

**SINGAPORE CIVIL DEFENCE FORCE
FIRE SAFETY & SHELTER BUREAU**



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Our Ref: FSB 34/86

**DID: 8386453
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18th May 2001

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

**FIRE CODE REVIEW COMMITTEE-
2nd RELEASE OF CHANGES/AMENDMENTS TO FIRE CODE 1997**

The Fire Code Review Committee, which comprises representatives from *SIA, IES, ACES, REDAS, SISV, HDB, JTC, NTU, NUS, BCA, LTA, IFE, PSA, PSB and SCDF, met monthly as from 7th Dec 1999 to review the Fire Code 1997.

2 FSB is pleased to forward to you the 2nd release of changes/amendments to the Fire Code, which have been deliberated and agreed upon by the Fire Code Review Committee. A reprint of the relevant pages of the Fire Code incorporating the changes/amendments, which are highlighted by a black vertical line, are given in Annex A. The changes/amendments to the Fire Code shall take effect as from 1st June 2001.

3 Please convey the contents of this circular and Annex A to members of your Institution/Association/Board/Organisation. You may reprint or photocopy the relevant pages incorporating the changes/amendments to the Fire Code at Annex A for dissemination to your members. The circular is also available in our website: <http://www.scdf.gov.sg>

Teo Lim Teck
Secretary, FSB Standing Committee
for Commissioner
Singapore Civil Defence Force

cc

CEO, BCA

All members of FSB Standing Committee

All members of Fire Code Review Committee

President, REDAS

President, IFE

President, SISV

CEO, HDB

Group President, PSA

CEO, JTC

CE, LTA (Attn: Mr Mohinder Singh)

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

**2nd RELEASE OF CHANGES/AMENDMENTS
TO FIRE CODE 1997**

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1.2.43	Non-load bearing wall means a wall which supports no load other than its own weight.	Non-load bearing wall
1.2.44	Boundary presumed to exist for the purpose of this document between buildings on the same site.	Notional boundary
1.2.45	The "occupant load" of a building or part thereof means the total number of persons that may occupy such building or part thereof at any one time. The "occupant load" shall be established either: (a) by applying to the floor areas available for occupation based on the appropriate areas per person as laid down in Table 1.2 A, or (b) by the actual number of occupants for whom each occupied space of the building is designed as shown on the plans, whichever is greater unless otherwise permitted by the Relevant Authority.	Occupant load
1.2.46	The maximum aggregate area of unprotected areas in any side or external wall of a building or compartment as referred to in Cl. 3.5.3.	Permitted limit of unprotected area
1.2.46(A)	Private lifts are passenger lifts which are meant for the exclusive use of occupants in the building, and are located to open its door directly into private enclosed spaces.	Private lifts New subclause added under Supplement 3/2001 dated 18 May 2001 Effective date 1 Jun 2001
1.2.47	An exit staircase, exit passageway, lift, chute, duct or other shaft which enables persons or things or air to pass from one compartment to another.	Protected shaft
1.2.48	Wall, floor or other part of the building which encloses a protected shaft, but not:	Protecting structure

OCCUPANCY LOAD-
PURPOSE GROUP-II
BUILDING TYPES -

SCHEDULE 2
OTHER RESIDENTIAL
APARTMENTS, MAISONNETTES

FUNCTIONAL SPACES	REMARKS	OCCUPANCY LOAD (m ² /person)
Gross Floor Area	calculated on habitable areas	15.0

OCCUPANCY LOAD-
PURPOSE GROUP III-
BUILDING TYPES-

SCHEDULE 3.1
INSTITUTIONAL
HEALTH-CARE OCCUPANCY
(HOSPITAL, CLINIC & POLYCLINIC)

