



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

**BUILDING PLAN - FIRE SAFETY GUIDE**

**DORMITORY AND ACCOMMODATIONS BUILDINGS**

I	APPLICATIONS		A BUILDING OR GROUP OF BUILDINGS THAT PROVIDES SLEEPING ACCOMMODATIONS ON A TRANSIENT OR PERMANENT BASIS WITH OR WITHOUT MEALS BUT WITHOUT SEPARATE COOKING FACILITIES FOR INDIVIDUAL OCCUPANTS		
	COLLEGE DORMITORIES / STUDENT HOUSING / MILITARY BARRACKS / LABOR/WORKERS & STAFF HOUSING				
II	<b>OCCUPANCY CLASSIFICATION**</b>		BUILDING HEIGHT REQUIREMENTS	BUILDING AREA REQUIREMENTS	
A	LOW-RISE DORMITORY & ACCOMMODATIONS		≤ 15M	≤ 500M <sup>2</sup>	
B	MEDIUM-RISE DORMITORY & ACCOMMODATIONS		> 15M TO ≤ 28M	> 500M <sup>2</sup> - 1000M <sup>2</sup>	
C	HIGH-RISE DORMITORY & ACCOMMODATIONS		> 28M	> 1000M <sup>2</sup>	
III	BUILDING AND SITE ACCESS FOR FIRE FIGHTING & RESCUE				
	FIRE SAFETY PROVISIONS	MINIMUM REQUIREMENTS	LOW-RISE	MEDIUM-RISE	HIGH RISE
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 WHEN BUILDING HABITABLE HEIGHT EXCEEDS 10M	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. LOCATION: INSTEAD OF A DEDICATED FIRE RATED ROOM, LOBBIES OR OTHER SPACES ADJACENT TO THE MAIN ENTRANCE OF THE BUILDING WILL BE PERMITTED	REQUIRED
		9M <sup>2</sup> 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					
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			



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E	FIRE LIFT (CONTINUED)	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	REQUIRED IF EXCEEDS 9M BELOW THE LEVEL OF EXIT DISCHARGE	REQUIRED IF EXCEEDS 9M BELOW THE LEVEL OF EXIT DISCHARGE	REQUIRED
		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			
IV	MEANS OF EGRESS				
A	MEANS OF EGRESS GENERAL REQUIREMENTS		LOW-RISE	MEDIUM-RISE	HIGH RISE
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 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	MAINTAINED FREE OF ALL OBSTRUCTION & 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	810MM	810MM
		HORIZONTAL SLIDING DOORS	COMPLYING WITH CHAPTER 7 NFPA 101	NOT PERMITTED ACROSS CORRIDORS	NOT PERMITTED ACROSS CORRIDORS
	VERTICAL ROLLING DOORS	COMPLYING WITH CHAPTER 7 NFPA 101	NOT PERMITTED	NOT PERMITTED	NOT 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



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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	NOT PERMITTED	NOT PERMITTED
CURVE STAIRS	COMPLYING WITH CHAPTER 7 NFPA 101	NOT PERMITTED	NOT PERMITTED	NOT 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 FRR** ≤3 STOREYS / ≥3 STOREYS	1-HR FRR** / 1.5-HR FRR**	1-HR FRR** / 1.5-HR FRR**	1-HR FRR** / 1.5-HR FRR**
	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 1 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
	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	NOT PERMITTED	NOT 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	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	ONE AT EACH 9300M <sup>2</sup> ROOF AREA OR FLAT ROOFS OR ROOF PITCH <3 IN 12	NOT APPLICABLE	NOT 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)			
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	REQUIRED IN EVERY PROVISIONS OF FIRE LIFT	REQUIRED IN EVERY PROVISIONS OF FIRE LIFT	REQUIRED
	ADJACENT AND ACCESSIBLE TO AN EXIT STAIRCASE			
	SERVES AS A COMMON LOBBY FOR BOTH FIRE LIFT AND			



