution area shall be with high level of ventilation and management and it may

be in the basement if any, without breaching the required lighting and ventilation condition.

7. Mosques in the Industrial areas

7.1 The industrial areas:

The mosques sizes in these areas shall accommodate (400) worshipper and the distance by walk will be between 150 to 200 m, or it shall be provided with Gouma'ah mosque accommodating between 800 to 1200 worshipper and as per the expected size for the industrial area - given that the distance by walk shall be 200 to 300m

7.2 markets:

Includes retail and wholesale markets whether it was inside or outside or near the city.

It shall be provided with local mosques accommodating 400 worshipper by walk and its area shall be between 150 to 200 m , or provided with Gouma'ah mosque accommodating about 1200 worshipper and the distance by walk shall be between 200 to 300 m.

Closed markets (trading centers / Malls)

7.3 sport and entertainment places:

Which includes the general parks and yards, Cornish, gems, and the other sport places whether inside or outside or near the city? Which is generally allowed to build a mosque in and its size will be determined pursuant to the number of people visiting those areas usually given that the mosque area shall accommodate 200 at least. And the distance by walk shall be from 120 to 200 m.

And in case of the independent sport and entertainment institutions like (the sport cities or the zoo), it shall be provided with Gouma'h mosque in addition to the local mosques and the mosque size will be determined pursuant to the number of the visitor to that place which shall accommodate less than 600 person, the distance shall be as aforementioned.

7.4 The isolated and uninhabited places:

Including fuel stations and the coffee shops located on the main roads. And its includes main roads cross points places as well, as it's includes the abattoirs and slaughterhouses outside the city.

And these places shall be provided with mosques its sizes accommodating not less than 200 worshipper and the mosque size shall be determine as per the actual number of the visitors to these places and the mosque shall function as both local and Gouma'ah mosques.

7.5 pilgrims rest and gathering places:

These places shall be provided with mosques accommodating between 800 to 1000 functions as both local and Gouma'ah mosques. And due to the occasionally usage of these mosques, it can take the form of open areas covered by a temporary equipments like (tents) during Al Haj season.

7.6 notes:

All the given data specially what is related to the mosque size and walking distance to it is estimated for guiding purposes, and the mosque size and location can be determine as per the using conditions and actual number of its visitors

8. mosques and its neighbors and residential units,

8.1 mosque regulations in respect to the residential neighborhood

Neighborhood shall be provided with the required mosques to serve the residents, the sizes of the local and Gouma'ah mosques shall be determined as per the population within the mosque presence pursuant to the previous discussion and the schedules related to the general mosque standard as per its type and . (Clause 13)

The local mosques shall be in the center of the neighborhood to be the main part of the residential unit and Gouma'h mosque will be the main part of the general center for neighborhood.

And the required number of the mosques within the neighborhood determine as per the residents number and the horizontal area of the mosque limited to the estimated walking distance to the mosque.

By gathering Gouma'ah mosque and the commercial jobs , public park, health center, post office and the residential buildings will have a significant center for the neighborhood related to educational services for

girls and boys and within this center Goumaa'h mosque will be principal and distinguished. (Clause 14)

And the local mosque along with its neighborhoods including commercial shops and a small public park as a playing yard for the kids may be an appropriate center for neighborhood.

In general, the mosque will be the principal item in the neighborhood and its minaret shall be the distinguished and prominent sign of the land within the neighborhood, given that the construction shall not be higher than the minaret and it shall have the same minaret architectural design.

9. Revision

9.1 Mosques and its neighbors and residential units,

(There is shape)

9.2 a reference table of the average of the required mosques number within neighborhood, as per its sizes:

Population size (people)	The total of the male worshipper	Gouma'h Mosque		local Mosque	
		Numb er	Mosque size	Numb er	Mosque size
500	200	1	200	-	-
1000	400	1	400	-	-
1500	600	1	600	1	200
2000	800	1	800	2	200
2500	1000	1	1000	2	250
3000	1200	1	1200	3	250
3500	1400	1	1400	3	300
4000	1600	1	1600	4	300
4500	1800	1	1800	4	350
5000	2000	1	2000	4	400
5500	2200	1	2200	4	400

6000	2400	1	2400	4	450
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- Note: without breaching the standard set forth the estimated walking distance to Gouma'h and local mosque.
- Independent or isolated residential units.

10. Mosques in the city centers

City centers means, services and activities centers in the city, just like city center, or the center of the residential area or the center of the residential unit. Therefore, those regulations do not applicable to the outer residential areas.

