



BUSINESS OCCUPANCY

FIRE PREVENTION DEPARTMENT GENERAL DIRECTORATE OF CIVIL DEFENCE MINISTRY OF INTERIOR, STATE OF QATAR

BUILDING PLAN - FIRE SAFETY GUIDE

BUSINESS OCCUPANCY - OFFICES

I	APPLICATIONS		GENERAL OFFICES / CITY/MUNICIPAL HALLS/ COURTHOUSES / DOCTORS/DENTIST OFFICES / MEETING ROOMS [<50 SEATING CAPACITY] / BARBER SHOPS/SALONS / SERVICE FACILITIES (NEWSSTAND, LUNCH COUNTERS) < 50 PERSONS / CLASSROOM/INSTRUCTIONAL LABORATORIES < 50 SEATING CAPACITY / BIRTH CENTERS/AMBULATORY OUT-PATIENT CLINICS < 4 PATIENTS			
	OCCUPANCY USED FOR TRANSACTION OF BUSINESS OTHER THAN MERCANTILE					
II	OCCUPANCY CLASSIFICATION		BUILDING HEIGHT REQUIREMENTS		BUILDING AREA REQUIREMENTS	
A	LOW-RISE BUSINESS OCCUPANCY		≤ 15M		≤ 500M²	
B	MEDIUM-RISE BUSINESS OCCUPANCY	TYPE A - MEDIUM-RISE BUSINESS OCCUPANCY	> 15M TO ≤ 18M		> 500M² - ≤ 1000M²	
		TYPE B - MEDIUM-RISE BUSINESS OCCUPANCY	> 18M TO ≤ 28M		> 1000M²	
C	HIGH-RISE BUSINESS OCCUPANCY		> 28M		UL-UNLIMITED	
III	BUILDING AND SITE ACCESS FOR FIRE FIGHTING & RESCUE					
	FIRE SAFETY PROVISIONS	MINIMUM REQUIREMENTS	LOW-RISE OFFICES	MEDIUM-RISE OFFICES		HIGH RISE OFFICES
				TYPE A	TYPE B	
A	SITE ACCESS	4.0M MINIMUM CLEAR WIDTH	REQUIRED	REQUIRED	REQUIRED	
		4.5M MINIMUM CLEAR HEIGHT				
B	ACCESS ROAD	4.0M MIN. WIDTH AND 24 TON LOAD CAPACITY	REQUIRED	REQUIRED	REQUIRED	
		WITHIN A TRAVEL DISTANCE OF 45M FROM EVERY POINT ON PROJECTED PLAN AREA OF ANY BUILDING.				
C	FIRE ENGINE HARDSTANDING	LENGTH OR NUMBER BASE ON THE GROSS FLOOR AREA OF THE BUILDING	REQUIRED WHEN BUILDING HABITABLE HEIGHT EXCEEDS 10M	REQUIRED	REQUIRED	
		6M X 15M (MINIMUM), WITH LONGER SIDE PARALLEL TO THE FAÇADE OF THE BUILDING				
		POSITIONED SO THAT THE NEARER EDGE SHALL NOT BE LESS THAN 2M OR NOT MORE THAN 10M FROM THE CENTRE POSITION OF THE ACCESS OPENING, MEASURED HORIZONTALLY.				
D	FIRE COMMAND CENTER	HIGH-RISE BUILDING AND OTHER THAN HIGH-RISE WITH EMERGENCY VOICE COMMUNICATION SYSTEM AND/OR SMOKE CONTROL SYSTEM	NOT REQUIRED	REQUIRED WHEN EITHER OF THE EMERGENCY VOICE COMMUNICATION SYSTEM AND/OR SMOKE CONTROL SYSTEM WAS PROVIDED	REQUIRED	
		9M² MINIMUM AREA (LEAST DIMENSION 2.5M)				
		AT LEAST WITH 1M CLEARANCE FROM ALL EQUIPMENT				
		2-HOURS ENCLOSURES (WALLS, OPENINGS & PENETRATIONS)				
		PROVIDED WITH PROMINENTLY MARKED EXTERIOR ENTRANCES				
		INSTEAD OF A DEDICATED FIRE RATED ROOM: LOBBIES OR OTHER SPACES ADJACENT TO THE MAIN ENTRANCE OF THE BUILDING	NOT APPLICABLE	PERMITTED	NOT PERMITTED	