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		THE ADJACENT EXIT STAIRCASE			
		6M <sup>2</sup> MINIMUM WORKING SPACE/AREA (LEAST SIDE DIMENSION 2.0M)			
		PROVISIONS AT THE LEVEL OF EXIT DISCHARGE			
	S/S & F/F LOBBY DOORS & WALL ENCLOSURES	1.5-HR FPR** FIRE PROTECTION RATING/ FRR* FIRE RESISTANCE RATING	NOT REQUIRED	REQUIRED	REQUIRED
	SMOKE-STOP LOBBY (S/S LOBBY)	HIGH-RISE BUILDINGS WITH HABITABLE HEIGHT HIGHER THAN 28 METERS	NOT APPLICABLE	NOT APPLICABLE	REQUIRED ON ALL FLOOR LEVELS
		BASEMENT LEVEL/S EXCEED 9.0M METERS DEPTH	REQUIRED ON ALL FLOOR LEVELS	REQUIRED ON ALL FLOOR LEVELS	REQUIRED
		BUILDING TRAVERSES MORE THAN FIVE (5) FLOOR LEVELS INCLUDING BASEMENT/S AND BELONGS TO A PLACE OF PUBLIC RESORT (ASSEMBLY & HEALTHCARE OCCUPANCY) REGARDLESS OF THE HABITABLE HEIGHT.	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
		3M <sup>2</sup> MIN. AREA (LEAST SIDE DIMENSION 1.8M)	NOT APPLICABLE	NOT APPLICABLE	REQUIRED
		PROVISIONS AT THE LEVEL OF EXIT DISCHARGE	NOT APPLICABLE	NOT APPLICABLE	NOT REQUIRED IF EXITS COMPLIES WITH EXIT DISCHARGE REQUIREMENTS
	S/S & F/F LOBBY DOORS & WALL ENCLOSURES	1.5-HR FPR** FIRE PROTECTION RATING/ FRR* FIRE RESISTANCE RATING	NOT REQUIRED	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 1-HR FRR*	REQUIRED 1-HR FRR*	REQUIRED 1-HR FRR*
		MIN. WIDTH NOT LESS THAN 2/3 OF THE EXIT STAIR WIDTH	REQUIRED	REQUIRED	REQUIRED
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
	ELEVATOR DOORS	OPENING INTO EXIT ENCLOSURES	NOT PERMITTED	NOT PERMITTED	NOT PERMITTED
C	CAPACITY OF MEANS OF EGRESS		LOW-RISE	MEDIUM-RISE	HIGH RISE
1	OCCUPANT LOAD	NFPA 101 TABLE 7.3.1.2 OCCUPANT LOAD FACTORS	18.6M <sup>2</sup> /PERSON	18.6M <sup>2</sup> /PERSON	18.6M <sup>2</sup> /PERSON
2	EGRESS CAPACITY	NFPA 101 TABLE 7.3.3.1 CAPACITY FACTORS	REQUIRED	REQUIRED	REQUIRED
D	NUMBER OF EXITS				
1	SINGLE EXIT	SERVING ALL FLOOR LEVELS	PERMITTED COMPLYING WITH ALL SINGLE EXIT CONDITIONS*	NOT PERMITTED	NOT PERMITTED
		IN MEZZANINES WITH EXIT TRAVEL WITHIN COMMON PATH LIMIT	PERMITTED	PERMITTED	PERMITTED
		IN ANY SECTION WITH EXIT TRAVEL WITHIN COMMON PATH LIMIT	PERMITTED	PERMITTED	PERMITTED



