



SCDF
The Life Saving Force
... for a safer Singapore

SINGAPORE CIVIL DEFENCE FORCE



Your Ref :

Our Ref: CD/04/05/01/01

Date : 1 Mar 2023

Registrar, Board of Architects
Registrar, Professional Engineers Board
President, Singapore Institute of Architects
President, Institution of Engineers, Singapore
President, Association of Consulting Engineers, Singapore

Dear Sir/Mdm,

AMENDMENTS TO FIRE CODE 2018 - 12th BATCH OF AMENDMENTS

SCDF would like to issue the 12th batch of amendments to the Code of Practice for Fire Precautions in Buildings 2018 (Fire Code 2018). The amendments which were deliberated and accepted by the Fire Code Review Committee are attached as Annex A & Annex B of this circular.

2. Amendments stipulated in these Annexes shall take effect from the dates specified therein. For those amendments that are to take effect at future date as specified in Annex A, Qualified Persons are encouraged to comply with the requirements before the effective date. Any proposed plans of fire safety works for new buildings or existing buildings that are submitted to SCDF for approval on or after the effective date shall be subjected to the amendments made to the Fire Code.

3. Please convey the contents of this circular to members of your Board/ Institution/ Association. This circular is also available in CORENET's e-Info: <http://www.corenet.gov.sg/einfo>.



SCDF – A member of the Home Team

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4. For general queries, you may contact Mr Randy Tan at DID: 68481461 or Mr Tan Yi Yang at DID: 68481734. However, for specific queries relating to edits for regulated fire safety products/ materials for fire-resistant cables, please contact CPT Daven Tan at 68481408.

Yours faithfully

(transmitted via email)

LTC Tan Chung Yee
for Commissioner
Singapore Civil Defence Force

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SCDF Fire Safety Standing Committee
Fire Code Review Committee

S/N	Clause No	Amendment Date	Effective Date	Clause Status	Clause Before Amendment	Clause After Amendment
1	3.7.7a.	01/03/2023	01/03/2023	Revised/ Clarification	<p>Use of fire shutter</p> <p>a. General</p> <p>A fire shutter is permitted to be used as compartment wall, except for the fire compartmentation of Fire Command Centre (FCC) and means of escape, which include exit staircases, smoke-free lobbies/fire lift lobbies, internal exit passageways, etc.</p> <p>b.</p>	<p>Use of fire shutter</p> <p>a. General</p> <p>A fire shutter is permitted to be used as compartment wall, except for the fire compartmentation of to comply with the requirements of Cl.3.2.4b., Fire Command Centre (FCC) and means of escape, which include exit staircases, smoke-free lobbies/fire lift lobbies, internal exit passageways, etc.</p> <p>b.</p>
2	4.2.3a.	01/03/2023	01/09/2023	Revised	<p>Fire access opening to building for firefighting</p> <p>a. Provision</p> <p>Fire access openings shall be provided on the external wall for external firefighting and rescue operations. This can include unobstructed external wall openings, windows, balcony doors, glazed wall panels and access panels. Windows, doors, wall panels or access panels shall be readily openable from</p>	<p>Fire access opening to building for firefighting</p> <p>a. Provision</p> <p>Fire access openings shall be provided on the external wall for external firefighting and rescue operations. This can include unobstructed external wall openings, windows, balcony doors, glazed wall panels and access panels. There shall be a minimum clearance area of 3.5m in width and 2.5m in height around the fire access</p>

					the inside and outside. The inside and outside of fire access openings shall be unobstructed at all times during the occupancy of the building. There shall be no furniture or any other obstruction within 1m from the fire access openings at the landing inside the building.	opening, and with minimum clearance distance of 1.1m measured below the lower edge of the fire access opening, and 400mm measured above the upper edge of the fire access opening. Windows, doors, wall panels or access panels shall be readily openable from the inside and outside. The inside and outside of fire access openings shall be unobstructed at all times during the occupancy of the building. There shall be no furniture or any other obstruction within 1m from the fire access openings at the landing inside the building.
3	7.4.1b.	01/03/2023	01/09/2023	Relaxation	Provision a. b. A smoke vent in accordance with Cl.7.4.2 shall be provided if the total aggregate floor area of all basement storeys does not exceed 2000m ² . In lieu of smoke vents, a smoke purging system or an engineered smoke control system is permissible for car parks or other occupancies respectively.	Provision a. b. A smoke vent in accordance with Cl.7.4.2 shall be provided if the total aggregate floor area of all basement storeys does not exceed 2000m ² , except for PG I buildings. In lieu of smoke vents, a smoke purging system or an engineered smoke control system is permissible for car parks or other occupancies respectively.
4	8.1.7a.(3)	01/03/2023	01/03/2023	Revised/ Clarification	Exit and exit directional signs a. Exit sign	Exit and exit directional signs a. Exit sign

