



Lusail Real Estate Development Company

Health, Safety, Security, Environment, Logistics & Quality Department

Lusail Construction Safety Management Procedure – Building Plan Fire Safety Guide (PORTABLE CABINS AND TEMPORARY BUILDINGS IN CONSTRUCTION SITES)

Document No	<u>LUS-HSE-WG3-446-061.00</u>	Rev	<u>0</u>
Uncontrolled Copy	<input type="checkbox"/>	Controlled Copy	<input checked="" type="checkbox"/>
		Date	<u>29-Apr-2015</u>

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BUILDING PLAN – FIRE SAFETY GUIDE

PORTABLE CABINS AND TEMPORARY BUILDINGS IN CONSTRUCTION SITES

I APPLICATIONS		A BUILDING OR GROUP OF BUILDINGS REQUIRED IN CONNECTION WITH ANY OTHER BUILDING WORKS RELATING TO PERMANENT BUILDINGS DESIGNED TO BE EASILY MOVED FROM LOCATION TO LOCATION THAT MAY BE BROUGHT ON SITE OR CONSTRUCTED FOR DEFINED PERIOD OF USE PRIOR TO REMOVAL.			
SITE OFFICES / LABOUR ACCOMMODATIONS / STORES					
II OCCUPANCY CLASSIFICATION*		BUILDING HEIGHT REQUIREMENTS	NUMBER OF OCCUPANTS OR AREA REQUIREMENTS		
A	PORTA-CABINS	PORTABLE CABINS	≤ 7.5M (2-STOUREYS)	35M ² /unit	
B	TEMPORARY BUILDINGS	LIGHTWEIGHT CONSTRUCTION MADE FROM NON-COMBUSTIBLE, STEELS MATERIALS OR PORTABLE CABINS (STACKED, BACK TO BACK OR END TO END DESIGN)	≤ 10M (G+2) WITH OPEN-SIDED CORRIDORS ≤ 7.5M (G+1) WITH INTERNAL CORRIDORS	≤ 500M ² 200M MAX LENGTH OF EACH COMPARTMENT	
C	RESERVED	–	–	–	
FIRE SAFETY PROVISIONS		MINIMUM REQUIREMENTS			
		PORTA-CABINS	TEMPORARY BUILDINGS	RESERVED	
III SITE ACCESS					
A	SITE ACCESS & ACCESS ROAD	CLEAR WIDTH	4.0M MIN.	4.0M MIN.	–
IV BUILDING SETBACKS					
A	DISTANCE FROM LOT BOUNDARY	3.0 METERS	REQUIRED	REQUIRED	–
B	FIREBREAKS FROM EACH UNIT/STRUCTURES	4.0 METERS	REQUIRED	REQUIRED	–
C	DISTANCE FROM ANY COOKING FACILITIES	5.0 METERS	REQUIRED	REQUIRED	–
	DISTANCE WITHIN 5M	1-HR FRP (FIRE RESISTANT PERIOD) ENCLOSURE	REQUIRED	REQUIRED	–
V MEANS OF EGRESS (FRR** FIRE RESISTANCE RATING / FPR*** FIRE PROTECTION RATING)					
A COMPONENTS AND CAPACITY OF MEANS OF EGRESS					
1	SWING-TYPE DOORS	MINIMUM CLEAR WIDTH (<5 PERSONS)	750MM	810MM (32IN.)	–
2	STAIRS	DOORS FRP (FIRE RESISTANT PERIOD)	NOT REQUIRED	½ - HR FRR**	–
		WALL ENCLOSURE FRP (FIRE RESISTANT PERIOD)	NOT REQUIRED	1-HR FRR**	–
	STANDARDS STAIRS	MINIMUM CLEAR WIDTH	1000MM	1000MM	–
	SPIRAL STAIRS	COMPLYING WITH NFPA 101	PERMITTED	PERMITTED AS SECONDARY EXIT	–
3	CORRIDORS	MINIMUM CLEAR WIDTH INTERNAL CORRIDORS	1500MM	1500MM	–
		MINIMUM CLEAR WIDTH OPEN-SIDED CORRIDORS	1000MM	1000MM	–
4	FIREMAN ACCESS PANELS	OPENABLE WINDOWS (0.53 M ²)	510MM X 610MM	510MM X 610MM	–
B NUMBER OF EXITS					
1	SINGLE EXIT	DOORS/S AS MAIN EXIT/S	REQUIRED	2 SEPARATE EXITS REQUIRED	–
		WINDOW/S AS SECONDARY EXIT	REQUIRED	REQUIRED	–
2	2 EXITS	STAIR/S AS MAIN EXIT/S	REQUIRED	REQUIRED	–

TEMPORARY BUILDINGS IN CONSTRUCTION SITES (Rev. 2015)