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SINGLE EXIT (CONTINUED)	SLEEPING ROOMS HAS AN EXIT DOOR OPENING DIRECTLY TO A STREET OR YARD AT FINISHED GROUND LEVEL		PERMITTED	PERMITTED	NOT APPLICABLE				
	SLEEPING ROOMS HAS DIRECT ACCESS TO AN OUTSIDE STAIR AND SERVES A MAX. OF 2 UNITS BOTH OF WHICH ARE LOCATED ON THE SAME FLOOR LEVEL		PERMITTED	PERMITTED	PERMITTED				
	SLEEPING ROOMS HAS DIRECT ACCESS TO AN INSIDE STAIR SERVING ONLY THAT UNIT AND SEPARATED FROM OTHER PARTS OF THE BLDG. WITH 1-HR FIRE BARRIERS		PERMITTED	PERMITTED	PERMITTED				
CONDITIONS* PERMITTING SINGLE EXIT PROVISIONS (REQUIRES COMPLIANCE TO ALL STATED CONDITIONS)	1	FLOOR AREA IS EQUAL OR LESS THAN 500M <sup>2</sup>	REQUIRED	PERMITTED LABOR ACCOMMODATIONS ONLY	NOT APPLICABLE				
	2	TRAVEL DISTANCE FROM THE ENTRANCE DOOR OF ANY SLEEPING ROOM TO AN EXIT DOES NOT EXCEED 10.7M.	REQUIRED	REQUIRED	NOT APPLICABLE				
	3	EXIT STAIRWAY IS COMPLETELY ENCLOSED OR SEPARATED FROM THE REST OF THE BUILDING	REQUIRED	REQUIRED	NOT APPLICABLE				
	4	STAIRWAY SERVE ONLY 1 BASEMENT LEVEL	REQUIRED	PERMITTED	NOT APPLICABLE				
	5	ALL OPENINGS BETWEEN THE EXIT ENCLOSURE AND THE BUILDING ARE PROTECTED WITH SELF-CLOSING DOOR ASSEMBLIES OF 1-HOUR FRR*	REQUIRED	REQUIRED	NOT APPLICABLE				
	6	ALL CORRIDORS SERVING AS ACCESS TO EXITS HAVE A MINIMUM OF 1-HOUR FRR*	REQUIRED	REQUIRED	NOT APPLICABLE				
	7	HORIZONTAL AND VERTICAL SEPARATION OF 1.0-HR FRR* IS PROVIDED BETWEEN GUEST ROOMS/SUITES	REQUIRED	REQUIRED	NOT APPLICABLE				
	8	WITH ROOF ACCESS AND/OR PROVIDED WITH VENTILATORS OPENINGS ON OPPOSING WALLS	REQUIRED	NOT APPLICABLE	NOT APPLICABLE				
	9	EXIT STAIR THAT TRAVERSES MORE THAN 5 STORIES INCLUDING BASEMENTS ARE PRESSURIZED.	NOT APPLICABLE	REQUIRED	REQUIRED				
	10	THE BUILDING IS PROTECTED THROUGHOUT BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM	NOT REQUIRED	REQUIRED	NOT APPLICABLE				
2	NOT LESS THAN 2 SEPARATE EXITS / EXIT ACCESS DOORS	SLEEPING ROOMS EXCEEDING 185M <sup>2</sup>	REQUIRED	REQUIRED	REQUIRED				
		50 - 500 OCCUPANTS	REQUIRED	REQUIRED	REQUIRED				
		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) NFPA 101 TABLE A.7.6	LOW-RISE		MEDIUM-RISE		HIGH RISE		
			NS*	S**	NS* / S**	NS* / S**	NS*	S**	
1	TRAVEL DISTANCE	NFPA 101 TABLE A.7.6	TOTAL TRAVEL DISTANCES PERMITTED	53M	99M	53M	99M	53M	99M
			WITHIN A SLEEPING ROOM TO A CORRIDOR DOOR	23M	38M	23M	38M	23M	38M
			FROM THE CORRIDOR DOOR OF ANY SLEEPING ROOM TO THE NEAREST EXIT	30M	61M	30M	61M	30M	61M