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E	FIRE LIFT	BUILDINGS EQUAL OR MORE THAN 28M HIGH ABOVE ENGINE ACCESS LEVEL OR EXCEEDING 9M BELOW THE LEVEL OF EXIT DISCHARGE	REQUIRED IF EXCEEDS 9M BELOW THE LEVEL OF EXIT DISCHARGE	REQUIRED IF EXCEEDS 9M BELOW THE LEVEL OF EXIT DISCHARGE		REQUIRED
		SERVES ALL HABITABLE FLOORS	REQUIRED IF EXCEEDS 9M BELOW THE LEVEL OF EXIT DISCHARGE	REQUIRED WHEN FIRE LIFT/S PROVIDED		REQUIRED
		CONTAINED WITHIN A DEDICATED PROTECTED SHAFT OR A COMMON PROTECTED SHAFT CONTAINING OTHER LIFTS SUBJECT TO SUCH OTHER LIFTS ARE SERVED AT EACH STOREY BY A FIRE FIGHTING LOBBY				
		APPROACHED BY FIRE FIGHTING LOBBY AT EACH STOREY				
		ADJACENT AND ACCESSIBLE TO AN EXIT STAIRCASE				
		TYPE AND MINIMUM REQUIRED NUMBERS: REFER TO NFPA 5000 (2012 Ed.) CHAPTER 54. WHEN REQUIRED, AT LEAST ONE (1) FIRE LIFT FOR EVERY 900 SQM. FLOOR AREA	REQUIRED IF EXCEEDS 9M BELOW THE LEVEL OF EXIT DISCHARGE	REQUIRED IF EXCEEDS 9M BELOW THE LEVEL OF EXIT DISCHARGE	REQUIRED	REQUIRED
IV	MEANS OF EGRESS					
A	MEANS OF EGRESS GENERAL REQUIREMENTS		LOW-RISE OFFICES	MEDIUM-RISE OFFICES		HIGH RISE OFFICES
				TYPE A	TYPE B	
1	SEPARATION OF MEANS OF EGRESS	COMPLYING WITH CHAPTER 7 NFPA 101	REQUIRED	REQUIRED		REQUIRED
	EXIT ACCESS CORRIDORS	SERVING AN AREA HAVING AN OCCUPANT LOAD EXCEEDING 30	1-HR FRR*	1-HR FRR*		1-HR FRR*
	EXITS	CONNECTS 3 OR FEWER STORIES	1-HR FRR*	1-HR FRR*		1-HR FRR*
		CONNECTS 4 OR MORE STORIES	2-HRS FRR*	2-HRS FRR*		2-HRS FRR*
	OPENING PROTECTIVE CONSTRUCTION	FIRE DOOR ASSEMBLIES EQUIPPED WITH DOOR CLOSERS	REQUIRED	REQUIRED		REQUIRED
		LIMITED OR NON-COMBUSTIBLE MATERIALS	REQUIRED	REQUIRED		REQUIRED
	OPENINGS AND PENETRATIONS IN EXIT ENCLOSURE	COMPLYING WITH CHAPTER 7 NFPA 101	PERMITTED	PERMITTED		PERMITTED
2	EXITS HEADROOM	NOT LESS THAN 2285MM	REQUIRED	REQUIRED		REQUIRED
	HEADROOM ON STAIRS	NOT LESS THAN 2285MM	REQUIRED	REQUIRED		REQUIRED
3	WALKING SURFACES IN THE MEANS OF EGRESS	COMPLYING WITH CHAPTER 7 NFPA 101	REQUIRED	REQUIRED		REQUIRED
4	CHANGES IN LEVEL IN THE MEANS OF EGRESS	COMPLYING WITH CHAPTER 7 NFPA 101	REQUIRED	REQUIRED		REQUIRED
5	GUARDS	PROVIDED AT THE OPEN SIDES OF MEANS OF EGRESS 760MM ABOVE THE FLOOR OR FINISHED GROUND LEVEL	REQUIRED	REQUIRED		REQUIRED
6	IMPEDIMENT TO EGRESS		NOT PERMITTED	NOT PERMITTED		NOT PERMITTED
7	MEANS OF EGRESS RELIABILITY	CONTINUOUSLY MAINTAINED FREE OF ALL OBSTRUCTION OR IMPEDIMENTS	REQUIRED	REQUIRED		REQUIRED
	FURNISHING AND DECORATION	FURNITURES OR MOVABLE OBJECTS, MIRRORS, ETC.	NOT PERMITTED	NOT PERMITTED		NOT PERMITTED
B	MEANS OF EGRESS COMPONENTS					
1	FIRE DOORS	COMPLYING WITH CHAPTER 7 NFPA 101	REQUIRED	REQUIRED		REQUIRED
	SIDE-HINGE OR PIVOTED-SWINGING TYPE	ANY DOOR ASSEMBLY IN A MEANS OF EGRESS	REQUIRED	REQUIRED		REQUIRED
		MINIMUM DOOR LEAF WIDTH	810MM (32IN.)	810MM		810MM (32IN.)
	HORIZONTAL SLIDING DOORS	COMPLYING WITH CHAPTER 7 NFPA 101	PERMITTED	PERMITTED		PERMITTED



