

Lusail Real Estate Development Company

Health, Safety, Security, Environment, Logistics & Quality

Department

Lusail Construction Safety Management Procedure – Building Plan Fire Safety Guide

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COMPANY PROPRIETARY INFORMATION

Amendment Record

This document is reviewed to ensure its continuing relevance to the systems and process that it describes. A record of contextual additions or omissions is given below:

Rev. No	Description / Comments	Prepared By	Checked By	Approved By	Issue Date
0	Creation of new Document	Joao Canas	Mick Ford Michael Ford	Uwe Krueger	29 April 2015

TEMPORARY BUILDINGS IN CONSTRUCTION SITES



BUILDING PLAN - FIRE SAFETY GUIDE

PORTABLE CABINS TEMPORARY BUILDINGS IN CONSTRUCTION SITES

I	APPLICATIONS	A building or group of buildings required in connection with any building works relating				
	SITE OFFICES / LABOUR ACCOMMODATION / STORES	to permanent buildings designed to be easily moved from location to location that may be brought on to site or constructed for defined period of use prior to removal.				
II	OCCUPANCY CLASSIFICATION**	BUILDING HEIGHT REC		NUMBER OF OCCUPANTS OR AREA REQUIREMENTS		
A	PORTA-CABINS	PORTABLE CABINS	≤ 7.5M (2 Stories)		35M²/unit	
В	TEMPORARY BUILDINGS	Lightweight construction made from non-combustible, steel materials or portable cabins (stacked, abck to back or end to end design)	≤10M (G+2) with open-sided corridors ≤7.5M (G+1) with internal corridors		≤500M² 20M max length of each compartments	
С	RESERVED	-	_			=
	FIRE SAFETY PROVISIONS	MINIMUM REQUIREMENTS	PORTA CABINS	TEMPORARY	BUILDINGS	RESERVED
III	SITE ACCESS					
Α	SITE ACCESS & ACCESS ROAD	CLEAR WIDTH	4.0M MIN.	4.0M	MIN.	-
IV	BUILDING SETBACKS					
A	DISTANCE FROM LOT BOUNDARY	3.0 METERS	REQUIRED	REQU	IRED	_
В	FIREBREAKS FROM EACH UNIT/STRUCTURES	4.0 METERS	REQUIRED	REQUIRED		_
С	DISTANCE FROM ANY COOKING FACILITIES	5.0 METERS	REQUIRED	REQUIRED		_
	DISTANCE WITHIN 5M	1-HR FRP 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.)		_
	STAIRS	DOORS FRP (FIRE RESISTANCE PERIOD)	NOT REQUIRED	½ - HR FRR*		_
		WALL ENCLOSURE FRP	NOT REQUIRED	1-HR FRR*		-
	STANDARDS STAIRS	MINIMUM CLEAR WIDTH	1000MM	1000MM		-
	SPIRAL STAIRS	COMPLYING WITH NFPA 101	PERMITTED	PERMITTED AS SECONDARY EXIT		_
3	CARRIDARS	MINIMUM CLEAR WIDTH INTERNAL CORRIDORS	1500MM			-
3	CORRIDORS	MINIMUM CLEAR WIDTH OPEN-SIDED CORRIDORS	1000MM	1000MM		-
4	FIREMEN ACCESS PANELS	OOPENABLE WINDOWS (0.53 M²)	510MM X 610MM	510MM X 610MM		
В	NUMBER OF EXITS					
	SINGLE EXIT	DOORS AS MAIN EXIT/S	REQUIRED	2 SEPARA REQU		-
		WINDOW AS SECONDARY EXIT	REQUIRED	REQU	IRED	-
	2 EXITS	STAIR/S AS MAIN EXIT/S	REQUIRED	REQUIRED		-

TEMPORARY BUIDINGS IN CONSTRUCTION SITES (Rev. 2015)