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			FROM A SLEEPING ROOM ENTRANCE DOOR TO THE NEAREST EXIT FOR EXTERIOR WAYS OF EXIT ACCESS	61M	61M	61M	61M	61M	61M
2	COMMON PATH LIMIT	NFPA 101 TABLE A.7.6		10.7M	15M	10.7M	15M	10.7M	15M
3	DEAD-END CORRIDOR	NFPA 101 TABLE A.7.6		10.7M	15M	10.7M	15M	10.7M	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		PERMITTED	
		50% OF THE REQUIRED NUMBER OF EXITS & 50% OF THE REQUIRED EXIT CAPACITY (SPRINKLER PROTECTED)		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		REQUIRED	
7	ILLUMINATION OF MEANS OF EGRESS	COMPLYING WITH CHAPTER 7 NFPA 101		REQUIRED		REQUIRED		REQUIRED	
8	EMERGENCY LIGHTING	COMPLYING WITH CHAPTER 7 NFPA 101		REQUIRED		REQUIRED		REQUIRED	
9	MARKINGS OF MEANS OF EGRESS	COMPLYING WITH CHAPTER 7 NFPA 101		REQUIRED		REQUIRED		REQUIRED	
F	SPECIAL MEANS OF EGRESS PROVISIONS			LOW-RISE		MEDIUM-RISE		HIGH RISE	
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		REQUIRED		REQUIRED		REQUIRED	
1	INTERIOR WALL & CEILING FINISHES	EXIT ENCLOSURES		CLASS A		CLASS A		CLASS A	
		LOBBIES & CORRIDORS		CLASS A OR CLASS B		CLASS A OR CLASS B		CLASS A OR CLASS B	
		OTHER SPACES		CLASS A, CLASS B OR CLASS C		CLASS A, CLASS B OR CLASS C		CLASS A, CLASS B OR CLASS C	
2	INTERIOR FLOOR FINISHES	EXIT ENCLOSURES, EXIT ACCESS CORRIDORS AND SPACES NOT SEPARATED FROM THEM		CLASS II		CLASS II		CLASS II	
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		REQUIRED		REQUIRED		REQUIRED	
1	CONSTRUCTION (NON-COMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIALS)	TYPE I OR TYPE II	EXTERIOR BEARING WALLS	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			
			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	
	SEPARATION BETWEEN SLEEPING ROOMS	SPRINKLERED		0.5-HR FRR*		0.5-HR FRR*		0.5-HR FRR*	
2	SEPARATION FROM OTHER OCCUPANCIES	COMPLYING WITH NFPA 101 TABLE 6.1.14.4.1 (a), (b)		REQUIRED		REQUIRED		REQUIRED	