					<p>(1)</p> <p>(2)</p> <p>(3) Exemption</p> <p>Exit sign is not required under the following situations:</p> <p>(a) PG I and II buildings</p> <p>(b) Room provided with emergency lighting</p> <p>(i) When a room is provided with only one door (see <i>Diagram 8.1.7a.(3)(b)(i)</i>); or</p> <p>(ii) When a room or internal space is fully open towards an external corridor or the external of a building.</p> <p>(c) Room without emergency lighting</p> <p>(i) When a room is provided with only one door and the direct distance from the furthest distance in</p>	<p>(1)</p> <p>(2)</p> <p>(3) Exit sign shall be provided over final discharge door within exit enclosure such as exit staircase and internal exit passageway having other exit/ exit access door opening into the exit enclosure at the discharge floor (see <i>Diagram 8.1.7a.(3)</i>).</p> <p>(4) Exemption</p> <p>Exit sign is not required under the following situations:</p> <p>(a) PG I and II buildings</p> <p>(b) Room provided with emergency lighting</p> <p>(i) When a room is provided with only one door (see <i>Diagram 8.1.7a.(3)(4)(b)(i)</i>); or</p> <p>(ii) When a room or internal space is fully open towards an external</p>
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					<p>the room to the exit access door is 7m or less (see <i>Diagram 8.1.7a.(3)(c)(i) – 1 & 2</i>);</p> <p>(ii) When the furthest point in the room to the exit access door is 13m or less and wall of the room comprises not less than 50% clear glazing facing (see <i>Diagram 8.1.7a.(3)(c)(ii)</i>):</p> <ul style="list-style-type: none"> • an internal corridor covered by emergency lighting, • an external corridor, or • the external of the building. <p>(iii) When an internal space is fully open towards an external corridor or the external of a building.</p> <p>(d) Open-sided single storey building, with floor area not exceeding 200m² and</p>	<p>corridor or the external of a building.</p> <p>(c) Room without emergency lighting</p> <p>(i) When a room is provided with only one door and the direct distance from the furthest distance in the room to the exit access door is 7m or less (see <i>Diagram 8.1.7a.(3)(4)(c)(i) – 1 & 2</i>); or</p> <p>(ii) When the furthest point in the room to the exit access door is 13m or less and wall of the room comprises not less than 50% clear glazing facing (see <i>Diagram 8.1.7a.(3)(4)(c)(ii)</i>):</p> <ul style="list-style-type: none"> • an internal corridor covered by emergency lighting,
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					<p>openings that constitute at least 80% of the perimeter wall area (measured along the roof eaves).</p>	<ul style="list-style-type: none">• an external corridor, or• the external of the building. <p>(iii) When an internal space is fully open towards an external corridor or the external of a building.</p> <p>(d) Open-sided single storey building, with floor area not exceeding 200m² and openings that constitute at least 80% of the perimeter wall area (measured along the roof eaves).</p> <p>(e) When a room or internal space is fully open towards an external corridor or the external of a building.</p> <p>(f) Exit enclosure such as exit staircase and internal exit passageway not provided with final discharge door (see <i>Diagram 8.1.7a.(4)(f)</i>).</p>
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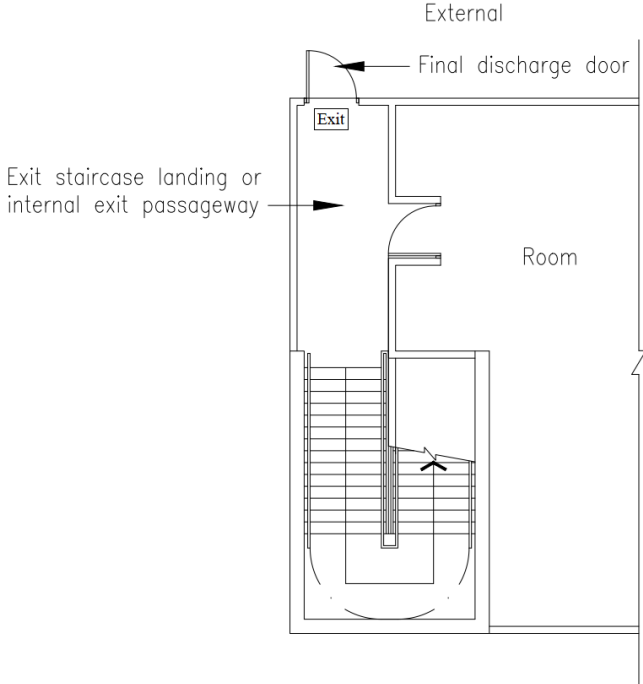