FUNCTIONAL SPACES	REMARKS	OCCUPANCY LOAD (m ² /person)
Reception Area		3.0
Lobby/Corridors	non-simultaneous	—
Waiting Area/ Visitors Lounge		3.0
Out-patient Waiting Area		1.5
Admin Offices		10.0
Doctor's Offices		10.0
Nursing Station		10.0
Staff Lounge		3.0
Consultant/Treatment/ Examination Room		5.0
Therapy Centre		10.0
Operation Theatre		7.5
Surgical Viewing Gallery		3.0
Patient Accommodation	Intensive Care	20.0
	Room (max 2 beds)	10.0
	Ward	10.0
Laboratories		20.0
Pharmacy		20.0
Kitchen/Housekeeping		10.0
Laundry*(1)		10.0
Toilet/Locker/ Changing Room	non-simultaneous	—
Storage		30.0
Canteen		1.5
Restaurant		1.5
Shop		5.0

**Amended under
Supplement 3/2001
dated 18 May 2001**

Effective date 1 June 2001

*To refer to (1) (2) or (3) of notes at the end of Schedule 8

OCCUPANCY LOAD-	SCHEDULE 6
PURPOSE GROUP VI-	FACTORY
BUILDING TYPES	FACTORIES, FLATTED FACTORIES, INDUSTRIAL PLANTS

FUNCTIONAL SPACES	REMARKS	OCCUPANCY LOAD (m ² /person)	
Reception Area		3.0	
Lobby/Corridors	non-simultaneous	—	
Waiting Area/Visitors Lounge		3.0	
Admin Office		10.0	
Meeting/Seminar Room		1.5	
Library	Stack Area	10.0	
	Reading Area	5.0	
Workshop		10.0	Amended under Supplement 3/2001 dated 18 May 2001
Laboratories		5.0	
Exhibition		1.5	
Production Area*(2)		10.0	
Packing/Distribution Area		10.0	Effective date 1 June 2001
Material/Product/ General Storage	non-simultaneous	30.0 —	
Multi-purpose Area		1.5	
Staff Recreation Room	non-simultaneous	—	
Staff Rest Room	non-simultaneous	—	
Staff Canteen		1.5	
Toilets/Changing/Locker Room	non-simultaneous	—	
Sick Room	non-simultaneous	—	
Mechanical Plant Room		30.0	

*To refer to (1) (2) or (3) of notes at the end of Schedule 8

OCCUPANCY LOAD-	SCHEDULE 7.1
PURPOSE GROUP VII-	PLACES OF PUBLIC RESORT
BUILDING TYPES-	HOTELS, HOLIDAY RESORTS, BOARDING HOUSES, CONVENTION CENTRES, PRIVATE CLUBS

FUNCTIONAL SPACES	REMARKS	OCCUPANCY LOAD (m ² /person)	
Reception Area		3.0	
Lobby/Corridors	non-simultaneous	—	
Waiting Area/Visitors Lounge		3.0	
Atrium Floor/Concourse		3.0	
Hotel Bedroom	4 to a room		
Bar/Pub	Gross area	1.0	*
Discotheque	Gross area	1.0(including dine & dance area)	
Night Club	Gross area	1.5(including dine & dance area)	
Restaurant		1.5	
Exhibition/Multi-purpose Area		1.5	
Function/Ball Room		1.5	
Pre-function Room	non-simultaneous	—	
Business Centre		10.0	
Admin Office		10.0	
Conference Room		1.5	
Meeting/Seminar Room		1.5	
Library	Stack Area	10.0	
	Reading Area	5.0	
Shop		5.0	
Health Club/Centre*(3)		5.0	
Swimming Pool Deck		10.0	
Swimming Pool		—	
Squash Court	2 per court		
Staff Rest Room	non-simultaneous	—	
Staff Canteen		1.5	
Toilets/Changing/Locker Room	non-simultaneous	—	
Kitchen/Service Area		10.0	
Laundry*(1)		10.0	
Mechanical Plant Room		30.0	

*To refer to (1) (2) or (3) of notes at the end of Schedule 8

* **Amended under Supplement
3/2001 dated 18 May 2001**

Effective date 1 June 2001

OCCUPANCY LOAD-	SCHEDULE 7.8
PURPOSE GROUP VII-	PLACES OF PUBLIC RESORT
BUILDING TYPES-	RECREATIONAL BUILDINGS, AMUSEMENT CENTRES