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3	<b>CORRIDORS RATED SEPARATION</b>	COMPLYING WITH NFPA 101.28 & 29	REQUIRED	REQUIRED	REQUIRED
	<b>REQUIRED SEPARATION</b>	SPRINKLERED (S) / NOT SPRINKLERED (NS)	0.5-HR FRR* / 1-HR FRR*	0.5-HR FRR* / 1-HR FRR*	0.5-HR FRR*
	<b>DOORS</b>	OPENING ONTO EXIT ACCESS CORRIDORS (S/NS)	20-MINS FPR**/ 45-MINS FPR**	20-MIN FPR**/ 45-MINS FPR**	20-MIN FPR**
4	<b>SMOKE PARTITIONS</b>	COMPLYING WITH NFPA 101 & NFPA 5000	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
5	<b>SMOKE BARRIERS</b>	COMPLYING WITH NFPA 101 & NFPA 5000	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
<b>C</b>	<b>VERTICAL OPENINGS PROTECTION</b>	PROTECTION COMPLYING WITH NFPA CODES	REQUIRED	REQUIRED	REQUIRED
1	<b>COMMUNICATING SPACES</b>	COMPLYING WITH CHAPTER 8 NFPA 101	PERMITTED	PERMITTED	PERMITTED
2	<b>ATRIUMS</b>	COMPLYING WITH CHAPTER 8 NFPA 101	PERMITTED	PERMITTED	PERMITTED
3	<b>CONVENIENCE OPENINGS</b>	COMPLYING WITH CHAPTER 8 NFPA 101	PERMITTED	PERMITTED	PERMITTED
4	<b>SHAFTS</b>	COMPLYING WITH CHAPTER 8 NFPA 101	PERMITTED	PERMITTED	PERMITTED
5	<b>MEZZANINES</b>	COMPLYING WITH CHAPTER 8 NFPA 101	PERMITTED	PERMITTED	PERMITTED
6	<b>CONCEALED SPACES &amp; DRAFSTOPS</b>	COMPLYING WITH CHAPTER 8 NFPA 101	REQUIRED	REQUIRED	REQUIRED
	<b>EXTERIOR &amp; INTERIOR WALL &amp; PARTITION</b>	FIRESTOPPED AT EACH FLOOR LEVEL, TOP STORY CEILING LEVEL & AT THE LEVEL OF SUPPORT FOR ROOFS	REQUIRED	REQUIRED	REQUIRED
	<b>UNOCCUPIED ATTIC SPACES</b>	DRAFSTOP INTO AREAS NOT EXCEEDING 280M <sup>2</sup>	REQUIRED	REQUIRED	REQUIRED
	<b>CONCEALED SPACES (CEILINGS &amp; FLOORS)</b>	DRAFSTOP INTO AREAS NOT EXCEEDING 93M <sup>2</sup>	REQUIRED	REQUIRED	REQUIRED
	<b>CONCEALED SPACES (FLOORS &amp; ROOFS)</b>	DRAFSTOP INTO AREAS NOT EXCEEDING 280M <sup>2</sup>	REQUIRED	REQUIRED	REQUIRED
<b>D</b>	<b>HAZARDOUS AREA PROTECTION</b>	COMPLYING WITH TABLE 28.3.2.2.2 OF NFPA 101	REQUIRED	REQUIRED	REQUIRED
1	<b>BOILER ROOM &amp; FUEL-FIRE HEATER ROOM SERVING MORE THAN A SINGLE SLEEPING ROOM</b>	SEPARATION AND PROTECTION REQUIRED	2-HRS FRR* AND SPRINKLERS	1-HR FRR* AND SPRINKLERS	1-HR FRR* AND SPRINKLERS
2	<b>EMPLOYEE LOCKER ROOMS</b>	SEPARATION AND PROTECTION REQUIRED	1-HR FRR* OR SPRINKLERS	1-HR FRR* OR SPRINKLERS	1-HR FRR* OR SPRINKLERS
3	<b>BULK LAUNDRIES</b>	SEPARATION AND PROTECTION REQUIRED	1-HR FRR* AND SPRINKLERS	1-HR FRR* AND SPRINKLERS	1-HR FRR* AND SPRINKLERS
4	<b>MAINTENANCE SHOPS</b>	SEPARATION AND PROTECTION REQUIRED	1-HR FRR* AND SPRINKLERS	1-HR FRR* AND SPRINKLERS	1-HR FRR* AND SPRINKLERS
5	<b>STORAGE ROOMS</b>	SEPARATION AND PROTECTION REQUIRED	1-HR FRR* OR SPRINKLERS	1-HR FRR* OR SPRINKLERS	1-HR FRR* OR SPRINKLERS
6	<b>TRASH COLLECTION ROOMS</b>	SEPARATION AND PROTECTION REQUIRED	1-HR FRR* AND SPRINKLERS	1-HR FRR* AND SPRINKLERS	1-HR FRR* AND SPRINKLERS
<b>VII</b>	<b>FIRE PROTECTION (FRR* FIRE RESISTANCE RATING / FPR** FIRE PROTECTION RATING)</b>				
<b>A</b>	<b>DETECTION ALARM AND COMMUNICATION SYSTEMS</b>		<b>LOW-RISE</b>	<b>MEDIUM-RISE</b>	<b>HIGH RISE</b>
1	<b>FIRE ALARM SYSTEM</b>	COMPLYING WITH NFPA 72	REQUIRED	REQUIRED	REQUIRED
<b>B</b>	<b>EXTINGUISHING REQUIREMENTS</b>	COMPLYING TO INDIVIDUAL CODES & STANDARDS	REQUIRED	REQUIRED	REQUIRED
1	<b>PORTABLE FIRE EXTINGUISHERS</b>	TYPE AND RATING IN ACCORDANCE WITH NFPA 10	REQUIRED	REQUIRED	REQUIRED
2	<b>FIRE BLANKETS</b>	IN KITCHEN OR PANTRY	REQUIRED	REQUIRED	REQUIRED
3	<b>STANDPIPE SYSTEM</b>	BUILDING EXCEEDING 9M IN HEIGHT	EXCEEDING 9M IN HEIGHT	REQUIRED	REQUIRED
4	<b>FIRE HOSE REELS</b>	25MM DIAMETER HOSE	REQUIRED	REQUIRED	REQUIRED
5	<b>AUTOMATIC SPRINKLER SYSTEM</b>	THROUGHOUT PROTECTION (ALL FLOOR LEVELS)	NOT REQUIRED	NOT REQUIRED (LABOR ACCOMMODATIONS ONLY)	REQUIRED
		IN BASEMENTS IRREGARDLESS OF USAGE	REQUIRED	REQUIRED	REQUIRED
		ACCOMMODATIONS NOT MORE THAN 2 STORIES & AREA NOT EXCEEDING 1115M <sup>2</sup> , PROVIDED WITH NOT LESS THAN 2-EXITS COMPLYING WITH EXIT DISCHARGE REQTS.	NOT APPLICABLE	PERMITTED	NOT APPLICABLE