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	VERTICAL ROLLING DOORS	COMPLYING WITH CHAPTER 7 NFPA 101	PERMITTED	PERMITTED	PERMITTED
	REVOLVING DOORS/POWERED DOORS	COMPLYING WITH CHAPTER 7 NFPA 101	PERMITTED	PERMITTED	PERMITTED
	SELF-CLOSING DEVICES	IN ALL DOORS REQUIRED TO BE NORMALLY KEPT CLOSED	REQUIRED	REQUIRED	REQUIRED
2	STAIRS	COMPLYING WITH CHAPTER 7 NFPA 101	REQUIRED	REQUIRED	REQUIRED
	STANDARD STAIRS	FEWER THAN 50 PERSON (CLEAR WIDTH)	915MM	915MM	915MM
		< 2000 PERSON (CLEAR WIDTH)	1120MM	1120MM	1120MM
		≥ 2000 PERSON (CLEAR WIDTH)	1420MM	1420MM	1420MM
	SPIRAL STAIRS	COMPLYING WITH CHAPTER 7 NFPA 101	PERMITTED	PERMITTED	PERMITTED
	CURVE STAIRS	COMPLYING WITH CHAPTER 7 NFPA 101	PERMITTED	PERMITTED	PERMITTED
	WINDERS	COMPLYING WITH CHAPTER 7 NFPA 101	NOT PERMITTED	NOT PERMITTED	NOT PERMITTED
	GUARDS AND HANDRAILS	COMPLYING WITH CHAPTER 7 NFPA 101	REQUIRED	REQUIRED	REQUIRED
	ENCLOSURE AND PROTECTION OF STAIRS	COMPLYING WITH CHAPTER 7 NFPA 101	REQUIRED	REQUIRED	REQUIRED
	ENCLOSURES	ALL INSIDE STAIR SERVING AS AN EXIT COMPONENT	REQUIRED	REQUIRED	REQUIRED
		DOORS FPR** ≤3 STOREYS / ≥3 STOREYS	1-HR FPR**FRP* / 1.5-HR FPR**	1-HR FPR**FRP* / 1.5-HR FPR**	1-HR FPR**FRP* / 1.5-HR FPR**
		ENCLOSURES FRR* ≤3 STOREYS / ≥3 STOREYS	1-HR FRR* / 2-HRS FRR*	1-HR FRR* / 2-HRS FRR*	1-HR FRR* / 2-HRS FRR*
	ENCLOSURE EXEMPTION	PENETRATING ONE FLOOR LEVEL OR SERVING MEZZANINE ONLY	PERMITTED	PERMITTED	PERMITTED
	EXPOSURES	WALLS AND OPENINGS WITHIN 3050MM HORIZONTALLY OF AN EXTERIOR STAIRWAY ENCLOSURE	1-HR FRR*	1-HR FRR*	1-HR FRR*
	USEABLE SPACE	WITHIN EXIT ENCLOSURE	NOT PERMITTED	NOT PERMITTED	NOT PERMITTED
	USEABLE SPACE	UNDER STAIRS IN ACCORDANCE WITH NFPA 101	PERMITTED	PERMITTED	PERMITTED
	STAIRWAY IDENTIFICATION	SERVING 3 OR MORE STOREYS	REQUIRED	REQUIRED	REQUIRED
	EXIT STAIR PATH MARKINGS	ALL STAIR COMPONENTS	REQUIRED	REQUIRED	REQUIRED
	PERIMETER DEMARCATION MARKING	COMPLYING WITH NFPA 101	REQUIRED	REQUIRED	REQUIRED
	LOCK, LATCHES & ALARM DEVICES	COMPLYING WITH NFPA 101	PERMITTED	PERMITTED	PERMITTED
	RE-ENTRY PROVISIONS	LOCKED STAIRS EXCEEDING 4 STOREYS	NOT REQUIRED	REQUIRED	REQUIRED
3	RAMPS	COMPLYING WITH CHAPTER 7 NFPA 101	PERMITTED	PERMITTED	PERMITTED
		AS SECONDARY EXIT FOR ONE (1) BASEMENT LEVEL	PERMITTED	PERMITTED	PERMITTED
4	ROOF ACCESS	BUILDING EQUAL OR MORE THAN 4 STOREYS (G+3) OR ROOFS 12M ABOVE GRADE PLANE	REQUIRED	REQUIRED	REQUIRED
		WHERE OPEN STAIR/S ARE PERMITTED AND PROVIDED IN LOW-RISE BUSINESS OCCUPANCY	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
		ONE AT EACH 9300M ² ROOF AREA OR FLAT ROOFS OR ROOF PITCH <3 IN 12	REQUIRED	REQUIRED	REQUIRED
	ROOF ACCESS COMPONENTS	VENTILATORS OPENINGS ON OPPOSING WALLS (EACH WALL OPENING IS AT LEAST 10% OF ONE SIDE OF THE WALL ENCLOSING THE ROOF ACCESS ON THE ROOF LEVEL.	REQUIRED	NOT APPLICABLE	NOT APPLICABLE
		STAIR ACCESS TO ROOF WITH OPERABLE DOORS	REQUIRED	REQUIRED	REQUIRED
5	SMOKE PROOF ENCLOSURES	FRR* FIRE RESISTANCE RATING			