PORTA CABIN AND TEMPORARY BUILDINGS IN CONSTRUCTION SITES

I	APPLICATIONS	A building or group of buidings required in connection with any building works relating to permanent buildings designed to be easily moved from location to location that may be brought on to site or constructed for defined period of use prior to removal.					
	SITE OFFICES / LABOUR ACCOMMODATION / STORES						
II	OCCUPANCY CLASSIFICATION**		BUILDING HEIGHT REQUIRMENTS		NUMBER OF OCCUPANTS OR AREA REQUIREMENTS		
Α	PORTA-CABINS	PORTABLE CABINS	<_7.5M (2 Stori	ries)		35M²/unit	
В	TEMPORARY BUILDINGS	Lightweight construction made from non-combustible, steel materials or portable cabins (stacked, back to back or end to end design)	<10M (G+2) with open-s <7.5M (G+1) with inter-	with internal corridors		≤500M² I max length of each compartments	
С	RESERVED	-	_		_		
	FIRE SAFETY PROVISIONS	MINIMUM REQUIREMENTS	PORTA CABINS	TEMPORARY	BUILDINGS	RESERVED	
С	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	45	M	-	
1	1 RAVEL DISTANCE	ESCAPE ROUTE VIA INTERNAL CORRIDORS	NO REQUIREMENT	30	М		
2	COMMON PATH LIMIT	ESCAPE ROUTE VIA OPEN-SIDED CORRIDORS	9M	20	M	_	
	COMMONTATTILIMIT	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		_	
Е	ILLUMINATION OF EXITS AND MARKINGS OF THE MEANS OF EGRESS						
1	EXIT LIGHTS	EXITS, EXIT ACCESS & EXIT DISCHARGE	REQUIRED	REQU	IRED	_	
2	EXIT SIGNS	EXIT ACCESS, EXIT DISCHARGE & EXITS OTHER THAN MAIN EXTERIOR EXIT DOORS	REQUIRED	REQUIRED		_	
IV	BUILDING CONSTRUCTION		PORTA-CABINS				
A	CONSTRUCTION						
1	NON-COMBUSTIBLE OR STEEL MATERIALS		REQUIRED	REQUIRED		ı	
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	REQU	IRED	-	
В	COMPARTMENTATION						
1	WALL BETWEEN EACH COMPARTMENT	20M MAX LENGTH OF EACH COMPARTMENTATION	NOT REQUIRED	1-HR	FRR*	-	

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С	RESERVED	-			_		
	FIRE SAFETY PROVISIONS	MINIMUM REQUIREMENTS	PORTA CABINS	TEMPORARY BUILDINGS		RESERVED	
2	WALLS BETWEEN UNITS	WITHIN EACH COMPARTMENT	NOT REQUIRED	NOT REQUIRED		-	
	EXIT ACCESS CORRIDORS	INTERNAL CORRIDORS	½-HR FRR*	½-HR	FRR*	-	
3		OPEN-SIDED CORRIDORS	NOT REQUIRED	NOT REQUIRED NOT REQUIRED		-	
		FIRE DOORS (INTERNAL CORRIDORS)	NOT REQUIRED			-	
VII	FIRE PROTECTION						
Α	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	REQU	IRED	_	
В	EXTINGUISHING REQUIREMENTS					-	
1	PORTABLE FIRE EXTINGUISHERS	AT ENTRANCE IN EVERY UNIT	REQUIRED	REQU	IRED	_	
1		NEXT TO EVERY STAIRCASE AT EACH FLOOR	REQUIRED	REQU	IRED	-	
2	FIRE HOSE REELS	25MM DIAMETER HOSE	NOT REQUIRED	NOT REQUIRED		=	
5	FIRE HYDRANTS	TEMPORARY BUILDINGS > 100M AWAY FROM PUBLIC ROAD	NOT REQUIRED	NOT REQUIRED		_	
С	AIR-CONDITIONING & MECHANICAL VENTILATON						
1	ALL HABITABLE ROOMS	NATURAL OR MECHANICAL VENTILATION	REQUIRED	REQUIRED		-	
		OPENINGS FOR AIR-CIRCULATION	REQUIRED	REQU	IRED	-	

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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 (GDCD) 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 both the height and area requirements or criteria are met, the next higher classification or category SHALL apply.

[°]FPR * FIRE RESISTANCE 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