10.1 Local mosques averages

Local Mosques shall be distributed to cover all the main services centers in the cities, given that the mosque size shall not be less than 400 worshippers and walking distance to it shall be between 150 to 200 seq/m.

10.2 Gouma'h mosques averages

The main services centers in the cities shall be provided with Gouma'h Mosques, given that the mosque size shall not be less than 800 worshippers and walking distance to it shall be between 250 to 300 seq/m.

10.3 mosques regulations in respect to the city centers.

- The estimated walking area does not include the main arteries crossing to the mosque unless there are bridges or pedestrian tunnels or traffic light. If all the required factors is not exist then and in this case another mosque shall be build on the other side of the main artery and the estimated walking distance is not required in this case, whereas, that will be applicable particularly for the local mosques since worshippers attend it frequently.
- The mosques sizes above mentioned is applicable only in the city centers where the population is not heavy and in the case that the population within the city center is heavy then the mosque size will be determine as per the residents number in that area, given that it shall not be less than the above mentioned estimated mosques sizes required in the city centers.

The area serving the mosque in the city center.

(There is a shape)



(There is a shape)

10.4 The planning standards for Gouma'h and local mosques in the city centers.

Description	Radiance (m)	Mosques size (praying area)	Planning standards
Local Mosques	Walking distance 150 to 200 m	400	As per the general standard schedule
Gouma'h Mosques	Walking distance 250 to 300 m	800	As per the general standard schedule
Car parking	(1) One car parking for each (30) worshipper for both local and Gouma'h mosque, and 25 m will be allocated for each parking.		

Notes:

- 1- The mosque size is calculated considering that there are no housing / residents in the city center.
- 2- In general its preferred to use the minimum measures for the walking distance to the mosque to facilitate reaching it.
- 3- In case of the city centers that having a mixed residents usage, the mosque size will be determine as per the residents number in the area, given that it shall not be less than estimated sizes schedule above mentioned.

11. Principle consideration:

12.1 its preferred that the mosque has a rectangular shape given that the longest rib shall be facing the Al Qebelah, in order to have longer lines possible of worshippers , as its recommended that the percentage of the mosque length to the width shall be 1:2 .

12.2 and in general it is preferred that all mosques shall have open courtyards as part of the mosque and that to using it during prayer when necessary and the courtyard area shall not be less than $\frac{1}{2}$ of the small mosque as well as Gouma'h mosque.

12.3 mosques shall be provided by an open area – outside the mosque- considered as a separation part between the mosques itself reads. This open area can be used for deferent purposes in addition that it can be considered as a normal extension of the mosque where the prayer can be held in, it may function as a gathering and distribution point for the worshippers to protect them against crossing risks and preventing traffic conflicts with the pedestrians outside the mosque.

12.4 The mosque area shall accommodate all the worshippers residing within the borders which it serving, and shall not be less than that.

12.5 in case of the residential areas where the population is high – about 10000 people- to avoid increasing the size of the big Gouma'h mosques it can be designed to accommodate $\frac{1}{3}$ worshipper numbers , and the quarter will be distributed for the open areas outside the mosque, or there shall be more than one Gouma'h mosque.

12.6 each mosque shall be provided with one appropriate car parking, and its preferred to be clause to the mosque , and the parking area for the local mosques calculated by one car for each 40 praying area or 55 m from the built -up area of the mosque 4 cars minimum , and Gouma'h mosques calculated by 30 praying area or 45 m from the built-up area of the mosque 15 car minimum.

12.7 for distinguishing the mosque shall take into consideration keeping the building around the mosque lower than its minaret and it shall not overwhelm the mosque whether by its high tot type or size. And for that purpose its preferred always the mosque should rounded by yard or park to keep the mosque highlighted and not overwhelmed by the surrounding buildings.

12.8 The mosque location is preferred to have multi-entrances to facilitate mosque usage, and it shall have entrances for women and entrance for ablution area.

12.9 when choosing the mosque location should take into consideration the ablution areas as a main part of the mosque- easy to be reached from outside and it shall have its independent entrance not close to the mosque main entrance, as well as it shall be in a place with good ventilation and lighting conditions.

12.10 the mosque importance within its residential neighborhood is not only a planning problem to be solved, its further reflects the religion importance and strength and effect over Muslims daily lives, therefore, the importance and necessity to distinguish the mosque within its neighborhood is a must.

12.11 shall take into consideration the ancient Islamic urban style in mosques designs.

