

SINGAPORE CIVIL DEFENCE FORCE

Our Ref. : CD/FSSD/12/02/03/01

Your Ref :

Date : 12 Dec 2013



HQ Singapore Civil Defence Force
91 Ubi Avenue 4
Singapore 408827
Tel : 68481457
Fax : 68481489

Registrar, Board of Architects (BOA)
Registrar, Professional Engineers Board (PEB)
President, Singapore Institute of Architects (SIA)
President, Institution of Engineers, Singapore (IES)
President, Association of Consulting Engineers, Singapore (ACES)

Dear Sir/Mdm,

AMENDMENT TO FIRE CODE - REVISION TO VENTILATION, SMOKE PURGING AND SPRINKLER REQUIREMENTS FOR ABOVEGROUND MULTI-STOREY CARPARKS

Please be informed that revision has been made to the provision of ventilation, smoke purging and sprinkler for aboveground multi-storey carparks. The revised requirements are summarised in the table in Annex A. The car parking areas mentioned in the table shall include the driveways, ramps, loading and unloading areas, pick-up point, etc.

2. Kindly convey the contents of this circular to members of your Institution/Association/Board. The circular is available in CORENET-e-Info: <http://www.corenet.gov.sg/einfo>.

3. For any inquiry or clarification, please contact LTC Choh Choon Jin at Tel: 68481454 or email: Choh_Choon_jin@scdf.gov.sg.

Yours faithfully,

(transmitted via e-mail)
MAJ Tan Chung Yee
Secretary, FSSD Standing Committee
Fire Safety and Shelter Department
for Commissioner
Singapore Civil Defence Force



SINGAPORE CIVIL DEFENCE FORCE

Our Ref. : CD/FSSD/12/02/03/01

Your Ref :

Date : 12 Dec 2013



HQ Singapore Civil Defence Force
91 Ubi Avenue 4
Singapore 408827
Tel : 68481457
Fax : 68481489

cc

CEO, BCA
CEO, URA
CEO, HDB
CEO, JTC
CE, LTA
CE, SPRING Singapore
President, REDAS
President, IFE
President, SISV
President, FSMAS
President, SCAL
Honorary Secretary, SPM
FSSD Standing Committee



Ventilation, Smoke Purging System & Automatic Sprinkler System Requirements for Aboveground Carparks (standalone or within buildings)

Habitable Height		Aboveground Carpark									
		Criteria for The Largest Compartment			Ventilation [Meeting Cl. 3.2.8(C)]	Smoke Purging System	Automatic Sprinkler	Fire Alarm			
Building	Carpark	Area	Cubicle Extent	No. of Storey				Auto	Manual		
≤ 24m	≤ 24m	≤ 4,000 m ²	≤ 15,000 m ³	≤ 3 storey	NR	NR	NR ²	NR ¹	NR		
		> 4,000 m ² ≤ 5000 m ²	NA	NA	Comply	NR	NR ²	R ³	NR ³		
					Not comply	NR	R	NR	NR		
		NA	> 15,000 m ³	NA	Comply	NR	NR ²	R ³	NR ³		
					Not comply	NR	R	NR	NR		
		NA	NA	> 3 storey	Comply	NR	NR ²	R ³	NR ³		
					Not comply	R	R	NR	NR		
		> 5,000 m ²	NA	NA	Comply	NR	NR ²	R ³	NR ³		
					Not comply	R	R	NR	NR		
		> 24m	≤ 24m	NA	NA	NA	Comply	NR	R	NR	NR
							Not comply	R ⁴	R	NR	NR
		> 24m	> 24m	NA	NA	NA	Comply	NR	R	NR	NR
Not comply	R						R	NR	NR		

NA - not applicable NR - not required R - required

¹ For building exceeding 4 storey, automatic alarm system shall be provided

² Sprinkler shall be extended to the carpark if the building where the carpark is located is protected with automatic sprinkler system

³ For Purpose Group II buildings, only manual fire alarm system shall be provided to the car parking area subject to Table 6.3A

⁴ Smoke purging system is not required if the carpark area exceeds 4000 sqm but not exceeding 5000 sqm, regardless of the size of the cubical extent