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	STAIR ENCLOSURES	ALL INSIDE STAIR SERVING AS AN EXIT COMPONENT	REQUIRED	REQUIRED	REQUIRED
		OPEN STAIR PENETRATING ONE (1) FLOOR/LEVEL ONLY	PERMITTED	PERMITTED	PERMITTED
	FIRE FIGHTING LOBBY (F/F LOBBY)	IN EVERY FIRE LIFT PROVISIONS AT EVERY FLOOR LEVEL SERVED	REQUIRED IN EVERY PROVISIONS OF FIRE LIFT	REQUIRED IF BASEMENT LEVEL EXCEEDS 9M	REQUIRED TO 28M HEIGHT OR BASEMENT LEVEL EXCEEDS 9M
		ADJACENT AND ACCESSIBLE TO AN EXIT STAIRCASE	REQUIRED IN EVERY PROVISIONS OF FIRE LIFT	REQUIRED WHEN FIRE LIFT/S PROVIDED	REQUIRED
		SERVES AS A COMMON LOBBY FOR BOTH FIRE LIFT/S AND THE ADJACENT EXIT STAIRCASE	REQUIRED IN EVERY PROVISIONS OF FIRE LIFT	NOT REQUIRED	REQUIRED WITH EACH SIDE HAVING A LEAST DIMENSION OF 2.0M
		6M ² MINIMUM WORKING SPACE/AREA WITH NO SIDE LESS THAN 2.0M. DIMENSION	REQUIRED IN EVERY PROVISIONS OF FIRE LIFT	NOT REQUIRED	NOT REQUIRED IF EXITS COMPLIES WITH EXIT DISCHARGE REQUIREMENTS
		PROVISIONS AT THE LEVEL OF EXIT DISCHARGE	NOT REQUIRED IF EXITS COMPLIES WITH EXIT DISCHARGE REQ'TS	NOT REQUIRED IF EXITS COMPLIES WITH EXIT DISCHARGE REQUIREMENTS	NOT REQUIRED IF EXITS COMPLIES WITH EXIT DISCHARGE REQUIREMENTS
	FIRE FIGHTING LOBBY DOORS & WALL ENCLOSURES	1.5-HR FPR** FIRE PROTECTION RATING/ FRR* FIRE RESISTANCE RATING	REQUIRED IN EVERY PROVISIONS OF FIRE LIFT	REQUIRED	REQUIRED
	SMOKE-STOP LOBBY (S/S LOBBY)	HIGH-RISE BUILDINGS WITH HABITABLE HEIGHT HIGHER THAN 28 METERS	NOT APPLICABLE	NOT APPLICABLE	REQUIRED
		BASEMENT LEVEL/S EXCEED 9.0M METERS DEPTH	REQUIRED ON ALL FLOOR LEVELS	REQUIRED ON ALL FLOOR LEVELS	REQUIRED
		BUILDING EXCEEDS FIVE (5) STOREYS INCLUDING BASEMENTS & BELONGS TO AN ASSEMBLY OCCUPANCY REGARDLESS OF THE HABITABLE HEIGHT	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
		3M ² MIN. AREA (LEAST SIDE DIMENSION 1.8M)	WHEN SMOKE-STOP LOBBY IS/ARE REQUIRED	REQUIRED	REQUIRED
		PROVISIONS AT THE LEVEL OF EXIT DISCHARGE	NOT REQUIRED	NOT REQUIRED IF EXITS COMPLIES WITH EXIT DISCHARGE REQUIREMENTS	NOT REQUIRED IF EXITS COMPLIES WITH EXIT DISCHARGE REQUIREMENTS
	SMOKE-STOP LOBBY DOORS & WALL ENCLOSURES	1.5-HR FPR** FIRE PROTECTION RATING/ FRR* FIRE RESISTANCE RATING	REQUIRED IN EVERY PROVISIONS OF FIRE LIFT	REQUIRED	REQUIRED
6	HORIZONTAL EXITS	COMPLYING WITH CHAPTER 7 NFPA 101	PERMITTED	PERMITTED	PERMITTED
7	EXIT PASSAGEWAYS	ENCLOSURE & SEPARATION FIRE RESISTANCE RATING COMPLYING WITH CHAPTER 7 NFPA 101	REQUIRED	REQUIRED	REQUIRED
		MINIMUM WIDTH NOT LESS THAN ¾ OF THE WIDTH OF THE EXIT STAIR			
8	ESCALATORS & MOVING WALKS	AS PART OF THE REQUIRED MEANS OF EGRESS	NOT PERMITTED	NOT PERMITTED	NOT PERMITTED
9	FIRE ESCAPE STAIRS	COMPLYING WITH CHAPTER 7 NFPA 101	PERMITTED	PERMITTED	PERMITTED
10	FIRE ESCAPE LADDERS	COMPLYING WITH CHAPTER 7 NFPA 101	PERMITTED	PERMITTED	NOT PERMITTED
11	SLIDE ESCAPES	COMPLYING WITH CHAPTER 7 NFPA 101	PERMITTED	PERMITTED	PERMITTED
12	ALTERNATING TREAD DEVICES	COMPLYING WITH CHAPTER 7 NFPA 101	PERMITTED	PERMITTED	NOT PERMITTED
13	AREAS OF REFUGE	COMPLYING WITH CHAPTER 7 NFPA 101	REQUIRED	REQUIRED	REQUIRED
14	ELEVATORS	AS PART OF THE REQUIRED MEANS OF EGRESS	NOT PERMITTED	NOT PERMITTED	NOT PERMITTED
		AS SECOND MEANS OF EGRESS FROM A TOWER AND COMPLYING WITH ASME A17.1/CSA B44	NOT APPLICABLE	NOT APPLICABLE	PERMITTED
	ELEVATOR DOORS	OPENING INTO EXIT ENCLOSURES	NOT PERMITTED	NOT PERMITTED	NOT PERMITTED