12.12 The mosque with the minaret shall represent the main part of the Islamic city.

*** Mosques design shall include the following conditions:**

1- The design and execution and control shall be done by qualified Muslims who has a very good experience in the Islamic architecture and building works. And the manger of the designated consultant office shall Muslim as well as the engineers who are responsible for the mosque design.

2- Its preferred that mosque be with a rectangular shape while the longest rib shall be faces to Al Qebla , and shall not make any gab over the rib contains the Mihrab , as its preferred not to have any columns in the mosque hall to have a non-interrupted lines.

3- May add a library and women praying area and store and Holly Quran teaching rooms attached to the mosque its number can be determine as per the number of worshippers in the mosque and the committee survey taking into considering between men and women entrances .

4- Mosques generally shall have courtyards as part of the mosque and allocating a place to put chilled water tanks and covering places to keep worshippers shoes.

5- And it's preferred that WC to be separated from the mosque and shall have an independent entrance. And it shall be toward or facing Al Qebla as per the Islamic rules, and its preferred to be in the south-east corner. As it shall have the eastern style and only one of them can be as per the western style.

6- The ablution area is an essential part of the mosque

7- And its preferred to have a boundary around the mosque campus with an appropriate height given that half of it shall be from bricks and the upper half shall be vacant.

8- Avoid using any decorations or photographs against to the Islamic rules.

9- The internal and external finishing material shall suit the mosque gravity

10- Shall put all the required signage to lead the worshipper to all entrances and directions and services facilities in the mosque.

* shall provide the mosques located in the public markets and parks with women praying area, and the minimum services for the same shall be as following:

-WC (2)

-water taps (2)

- Ablution area (2)

* shall provide the commercial centers which it area exceeding 100,000 seq/ft with praying areas for both men and women, and providing it with minimum level of services for both genders.

* And shall take into consideration the number of the worshippers as well as the lighting and sounds when designing the light and sound systems inside the mosque hall and distributing the sound system by the competent authorities.

* The mosques dimensions shall be designed as per the urban style approved by the competent department.

* The mosques minarets shall be design pursuant to the urban style approved by the competent department.

* shall get the approval of the other authorities that may be required by the competent authority to build a mosque or doing any amendments over it.

* shall study the mosque entrances and the worshippers (men and women) movements from and to the mosque to make sure that its totally separated than each other and facilitate using the ablution areas for both genders without overlapping in the movement.

13. The general estimated averages of all mosques types as per its sizes:

13.1 In the next pages the averages and all the estimated results will be reviewed for each of the following:

1- Local mosques

2- Gouma'h mosques

3- Eid Mosque

13.2 And the averages will consist the following:

1- The mosques estimated averages will be as per its sizes, and it will offer a comprehensive data regarding the total population and the mosque size. and the maximum number of the residents who benefits from the mosque, and the mosque allocated area, and the walking distance to the mosque, the required car parking, the covered part percentage to the open part of the mosques with a courtyard, and the distribution of the worshippers between the covered area and the open area of the mosques with a courtyard and the calculation bases of the built-up area whither it has a courtyard or not, as well as, the calculation bases for women praying area (in case of Gouma'h mosques) and the other requirement needed to the mosque like outer yards and the workers accommodations units – if any-.

2- the mosques areas schedules pursuant to its type and size, offers a full data about the required areas for the deferent mosques as per its sizes and type, whether it was with courtyard or not, and these schedules mentions the mosque build-up area and divide it to a covered area and open area (in case of the mosques with courtyard). As it offers the area of the required yards outside the mosque, as well as the required area for car parking and it offers the mosque total basic area including the total of the above mentioned areas. The schedule offers the required area for the workers accommodation within the mosque - if any- and then the total reserved area for the mosque that includes the main area in addition to the worker accommodation area.

13.3 The estimated averages for the local mosques as per its sizes

The mosque size (person)	200	250	300	350	400	450	600	800
Total population (resident)	Min	40	50	60	70	80	90	120
	Max	70	90	110	125	140	160	210
The maximum limit of the residents served by the mosque	500	650	750	900	1000	1150	1500	2000
*** Car parking	Average	One car for every 40 praying area or 55 seq/m from the build-up area						

	Numb er	5	7	8	9	10	11	15	20
Walking distance (m)	Min	150 m							
	Max	200m							
The area served by the Mosque (Ha)	Min	7 ha							
	Max	12.5 ha							
** the cover percentage to the courtyard of the build-up are	1:2 (for each 2 seq/m of the covered area shall be 1 seq/m of the open area)								
** the build-up are calculation	Cover ed	102 seq/m for each worshipper							
	Open	2.40 seq/m for each worshipper							
Courtyard outside the mosque (seq/m)	2 seq/m for each 5 praying area given that the width shall not be less than 2 m								
** the worshipper distribution to the covered and open parts.	1:4 (for each 4 worshippers in the covered area shall be 1 worshipper in the open part of the mosque build-up are.								

