

# SINGAPORE CIVIL DEFENCE FORCE FIRE SAFETY AND SHELTER DEPARTMENT

HQ SINGAPORE CIVIL DEFENCE FORCE  
91 Ubi Avenue 4 Singapore 408827  
Website: <http://www.scdf.gov.sg>



Please quote our ref. no. in all future correspondences

Our Ref: CD/FSSD/12/01/03/04

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14 Nov 2007

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 Sirs

## **REVISED FIRE RESISTANCE REQUIREMENT FOR ELEMENTS OF STRUCTURE OF CARPARK LOCATED IN THE BASEMENT OF A SINGLE- BASEMENT BUILDING**

Under the current Fire Code 2007, there is no reduction of fire resistance rating for elements of structure of basement carpark in a single-basement building, even if the carpark is protected by automatic sprinkler system.

2. SCDF has reviewed the risk level of a single-basement carpark that is protected by automatic sprinkler system and reckoned that should there be a fire outbreak in a vehicle, the sprinkler system would be able to prevent the spread of fire from car to car and help to reduce the build up of heat.

3. SCDF has decided that, with immediate effect, the minimum period of fire resistance rating of elements of structure of sprinkler-protected basement carpark (classified as Purpose Group VIII and required to 4-hour fire resisting under Table 3.3A of the Fire Code) in a building with only one basement level, can be reduced to 2 hours.

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

5. For any enquiry or clarification, please contact Mr. Randy Tan at tel. no. 68481461 or e-mail address: [Randy\\_Tan@scdf.gov.sg](mailto:Randy_Tan@scdf.gov.sg).

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Yours faithfully

(transmitted via e-mail)

Poon Keng Soon  
Secretary, FSSD Standing Committee  
for Commissioner  
Singapore Civil Defence Force

cc

All members of FSSD Standing Committee

President, REDAS

President, IFE

President, SISV

CEO, BCA

CEO, URA

CEO, HDB

CEO, PSA

CEO, JTC

CE, LTA

CE, PSB – (Attn : Ms Tan Chiew Wan/Mr. Lau Keong Ong)

GM, SPRING Singapore – (Attn : Mr. Teo Nam Kuan)