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C	CAPACITY OF MEANS OF EGRESS			LOW-RISE OFFICES	MEDIUM-RISE OFFICES		HIGH RISE OFFICES		
					TYPE A	TYPE B			
1	OCCUPANT LOAD		NFPA 101 TABLE 7.3.1.2 OCCUPANT LOAD FACTORS	9.3M²/PERSON	9.3M²/PERSON		9.3M²/PERSON		
2	EGRESS CAPACITY		NFPA 101 TABLE 7.3.3.1 CAPACITY FACTORS	REQUIRED	REQUIRED		REQUIRED		
D	NUMBER OF EXITS								
1	SINGLE EXIT		IN MEZZANINES WITH EXIT TRAVEL WITHIN COMMON PATH LIMIT	PERMITTED	PERMITTED		PERMITTED		
			IN ANY SECTION WITH EXIT TRAVEL WITHIN COMMON PATH LIMIT						
			SINGLE TENANTS SPACE OR BUILDING WITH 2 OR FEWER STORIES IN HEIGHT	PERMITTED COMPLYING WITH ALL SINGLE EXIT CONDITIONS*	PERMITTED COMPLYING WITH ALL SINGLE EXIT CONDITIONS*		NOT PERMITTED		
			IN ANY LEVEL OR STOREY	PERMITTED WITH CONDITIONS*	PERMITTED WITH CONDITIONS*	NOT PERMITTED			
	CONDITIONS* (REQUIRES COMPLIANCE TO ALL STATED CONDITIONS)	1	OCCUPANT LOAD NOT EXCEEDING 50 OCCUPANTS PER FLOOR	REQUIRED	REQUIRED	NOT APPLICABLE 2 EXITS REQUIRED	NOT APPLICABLE 2 EXITS REQUIRED		
2		TRAVEL DISTANCE FROM THE MOST REMOTE AREA TO THE NEAREST EXIT ENCLOSURE DOES NOT EXCEED 23M.							
3		EXIT STAIRS ARE FULLY ENCLOSED							
		4	EXIT DISCHARGE DIRECT TO BUILDING EXTERNAL						
2	NOT LESS THAN 2 SEPARATE EXITS		50 - 500 OCCUPANTS	REQUIRED	REQUIRED		REQUIRED		
2	NOT LESS THAN 2 SEPARATE EXITS (CONTINUED)		ON EVERY STORY AND ACCESSIBLE FROM EVERY PART OF EVERY STORY	REQUIRED	REQUIRED		REQUIRED		
3	NOT LESS THAN 3 SEPARATE EXITS		EQUAL OR MORE THAN 500 OCCUPANTS	REQUIRED	REQUIRED		REQUIRED		
4	NOT LESS THAN 4 SEPARATE EXITS		EQUAL OR MORE THAN 1000 OCCUPANTS	REQUIRED	REQUIRED		REQUIRED		
E	ARRANGEMENT OF EXITS		(NS*-NOT SPRINKLERED / S**-SPRINKLERED)	FIRE PROTECTION		FIRE PROTECTION		FIRE PROTECTION	
				NS*	S**	NS* / S**	NS* / S**	NS*	S**
1	TRAVEL DISTANCE		NFPA 101 TABLE A.7.6	61M	91M	61M	91M	61M	91M
2	COMMON PATH LIMIT		NFPA 101 TABLE A.7.6	23M	30M	23M	30M	23M	30M
3	DEAD-END CORRIDOR		NFPA 101 TABLE A.7.6	6.1M	15M	6.1M	15M	6.1M	15M
4	EXIT DISCHARGE								
	EXTERIOR DISCHARGE (DIRECT TO BUILDING EXTERNAL)		COMPLYING WITH NFPA 101	REQUIRED	REQUIRED		REQUIRED		
	THROUGH AREAS ON LEVEL OF EXIT DISCHARGE		MAXIMUM 10M TRAVEL DISTANCE TO BUILDING EXTERNAL	PERMITTED	PERMITTED	NOT PERMITTED	NOT PERMITTED		
			50% OF RQUIRED NUMBER OF EXITS & 50% OF REQUIRED EXIT CAPACITY IN BUILDINGS PROTECTED THROUGHOUT WITH SPRINKLER SYSTEM	PERMITTED	PERMITTED		PERMITTED		
5	EXTERIOR WAYS OF EXIT		COMPLYING WITH NFPA 101	PERMITTED	PERMITTED		PERMITTED		
6	ACCESSIBLE MEANS OF EGRESS		EXIT PROVISIONS FOR PEOPLE WITH SEVERE MOBILITY IMPAIRMENT (NOT LESS THAN 2 EXITS REQUIRED)	REQUIRED	REQUIRED		2 EXITS REQUIRED		
7	ILLUMINATION OF MEANS OF EGRESS		COMPLYING WITH CHAPTER 7 NFPA 101	REQUIRED	REQUIRED		REQUIRED		