- Estimated numbers
- * in the mosques with an open courtyard
- ** is not applicable to the city centers .(look clause 8)
-

Schedule no. (7-1-13)

The estimated averages for Gouma'h mosque as per its sizes

The mosque size (person)		800	1200	1600	2000	2400	2800	3200
Total population (resident/ ha)	Min	70	110	140	180	210	250	290
	Max	100	150	210	260	310	260	410
The maximum number of the people served by the mosque		2000	3000	4000	5000	6000	7000	8000
****	Average	One car for every 30 worshipper or 45 seq/m from the total build-up of the mosque.						
Car parking	number	26	40	53	66	80	93	106
Walking distance seq/m	Min	250m						
	Max	300 m						
Served area	Min	19.5 ha						

	Max	28 ha
** the percentage of the covered area to the courtyard of the build-up area		1:3 (for each 3 seq/m of the covered area shall be 1 seq/m of the open area)
** the build-up are calculation	Covered	1.30 seq/m for each worshipper
	Open	2.60 seq/m for each worshipper
Outer Courtyards seq/m		1 seq/m for every 3 worshippers given that the smallest rib shall not be less than 4 seq/m
** The worshipper distribution to the covered and open parts.		1:6 (for each 6 worshippers in the covered area shall be 1 worshipper in the open part of the mosque build-up are.
Women praying area		1.30 seq/m for each female worshipper.

Schedule no. (8-1-13)

The estimated averages for Gouma'h mosque as per its type)

Mosque size (person)		800	1200	1600	2000	2400	2800	3200
Mosque with courtyard	Covered seq/m	890	1330	1780	2220	2670	3110	3560
	Courtyard seq/m	300	450	600	750	900	1050	1200
	Built-up are seq/m	1190	1780	2380	1970	3570	4160	4760
	Outer courtyards seq/m	260	400	350	670	800	910	1070
	Car parking area seq/m	650	1000	1320	1650	2000	2320	2650
	The total primary area of the mosque	1100	3180	4230	5290	6370	7410	7480
	Worker accommodation seq/m	250	250	250	250	250	250	250
	The total reserved area for the mosque seq/m	2350	3430	4480	5540	6620	76620	8730
	build-up area seq/m	1040	1560	2080	2600	3120	3640	4160
	Outer courtyards	260	400	530	670	800	9300	1070

mosque without courtyard

seq/m									
Car parking area	650	1000	1320	1650	2000	2320	2650		
seq/m									
The total primary area of the mosque	1590	5160	3930	4920	5920	7890	7880		
Worker accommodation	250	250	250	250	250	250	250		
seq/m									
The total reserved area for the mosque	2200	4510	4180	5170	6170	7140	8130		
seq/m									

Schedule number (13 -1/-) Eid mosque planning

Description	Eid mosque (men only)	Eid mosque with women praying area
The mosque size	40% from the population	46% from the population
The number of worshipper for every 10000 resident	400	460
The individual share of the praying hall seq/m	1.0 seq/m	1.0 seq/m
The individual share of the services	0.25 seq/m	0.05 seq/m
He total area required for each worshipper	10.5 seq/m	1.05 seq/m
Eid mosque in the main cities	There shall be one Eid mosque accommodating 40000 worshipper For each 100000 resident)	There shall be one Eid mosque accommodating 46000 worshipper For each 100000 resident)
Eid mosque in the small cities	Accommodating all the male residence (40% of the total population)	Accommodating all the male residence (46% of the total population)

14. The residential neighborhood design – practical example

14.1 preambles

The modern urban planning shall not ignore the Arabic tradition of the Islamic Arabic city. And we shall reserve it and raise it and protect it against copying from other cultures and tradition randomly. And the mosque – as center for the religion- that concerns about Muslims daily life issues and it shall have the top priority when designing the residential neighborhood and this residential neighborhood model is prepared as a practical example explaining how the mosque shall be the core center in the residential neighborhood and how the general design shall be for the residential and central areas in the ancient Arabic Islamic city.