Diagram 8.1.7a.(3)

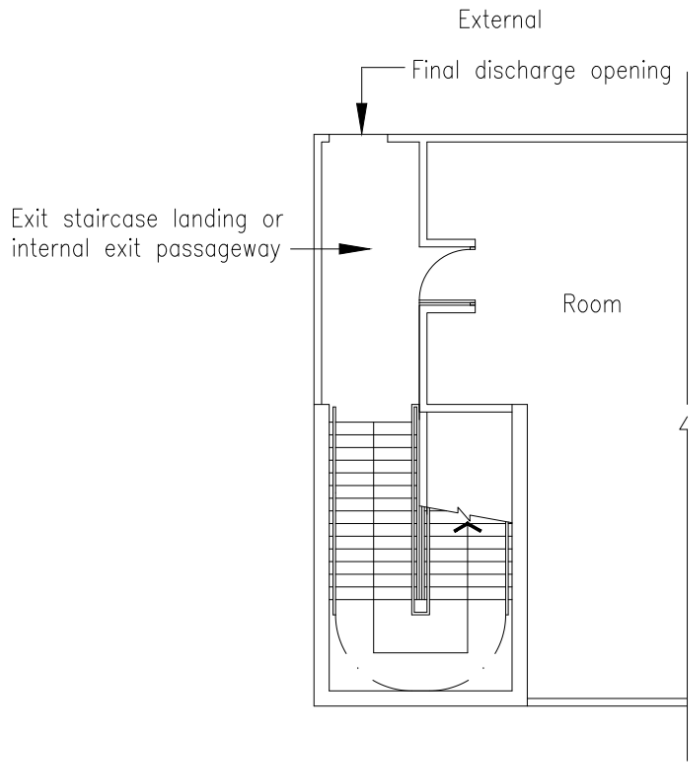


Diagram 8.1.7a.(4)(f)

5	8.1.7b.(1)	01/03/2023	01/03/2023	Revised/ Clarification	Exit and exit directional signs a. b. Directional signs (1) In long corridors, in open floor areas, and in all situations where	Exit and exit directional signs a. b. Directional signs (1) In long corridors, in open floor areas, and in all situations where
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the location of the exits may not be readily visible, directional signs shall be provided to serve as guides from all portions of the corridors or floors. (See *Diagram 8.1.7b.(1)*)

(2)

the location of the exits may not be readily visible, directional signs shall be provided to serve as guides from all portions of the corridors or floors. (See *Diagram 8.1.7b.(1)*)

(2)