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SITE OFFICES / LABOUR ACCOMMODATIONS / STORES				
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C	RESERVED	-	-	-
FIRE SAFETY PROVISIONS		MINIMUM REQUIREMENTS		
		PORTA-CABINS	TEMPORARY BUILDINGS	RESERVED
C	CAPACITY OF MEANS OF EGRESS			
1	OCCUPANT LOAD FACTOR	3 M ² PER PERSON	3 M ² PER PERSON	-
D	ARRANGEMENT OF EXITS			
1	TRAVEL DISTANCE	ESCAPE ROUTE VIA OPEN-SIDED CORRIDORS	9M	45M
		ESCAPE ROUTE VIA INTERNAL CORRIDORS	NO REQUIREMENT	30M
2	COMMON PATH LIMIT	ESCAPE ROUTE VIA OPEN-SIDED CORRIDORS	9M	20M
		ESCAPE ROUTE VIA INTERNAL CORRIDORS	NO REQUIREMENT	15M
3	DEAD-END CORRIDOR		NOT PERMITTED	NOT PRMITTED
4	EXIT DISCHARGE	DIRECT EXIT DISCHARGE TO BUILDING EXTERNAL	REQUIRED	REQUIRED
E	ILLUMINATION OF EXITS AND MARKINGS OF THE MEANS OF EGRESS			
1	EXIT LIGHTS	EXITS, EXIT ACCESS & EXIT DISCHARGE	REQUIRED	REQUIRED
2	EXIT SIGNS	EXIT ACCESS, EXIT DISCHARGE & EXITS OTHER THAN MAIN EXTERIOR EXIT DOORS	REQUIRED	REQUIRED
VI	BUILDING CONSTRUCTION	PORTA-CABINS		
A	CONSTRUCTION			
1	NON-COMBUSTIBLE OR STEEL MATERIALS		REQUIRED	REQUIRED
2	TIMBER MATERIALS	EXTERIOR BEARING WALLS	1-HR FRR**	1-HR FRR**
		FRAMING, COLUMNS, BEAMS, GIRDERS, TRUSSES	1-HR FRR**	1-HR FRR**
		FLOOR CONSTRUCTION	1-HR FRR**	1-HR FRR**
3	BASE SUPPORT	ERECTED ON HARDBASE (CONCRETE)	REQUIRED	REQUIRED
B	COMPARTMENTATION			
1	WALL BETWEEN EACH COMPARTMENT	20M MAX LENGTH OF EACH COMPARTMENTATION	NOT REQUIRED	1-HR FRR**

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C	RESERVED	–	–	–	
	<i>FIRE SAFETY PROVISIONS</i>	<i>MINIMUM REQUIREMENTS</i>	PORTA-CABINS	TEMPORARY BUILDINGS	RESERVED
2	WALLS BETWEEN UNITS	WITHIN EACH COMPARTMENT	NOT REQUIRED	NOT REQUIRED	–
3	EXIT ACCESS CORRIDORS	INTERNAL CORRIDORS	½-HR FRR**	½-HR FRR**	–
		OPEN-SIDED CORRIDORS	NOT REQUIRED	NOT REQUIRED	–
		FIRE DOORS (INTERNAL CORRIDORS)	NOT REQUIRED	NOT REQUIRED	–
VII	FIRE PROTECTION				
A	DETECTION ALARM AND COMMUNICATION SYSTEM				
1	FIRE ALARM SYSTEM	STAND ALONE DETECTORS (SMOKE ALARMS WIRED AND/OR BATTERY OPERATED)	PERMITTED	PERMITTED	–
		MANUAL CALL POINT	REQUIRED	REQUIRED	–
B	EXTINGUISHING REQUIREMENTS				
1	PORTABLE FIRE EXTINGUISHERS	AT ENTRANCE IN EVERY UNIT	REQUIRED	REQUIRED	–
		NEXT TO EVERY STAIRCASE AT EACH FLOOR	REQUIRED	REQUIRED	–
2	FIRE HOSE REELS	25MM DIAMETER HOSE	NOT REQUIRED	REQUIRED	–
5	FIRE HYDRANTS	TEMPORARY BUILDINGS >100M AWAY FROM PUBLIC ROAD	NOT REQUIRED	NOT REQUIRED	–
C	AIR-CONDITIONING & MECHANICAL VENTILATION				
1	ALL HABITABLE ROOMS	NATURAL OR MECHANICAL VENTILATION	REQUIRED	REQUIRED	–
		OPENINGS FOR AIR-CIRCULATION	REQUIRED	REQUIRED	–

TEMPORARY BUILDINGS IN CONSTRUCTION SITES (Rev. 2015)

Note: This Fire Safety Guide has been adopted from the Fire Prevention Department of Qatar Civil Defense and is prepared to determine the minimum required Fire Safety provisions for each Occupancy Type as referenced from General Directorate of Civil Defense (GDCC) and the adopted National Fire Protection Association (NFPA) Codes & Standards. For further guidance, the user is referred to the NFPA Codes and Standards and the General Fire Safety Requirements – Guidelines Annexes.

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

°FRR ** - FIRE RESISTANCE RATING ; °FPR *** - FIRE PROTECTION RATING; °ASS -AUTOMATIC SPRINKLER SYSTEM / AUTOMATIC SUPPRESSION SYSTEM; °SS-SMOKE-STOP LOBBY; °FF-FIRE-FIGHTING LOBBY; °NP-NOT PERMITTED;

°P-PERMITTED; °N/A-NOT APPLICABLE; °R-REQUIRED; °NR-NOT REQUIRED.