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8	EMERGENCY LIGHTING	THE BUILDING IS THREE (3) OR MORE STORIES IN HEIGHT OCCUPANCY SUBJECT TO 50 OR MORE OCCUPANTS ABOVE OR BELOW THE LEVEL OF EXIT DISCHARGE	REQUIRED	REQUIRED	REQUIRED
		OCCUPANCY SUBJECT TO 300 OR MORE TOTAL OCCUPANTS			
9	MARKINGS OF MEANS OF EGRESS	COMPLYING WITH CHAPTER 7 NFPA 101			
F	SPECIAL MEANS OF EGRESS PROVISIONS		LOW-RISE OFFICES	MEDIUM-RISE OFFICES TYPE A TYPE B	HIGH RISE OFFICES
1	FIREMEN ACCESS PANELS	HABITABLE HEIGHT EXCEEDING 10M	REQUIRED	REQUIRED	REQUIRED
2	REFUGE FLOORS	BUILDING EXCEEDING 30 STORIES	NOT APPLICABLE	NOT APPLICABLE	REQUIRED
3	ELEVATORS FOR OCCUPANT CONTROLLED EVACUATION PRIOR TO PHASE I EMERGENCY RECALL OPERATIONS	COMPLYING WITH CHAPTER 7 NFPA 101	PERMITTED	PERMITTED	PERMITTED
V	INTERIOR FINISH CONTENTS AND FURNISHING				
A	INTERIOR FINISH	COMPLYING WITH CHAPTER 10 OF NFPA 101			
1	INTERIOR WALL & CEILING FINISHES	CLASS A OR CLASS B IN EXITS & EXIT ACCESS CORRIDORS	REQUIRED	REQUIRED	REQUIRED
		CLASS A OR CLASS B OR CLASS IN OTHER AREAS	REQUIRED	REQUIRED	REQUIRED
2	INTERIOR FLOOR FINISHES	CLASS I OR CLASS II IN EXIT ENCLOSURE	REQUIRED	REQUIRED	REQUIRED
VI	FEATURES OF FIRE PROTECTION (NFPA 5000 TABLES 7.2.1.1, 7.3.2.1, 7.3.5 (a), (b), 7.3.5.5, 7.4.1)				
A	CONSTRUCTION	COMPLYING WITH CHAPTER 7 & 8 OF NFPA 5000			
1	CONSTRUCTION (NON-COMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIALS)	TYPE I OR TYPE II	HOURLY RATINGS BASED ON NFPA 5000 HEIGHT & AREA REQUIREMENTS	HOURLY RATINGS BASED ON NFPA 5000 HEIGHT & AREA REQUIREMENTS	HOURLY RATINGS BASED ON NFPA 5000 HEIGHT & AREA REQUIREMENTS
		EXTERIOR BEARING WALLS			
		FRAMING, COLUMNS, BEAMS, GIRDERS, TRUSSES			
		FLOOR CONSTRUCTION			
B	COMPARTMENTATION / SUBDIVISION OF BUILDING SPACES	COMPLYING WITH NFPA 101 & NFPA 5000	REQUIRED	REQUIRED	REQUIRED
1	FIRE BARRIES	COMPLYING WITH NFPA 101 & NFPA 5000	REQUIRED	REQUIRED	REQUIRED
2	SEPARATION FROM OTHER OCCUPANCIES	COMPLYING WITH NFPA 101 TABLE 6.1.14.4.1 (a), (b)	REQUIRED	REQUIRED	REQUIRED
3	CORRIDORS RATED SEPARATION	REQUIRED SEPARATION	1-HR FRR*	1-HR FRR*	1-HR FRR*
	REQUIRED SEPARATION EXEMPTION (APPLIES TO ANY OF THE FOLLOWING)	1 EXITS ARE AVAILABLE FROM AN OPEN FLOOR AREA 2 WITHIN A SPACE OCCUPIED BY A SINGLE TENANT 3 FULLY PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
4	SMOKE PARTITIONS/ SMOKE BARRIERS	COMPLYING WITH NFPA 101 & NFPA 5000	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
C	VERTICAL OPENINGS PROTECTION	PROTECTION COMPLYING WITH NFPA CODES	REQUIRED	REQUIRED	REQUIRED
1	COMMUNICATING SPACES	COMPLYING WITH CHAPTER 8 NFPA 101	PERMITTED	PERMITTED	PERMITTED
2	ATRIUMS	COMPLYING WITH CHAPTER 8 NFPA 101	PERMITTED	PERMITTED	PERMITTED
3	CONVENIENCE OPENINGS	COMPLYING WITH CHAPTER 8 NFPA 101	PERMITTED	PERMITTED	PERMITTED
4	SHAFTS	COMPLYING WITH CHAPTER 8 NFPA 101	PERMITTED	PERMITTED	PERMITTED
		COMPLYING WITH CHAPTER 8 NFPA 101	PERMITTED	PERMITTED	PERMITTED
5	MEZZANINES	AGGREGATE FLOOR AREA NOT MORE THAN ONE-THIRD OF THE ROOM OR SPACE IN WHICH THE LEVEL IS LOCATED	REQUIRED	REQUIRED	REQUIRED