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		SLEEPING ROOMS HAVING A DOOR OPENING DIRECTLY OUTSIDE AT THE STREET LEVEL	PERMITTED	NOT APPLICABLE	NOT APPLICABLE
		SLEEPING ROOMS HAVING AN EXTERIOR ACCESS COMPLYING WITH CHAPTER 7 OF NFPA 101	PERMITTED	NOT APPLICABLE	NOT APPLICABLE
6	OTHER EXTINGUISHING EQUIPMENT	PROVIDED IN LIEU OF THE REQUIRED DRAFSTOPS IN CONCEALED SPACES	PERMITTED	PERMITTED	PERMITTED
VIII	BUILDING SERVICES PROTECTION (ASS* AUTOMATIC SUPPRESSION SYSTEM)				
A	BUILDING UTILITIES	COMPLYING WITH CHAPTER 9 NFPA 101	LOW-RISE	MEDIUM-RISE	HIGH RISE
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*
		STAND ALONE 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	REQUIRED WHEN PROVIDED	REQUIRED WHEN PROVIDED	REQUIRED WHEN PROVIDED
	KITCHEN/PANTRY	ENCLOSURE FRP*	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
	COOKING EQUIPMENT	EQUIPMENT USED ONLY FOR FOOD WARMING	NOT PERMITTED	NOT PERMITTED	NOT PERMITTED
4	ELEVATORS, ESCALATORS & CONVEYORS	COMPLYING WITH ASME A17.1/CSA B44	REQUIRED	REQUIRED	REQUIRED
	FIRE FIGHTERS' EMERGENCY OPERATION	COMPLYING WITH CHAPTER 9 NFPA 101 & ASME A17.1/CSA B44	REQUIRED	REQUIRED	REQUIRED
B	RUBBISH CHUTE, INCINERATORS & LAUNDRY CHUTES	COMPLYING WITH NFPA 82	REQUIRED	REQUIRED	REQUIRED
	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
3	ACCESS COMPONENT (UNDERGROUND LOCATION)	STANDARD TYPE STAIR (OF ANY NON-COMBUSTIBLE MATERIAL)	REQUIRED	REQUIRED	REQUIRED





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		CAT STEEL LADDER	NOT PERMITTED	NOT PERMITTED	NOT PERMITTED
E	<b>FIRE WATER TANKS</b>	COMPLYING WITH NFPA 22	REQUIRED	REQUIRED	REQUIRED
	<b>WATER TANK MATERIALS</b>	NON-COMBUSTIBLE MATERIAL	REQUIRED	REQUIRED	REQUIRED
	<b>DESIGN/COMPARTMENTATION</b>	TWO (2) COMPARTMENTS	REQUIRED	REQUIRED	REQUIRED
F	<b>SMOKE CONTROL / EMERGENCY VENTILATION</b>	COMPLYING WITH NFPA 92 & NFPA 204	NOT REQUIRED	REQUIRED	REQUIRED
	VENTILATION BY ANY OF THE FOLLOWING: a. NATURAL VENTILATION; b. MECHANICAL VENTILATION BY POSITIVE VENTILATION (PRESSURIZATION) SYSTEM	EXIT STAIRCASES CONNECTS FIVE (5) STOREYS (LEVELS) INCLUDING BASEMENT/S	NOT APPLICABLE	REQUIRED	REQUIRED
		AND/OR WHEN SMOKE-STOP &/OR FIRE FIGHTING LOBBIES ARE REQUIRED	NOT APPLICABLE	NOT APPLICABLE	REQUIRED
	VENTILATION / SMOKE CONTROL SYSTEM BY ANY OF THE FOLLOWING: a. NATURAL VENTILATION; b. 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	<b>AIR-CONDITIONING &amp; VENTILATION SYSTEM</b>	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