FUNCTIONAL SPACES	REMARKS	OCCUPANCY LOAD (m ² /person)
Reception Area		3.0
Lobby/Corridors	non-simultaneous	—
Waiting Area/Visitors Lounge		3.0
Admin Office		10.0
Meeting/Seminar Room		1.5
Bowling Alley	exclude bowling lanes	1.0
Amusement Park	exclude machine areas	1.0
Billiards Room		5.0
Skating Rink	Rink Area	3.0
	Spectator Area	1.5
Discotheque	Gross area	1.0 (including dine & dance area)
Pub/Bar	Gross area	1.0
Karaoke Lounge	Gross Area	1.5 (including dine & dance area)
Night Club	Gross Area	1.5 (including dine & dance area)
Health Club/Centre*(3)		5.0
Restaurant		1.5
Cafeteria/Snack Bar		
		1.5
Fast Food Outlet		1.0
Kitchen/Service Area		10.0
Toilet/Changing Room	non-simultaneous	—
General Storage		30.0
Mechanical Plant Room		30.0

*To refer to (1) (2) or (3) of notes at the end of Schedule 8

* Amended under
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OCCUPANCY LOAD-	SCHEDULE 7.9
PURPOSE GROUP VII-	PLACES OF PUBLIC RESORT
BUILDING TYPES-	EATING HOUSES, RESTAURANTS, COFFEE SHOPS, HAWKER CENTRES, FAST FOOD OUTLETS

FUNCTIONAL SPACES	REMARKS	OCCUPANCY LOAD (m ² /person)
Reception Area		3.0
Lobby/Corridors	non-simultaneous	—
Waiting Area		3.0
Admin Office		10.0
Meeting/Seminar Room		1.5
Dining Area	Hawker Centres	1.5
	Fast Food Outlets	1.0
	Others	1.5
Bar/Pub	Gross area	1.0
Lounge		2.5
Kitchen/Service Area		10.0
Storage Area		30.0
Toilet/Changing Room	non-simultaneous	—
Staff Rest Room	non-simultaneous	—
Mechanical Plant Room		30.0

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OCCUPANCY LOAD-	SCHEDULE 7.10
PURPOSE GROUP VII-	PLACES OF PUBLIC RESORT
BUILDING TYPES-	BUS TERMINAL, TRAIN STATION, AIRPORT, FERRY TERMINAL

FUNCTIONAL SPACES	REMARKS	OCCUPANCY LOAD (m ² /person)	
Reception Area		3.0	
Lobby/Corridors	non-simultaneous	—	
Waiting Area/Visitors Lounge		3.0	
Concourse		3.0	
Admin Office		10.0	
Meeting/Seminar Room		1.5	
Ticketing Office		10.0	
Business Centre		10.0	
Passenger Arrival/ Departure Areas/Foyers	Bus Terminal Others	1.5 3.0	
Restaurant		1.5	
Cafeteria		1.5	
Fast Food Outlet		1.0	Amended under Supplement 3/2001 dated 18 May 2001
Kitchen/Service Area		10.0	
Shop		5.0	
Staff Rest Room	non-simultaneous	—	Effective date 1 June 2001
Storage Area		30.0	
Toilets/Changing Room	non-simultaneous	—	
Mechanical Plant Room		30.0	

OCCUPANCY LOAD-	SCHEDULE 8
PURPOSE GROUP VIII-	WAREHOUSE, GODOWNS, PUBLIC CAR PARK
BUILDING TYPES-	WAREHOUSE, GODOWNS, CAR PARKS

FUNCTIONAL SPACES	REMARKS	OCCUPANCY LOAD (m ² /person)
Reception Area		3.0
Lobby/Corridors	non-simultaneous	—
Waiting Area/Visitors Lounge		3.0
Admin Office		10.0
Meeting/Seminar Room		1.5
Packaging Area		10.0
Goods Storage		30.0
General Storage		30.0
Loading/Unloading Area	4 per Bay	
Staff Rest Room	non-simultaneous	—
Toilets/Changing Room	non-simultaneous	—
Staff Canteen		1.5
Kitchen/Service Area		10.0
Mechanical Plant Room		30.0

Note:

- a) Car Parking Areas - occupancy calculated on the basis of 30 m² per person.
- b) For building types not included in the above tables, occupancy load calculation shall be based on the figures established for buildings within the same purpose group, or as otherwise determined by the Relevant Authority.