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6	CONCEALED SPACES & DRAFSTOPS	COMPLYING WITH CHAPTER 8 NFPA 101	REQUIRED	REQUIRED	REQUIRED
	EXTERIOR & INTERIOR WALL & PARTITION	FIRESTOPPED AT EACH FLOOR LEVEL, TOP STORY CEILING LEVEL & AT THE LEVEL OF SUPPORT FOR ROOFS	REQUIRED	REQUIRED	REQUIRED
	UNOCCUPIED ATTIC SPACES	DRAFSTOP INTO AREAS NOT EXCEEDING 280M ²	REQUIRED	REQUIRED	REQUIRED
	CONCEALED SPACES (CEILINGS & FLOORS)	DRAFSTOP INTO AREAS NOT EXCEEDING 93M ²	REQUIRED	REQUIRED	REQUIRED
	CONCEALED SPACES (FLOORS & ROOFS)	DRAFSTOP INTO AREAS NOT EXCEEDING 280M ²	REQUIRED	REQUIRED	REQUIRED
VII	FIRE PROTECTION				
A	DETECTION ALARM AND COMMUNICATION SYSTEMS		LOW-RISE OFFICES	MEDIUM-RISE OFFICES TYPE A TYPE B	HIGH RISE OFFICES
1	FIRE ALARM SYSTEM		REQUIRED	REQUIRED	REQUIRED
B	EXTINGUISHING REQUIREMENTS	COMPLIANCE FROM INDIVIDUAL CODES & STANDARDS	REQUIRED	REQUIRED	REQUIRED
1	PORTABLE FIRE EXTINGUISHERS	TYPE AND RATING IN ACCORDANCE WITH NFPA 10	REQUIRED	REQUIRED	REQUIRED
2	FIRE BLANKETS	IN KITCHEN OR PANTRY	REQUIRED	REQUIRED	REQUIRED
3	STANDPIPE SYSTEM	BUILDING EXCEEDING 9M IN HEIGHT	REQUIRED	REQUIRED	REQUIRED
4	FIRE HOSE REELS	25MM DIAMETER HOSE	NOT REQUIRED	REQUIRED	REQUIRED
5	AUTOMATIC SPRINKLER SYSTEM	THROUGHOUT PROTECTION	NOT REQUIRED	NOT REQUIRED	REQUIRED
		PROVIDED IN LIEU OF THE REQUIRED DRAFSTOPS IN CONCEALED SPACES	NOT REQUIRED	NOT REQUIRED	PERMITTED
		ONE BASEMENT LEVEL USED AS CARPARK ONLY AND NOT EXCEEDING 1115 SQ.M.	NOT REQUIRED	NOT REQUIRED	REQUIRED
		ONE BASEMENT LEVEL USED AS MIXED OCCUPANCY	REQUIRED	REQUIRED	REQUIRED
		MORE THAN ONE BASEMENT LEVEL	REQUIRED	REQUIRED	REQUIRED
6	OTHER EXTINGUISHING EQUIPMENT	COMPLIANCE FROM INDIVIDUAL CODES & STANDARDS	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
VIII	BUILDING SERVICES PROTECTION (ASS* AUTOMATIC SUPPRESSION SYSTEM)				
A	BUILDING UTILITIES	COMPLYING WITH CHAPTER 9 NFPA 101			
1	GAS EQUIPMENT & RELATED PIPING	PROTECTION AS PER NFPA 54 & NFPA 58	REQUIRED	REQUIRED	REQUIRED
2	ELECTRICAL SYSTEMS	COMPLYING WITH NFPA 70	REQUIRED	REQUIRED	REQUIRED
	ELECTRICAL ROOMS	AUTOMATIC SUPPRESSION SYSTEM or 2-HRS ENCLOSURE	REQUIRED	REQUIRED	REQUIRED
	SUBSTATIONS & SWITCHGEARS	ATTACHED TO OCCUPIED BUILDINGS REQUIRED PROTECTION	3-HRS FRR* or ASS*	3-HRS FRR* or ASS*	3-HRS FRR* or ASS*
		STANDALONE TRANSFORMER VAULT REQUIRED PROTECTION	3-HRS FRR* or 2-HRS FRR* with ASS	3-HRS FRR* or 2-HRS FRR* with ASS	3-HRS FRR* or 2-HRS FRR* with ASS
		EXPLOSION PROTECTION	ASS* & 2-HRS FRR* ENCLOSURE	ASS* & 2-HRS FRR* ENCLOSURE	ASS* & 2-HRS FRR* ENCLOSURE
3	COMMERCIAL COOKING EQUIPMENT	COMPLYING WITH NFPA 96	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
	KITCHEN/PANTRY	ENCLOSURE FRR*	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
	COOKING EQUIPMENT	EQUIPMENT USED ONLY FOR FOOD WARMING	PERMITTED	PERMITTED	PERMITTED
4	ELEVATORS, ESCALATORS & CONVEYORS	COMPLYING WITH ASME A17.1/CSA B44	REQUIRED	REQUIRED	REQUIRED
	FIRE FIGHTERS' EMERGENCY OPERATION	COMPLYING WITH NFPA 101.9 & ASME A17.1/CSA B44	NOT REQUIRED	NOT REQUIRED	REQUIRED
B	RUBBISH CHUTE, INCINERATORS & LAUNDRY CHUTES	COMPLYING WITH NFPA 82	REQUIRED	REQUIRED	REQUIRED