14.2 The model conception

The residential neighborhood design shall be as per following considerations:

- 1.
2. Gouma'h Mosque shall represent the outstanding element in the center of the residential neighborhood services, and the local mosque shall represent the outstanding element inside the residential cells.

3. The mosque within the residential neighborhood shall be jointed to each other by walk ways net.
4. The central services center within the residential neighborhood is deemed the main point to the pedestrians whereas the all the services can be found whether it was religious or any other services, which helps to keep the ancient Arabic Islamic city heritage.
5. Shall build the residential services center in light of the Arabic Islamic touch through placing residential buildings consist (3 floors) around the main residential point to the pedestrians, and the families accommodations consist (1 or 2 floors) behind it.
6. The family's accommodations shall not open to the main roads specified for the residential neighborhood.
7. Gouma'h mosque shall be the outstanding element within the residential neighborhood and its not allowed to other buildings to imitate its style or size or height.

**The initial planning for the mosque
And the estimated averages and the worshippers numbers for
each mosque.**

The mosque type	The number of the served residential accommodation	The number of worshippers required		The number of mosques required	
		Local Mosques	Gouma'h Mosques	local	Gouma'h
Local	75-100	150-300	-	1	-
	200-250	400-500	500 praying area	2	-
Gouma'h	300-500	600-1000	1000 praying area	2	1
	500-100	1000 -2000	2000	3	2

How the mosque area estimation done

Local mosques	Gouma'h mosque
Each worshipper requires 1.42 seq/m from the total area.	Each worshipper requires 1.72 seq/m from the total area.

The required additional area for the mosque

- a- Add 30% from the floor as a percentage factor to the outer service area.
- b- Add 70% from the floor as percentage factor in case if the plot ribs are not paralleled.
- c- In case of Gouma'h mosque the car parking calculated as one parking for each 25-30 praying area or to each 40 seq/m from the area.
- d- The maximum walking distance shall be 250-300 m.

According to its sizes

The population	The worshipper total number	Local mosques		Gouma'h mosque	
		Mosques #	Mosques capacity	Mosques #	Mosques capacity

(people)					
500	200	1	200	-	-
1000	400	-	-	1	400
1500	600	1	200	1	600
2000	800	1	300	1	800
3000	1200	2	300	1	1200
4000	1600	3	300	1	1600
5000	2000	4	300	1	2000
6000	2400	4	300	1	2400
8000	3200	6	300	2	1600

Basic options in estimating the number and the capacity of the mosques according to the population:

1. The population is calculated pursuant to the residential units exists in the area and pursuant to the population for each are as follows:
 - a- The areas with a low population like the residential villas area and the private houses the population calculated by 3-5 person for each residential unit.
 - b- Areas with a high population. Like the residential buildings and the central areas in the cities the population calculated by 5-7 person for each residential unit.

Note: the residential unit with the low population density represents the villa or the private building (traditional house)

The residential unit with the high population density represents the apartment which deems an element in the residential buildings and the other buildings in the central areas in the cities.

Basic considerations in estimating the size of the mosques according to the worshipper's number:

- a- The number of the worshipper is calculated by 2 worshippers for each residential unit in the local mosques, and 3 praying area for each residential unit in Gouma' mosque.
- b- The daily prayer can be held at Gouma'h mosques and it may perform as local mosques as well, and may allocate a part from Gouma'h mosque for the daily prayer.
- c- When the plot borders are not parallel toward al Qebila the percentage of the outer service area shall be added to the total required area.

- d- The car parking calculation varies pursuant to the mosque location whether it was in the city center or it's outlying.
- e- About 150-200 seq/m shall be added to the Imam accommodation at Gouma'h mosque.

How to estimate the mosque size:

Local Mosque/ the size of the local mosques - 40% from the total population exists within services area.

Gouma'h mosque / the size -48% from the total population exists within its service area taking into account that it shall have women praying area.

The above mentioned percentages shall be estimated considering that the population shall consist male and female and kids, and the above mentioned percentages calculated as per the adult male number who prays in the mosques both (daily pray - Gouma'h).

The individual share from the mosque build- area,

Shape

Description	Local / daily prayer mosques	Gouma'h mosques
The area required for each person in the praying place	0.72 seq/m	0.72 seq/m
The area required for each person in the courtyard	0.30 seq/m	0.40 seq/m
The area required for each person of the services	0.40 seq/m	0.60 seq/m
The average of the area	1.42 seq/m	1.72 seq/m

occupied by the worshipper		
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And Eid Mosque requires up to 1.5 seq/m as a total area for the mosque and services.