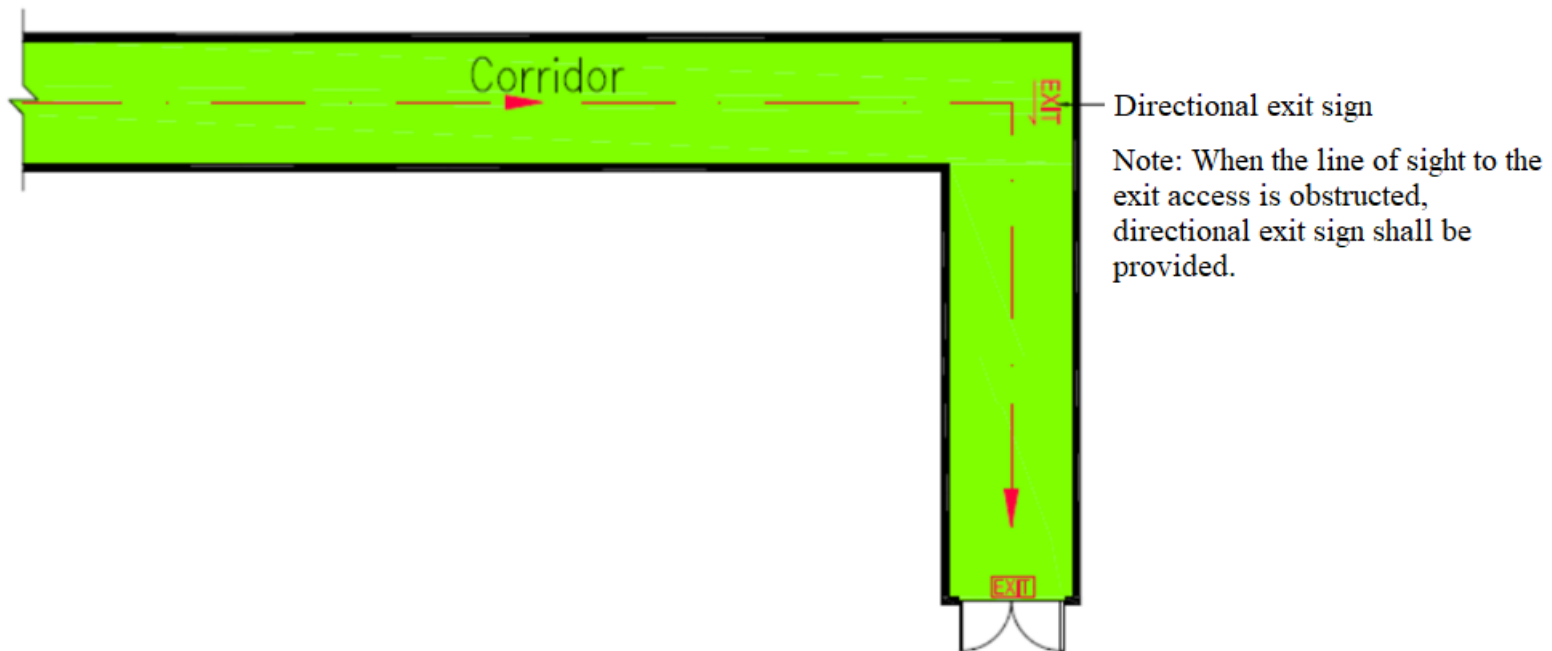


Diagram 8.1.7b.(1)

6	8.2.4d.	01/03/2023	01/03/2023	Revised	<p>Location</p> <p>(1) The FCC shall be located at the same level as the fire engine accessway or fire engine access road and its entrance shall be located in the following order of priority:</p> <p>(a) It shall be within 5m from entrance of the fire lift lobby at the designated storey of the building.</p> <p>(b) In the case where there is no fire lift lobby, it shall be located within vicinity of the fire engine accessway or fire engine access road and within 5m from the entrance of one of the protected stairs serving all storeys of the development.</p>	<p>Location</p> <p>(1) The FCC shall be located at the same level as the fire engine accessway or fire engine access road and its entrance shall be located in the following order of priority:</p> <p>(a) It shall be within 5m from entrance of the fire lift lobby at the designated storey of the building. The travel distance between the nearest edges of the FCC door and fire lift lobby door at the designated storey of the building shall not exceed 5m.</p> <p>(b) In the case where there is no fire lift lobby, it shall be located within vicinity of the fire engine accessway or fire engine access road. and within 5m from the The travel distance between the nearest edges of the FCC door and entrance of one of the protected stairs serving all storeys of the development shall not exceed 5m.</p>
7	<u>Table 11A</u>	01/03/2023	01/09/2023	Revised/ Clarification	Existing <u>Table 11A</u>	See <u>Annex B</u> (affected portion of <u>Table 11A</u>)

TABLE 11A: LIST OF REGULATED FIRE SAFETY PRODUCTS & MATERIALS

S/N	Products / Materials	Acceptable Standards	Certification Scheme	Surveillance Regime	
				Testing	Factory/Site Inspection
26.	Fire-resistant cables	<p>(a) SS 299 1 SS 299 Annex ZA Table ZA.1 for power and control fire-resistant non-armoured cable (Sheathed and Non-sheathed)</p> <p>or</p> <p>BS 6387 and BS 7846 (Clauses 16.2 and 16.3)</p> <p>or</p> <p>SS 299 Annex ZA Table ZA.2 for power and control fire-resistant armoured cable</p>	Scheme 5 (Certified mark printed on cables)	Full tests over 3 5 years	Factory inspection to be conducted at least once annually