**FIRE PREVENTION DEPARTMENT
GENERAL DIRECTORATE OF CIVIL DEFENCE
MINISTRY OF INTERIOR, STATE OF QATAR**

BUILDING PLAN - FIRE SAFETY GUIDE

	ENCLOSURES	TRAVERSES EQUAL OR LESS THAN 3 STOREYS	1-HR FRR*	1-HR FRR*	1-HR FRR*
		TRAVERSES MORE THAN 3 STOREYS	2-HRS FRR*	2-HRS FRR*	2-HRS FRR*
	OPENING PROTECTIVE	TRAVERSES EQUAL OR LESS THAN 3 STOREYS	1-HR FPR**	1-HR FPR**	1-HR FPR**
		TRAVERSES MORE THAN 3 STOREYS	1.5-HR FPR**	1.5-HR FPR**	1.5-HR FPR**
C	EMERGENCY POWER SUPPLY SYSTEM	COMPLYING WITH NFPA 110	NOT REQUIRED	NOT REQUIRED	REQUIRED
1	GENERATORS	ENCLOSURE	1-HR FRR*	1-HR FRR*	1-HR FRR*
D	FIRE PUMP ROOM	COMPLYING WITH NFPA 20	REQUIRED	REQUIRED	REQUIRED
	ENCLOSURES	MORE THAN 15.3 M FROM ANY BUILDING	1-HR FRR*	1-HR FRR*	1-HR FRR*
		WITHIN 15.3M OR ATTACHED TO BUILDINGS	2-HRS FRR*	2-HRS FRR*	2-HRS FRR*
		THROUGHOUT SPRINKLER (BUILDING/S & PUMP ROOM)	1-HR FRR*	1-HR FRR*	1-HR FRR*
	DIRECT SAFE ACCESS	EXTERNAL ACCESS WITHIN THE LEVEL OF DISCHARGE	REQUIRED	REQUIRED	REQUIRED
		WITHIN 3M FROM ANY EXIT THAT COMPLIES WITH DIRECT DISCHARGE REQUIREMENTS	PERMITTED	PERMITTED	PERMITTED
	ACCESS COMPONENT (UNDERGROUND LOCATION)	STANDARD STAIR (OF ANY NON-COMBUSTIBLE MATERIAL)	REQUIRED	REQUIRED	REQUIRED
		CAT STEEL LADDER	NOT PERMITTED	NOT PERMITTED	NOT PERMITTED
E	FIRE WATER TANKS	COMPLYING WITH NFPA 22	REQUIRED	REQUIRED	REQUIRED
	WATER TANK MATERIALS	NON-COMBUSTIBLE MATERIAL	REQUIRED	REQUIRED	REQUIRED
	DESIGN/COMPARTMENTATION	TWO (2) COMPARTMENTS	REQUIRED	REQUIRED	REQUIRED
F	SMOKE CONTROL / EMERGENCY VENTILATION	COMPLYING WITH NFPA 92 & NFPA 204	NOT REQUIRED	REQUIRED	REQUIRED
1	VENTILATION BY ANY OF THE FOLLOWING: 1.1. NATURAL VENTILATION; 1.2. MECHANICAL VENTILATION BY POSITIVE VENTILATION (PRESSURIZATION) SYSTEM	EXIT STAIRCASES CONNECTS FIVE (5) STOREYS (LEVELS) INCLUDING THE BASEMENTS	NOT APPLICABLE	REQUIRED	REQUIRED
		AND/OR WHEN SMOKE STOP &/OR FIRE FIGHTING LOBBIES ARE REQUIRED	NOT APPLICABLE	NOT APPLICABLE	REQUIRED
2	VENTILATION / SMOKE CONTROL SYSTEM BY ANY OF THE FOLLOWING: 1.1 NATURAL VENTILATION; 1.2 MECHANICAL VENTILATION & SMOKE CONTROL SYSTEM	BASEMENT LEVEL/S WITH FLOOR AREA (FA) EXCEEDING 500 SQ.M.	NOT APPLICABLE	REQUIRED	REQUIRED
		VERTICAL OPENINGS, ATRIUMS & OTHER LARGE VOLUME OF SPACES	REQUIRED	REQUIRED	REQUIRED
G	AIR-CONDITIONING & VENTILATION SYSTEM	COMPLYING WITH NFPA 90A & NFPA 90B AND OTHER RELEVANT, APPLICABLE NFPA CODES & STANDARDS	REQUIRED	REQUIRED	REQUIRED

Note:

*This Fire Safety Guide is prepared to determine the minimum required Fire Safety provisions for each Occupancy Type as referenced from GDCD's adopted National Fire Protection Association (NFPA) Codes & Standards and the Qatar Fire Safety Standards (QFSS).

For further guidance, the user is referred to the NFPA Codes and Standards and the Qatar Fire Safety Standards (QFSS).

****Occupancy Classification: Unless both the height and area requirements / criteria are met, the next higher classification / category SHALL apply.**

FPR-FIRE RESISTANCE RATING *FPR**-FIRE PROTECTION RATING *ASS-AUMATIC SPRINKLER SYSTEM *SS-SMOKE-STOP LOBBY *FF-FIRE FIGHTING LOBBY