Local / Daily prayer Mosque elements

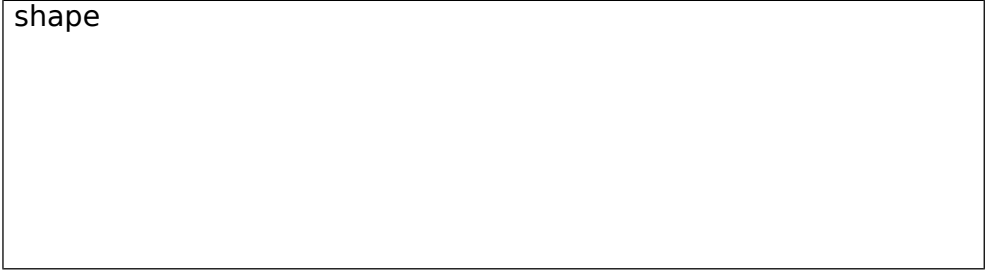
- 1- Praying hall
- 2- Niche
- 3- Balcony/ Courtyard
- 4- w/c
- 5- ablution areas
- 6- minaret
- 7- security room
- 8- entrance

Shape

Gouma'h mosque elements:

- 1- Praying hall
- 2- Niche
- 3- Courtyard
- 4- w/c
- 5- ablution areas
- 6- minaret
- 7- security room
- 8- library and studying room
- 9- services (electricity room -management store)
- 10-entrances (main and secondary)
- 11-car parking and green land escapes
- 12-Imam accommodation.

shape



First: Local / Daily prayer Mosque elements

Model (a)

The elements of the Local / Daily prayer Mosque accommodating 150-250 worshipper

Elements:

- 1- Praying hall
- 2- Balcony
- 3- Courtyard
- 4- Ablution area and the WC
- 5- Security and crier / Muzzen accommodation
- 6- Minaret

shape



The required areas for the mosque in Model (a)

- 1- A plot dimensions 30x30 where its ribs suppose to be parallel to or vertical toward the Al Qebila accurately
- 2- May increase the plot for about 10% from the area to make car parking equals to one car parking for each 50-55 seq/m from the total area of the land.


Local / Daily prayer Mosque elements

Model (b)

The elements of the Local / Daily prayer Mosque including 300-450 praying area

- 1- Praying hall
- 2- Balcony
- 3- Courtyard
- 4- Ablution area and the WC
- 5- Security and crier / Muzzen accommodation
- 6- Minaret
- 7- Women praying area in the ground floor.

shape



The required areas for the mosque in Model (b)

- 1- A plot dimensions 35x35 where its ribs suppose to be parallel to or vertical toward the Al Qebila accurately
- 2- May increase the plot for about 10% from the area to make car parking equals to one car parking for each 10-55 seq/m from the total area of the land.

Second: Gouma'h Mosque

Model (c)

The elements of the Local / Daily prayer Mosque accommodating 500-800 worshipper.

Elements:

- 1- Praying hall
- 2- Balcony
- 3- Women praying area in the MZ floor
- 4- Courtyard
- 5- Service
- 6- Ablution area and the WC
- 7- The store and water tanks space
- 8- Workers accommodation (crier/ muzzen, security) with a small kitchen and private path room
- 9- Minaret

shape

The required areas for the mosque

- 1- A plot dimensions 45x45 seq/m where its ribs suppose to be parallel to or vertical toward the Al Qebila accurately
- 2- In case of offering a car parking that's requiring the addition of 15 to 20 % from the total area which equals one car parking for each 30-40 worshipper..

Second: Gouma'h Mosque


Model (d)

The elements of the Local / Daily prayer Mosque accommodating 1200-2000 worshippers

Elements:

- 1- Praying hall
- 2- Balcony
- 3- Women praying area in the MZ floor
- 4- Courtyard
- 5- Service including (a- Ablution area and the WC, b- The store and water tanks space)
- 6- Workers accommodation (crier/ muzzen, workers, security) with a small kitchen and private path room
- 7- Minaret

Shape



The required areas for the mosque

- 1- A plot dimensions 60x60 m toward the Al Qebila
- 3- car parking equals one car parking for each 30-40 worshipper..

Al Qebila Direction in Qatar

Al Doha city is located toward the west of Makah and in the angle equals 262.5 degree starts from the north toward the west and in case it calculated from the west toward the south the angle would be 7.5 degree (seven and half degrees only) from the west toward the south.

Shape