*(1) Laundry Areas equipped with machine operation, occupancy may be calculated at 15.0 sq m per person.

*(2) Production Area whether automated or not, shall be calculated on the basis of **10.0m² per person**

*(3) Health/Fitness Centres include areas for weight training, aerobics, massage, sauna/steam bath and whirlpools.

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2.2.13 (c) Exception:

- (i) The omission of smoke stop lobby required under cl.2.2.13(b) to exit staircase of any building exceeding 4 storeys is allowed under the following situations, provided the door opening into the exit staircases shall be fire door of at least 1-hour fire resistance and fitted with automatic self-closing device to comply with the requirements of cl.3.9.2:
 - (a) where the internal exit staircase is provided with pressurization up to a habitable height of 24m in compliance with the requirements of Chapter 7;
 - (b) where an external exit staircase is constructed to comply with cl.1.2.29;
 - (c) where an external exit staircase of a building is located along its perimeter wall and provided with uninterrupted external ventilation openings having not less than 50% of the planal area of the staircase at each storey level;
 - (d) in an open-sided car park floor where cross-ventilation is provided. Under this situation, the fire door to the exit staircase can be ½-hour fire rated.
- (ii) The omission of smoke stop lobby to exit staircases shall not be allowed under the following situations : -
 - (a) where the building exceeds 4 storeys and belongs to Purpose Group III and VII;
 - (b) where the internal exit staircase, which is provided with pressurization, exceeds the habitable height of 24m;
 - (c) where the exit staircase is designated as fire fighting staircase adjacent to a fire lift as required in Chapter 6.

Omission of smoke stop lobby is allowed

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Omission of smoke stop lobby is not allowed

2.2.14 Smoke Free Approach to Exit Staircase in Basement Occupancy:

Smoke free approach in basement

- (v) exit doors opening into an external exit passageway shall have fire resistance for at least half an hour and fitted with automatic self-closing device.

(d) Ventilation

- (i) all internal exit passageways shall be naturally ventilated by fixed ventilation openings in an external wall, such ventilation openings being not less than 15 per cent of the floor area of the exit passageway, and
- (ii) internal exit passageways that cannot be naturally ventilated shall be mechanically ventilated to comply with the requirements in Chapter 7.

Ventilation

2.3.3 Exit Staircase:

(a) Internal Exit Staircase

- (i) an internal exit staircase which serves as the required exit of the building shall be enclosed with construction complying with the provisions of Cl. 3.8, and

Internal exit staircase

Note :

Subclause 2.3.3(a)(ii) has been deleted

Amended under Supplement 3/2001 dated 18 May 2001

Effective date 1 June 2001

(ii) there shall be no unprotected openings of occupancy area within 1.5m horizontally or within 3m vertically below any part of the ventilation openings located in the external wall of the internal exit staircase.	Unprotected openings Note : Subclause 2.3.3(a)(ii) has been deleted
	Amended under Supplement 3/2001 dated 18 May 2001
	Effective date 1 June 2001
(b) External Exit Staircase	External exit staircase
(i) external exit staircase may be used as required exit in lieu of internal exit staircase provided it complies with the requirements of exit staircase, except for enclosure of an internal staircase, and	
(ii) there shall be no unprotected openings within 3 m horizontally or within 3 m vertically below, or adjacent or facing (unless there is adequate separation complying with cl.3.5) any part of the external exit staircase; and	Amended under Supplement 3/2001 dated 18 May 2001
(iii) the external exit staircase shall be located so as to lead directly to a street or open space with direct access to street.	Effective date 1 June 2001
(c) All exit staircases shall discharge at ground level directly into a safe exterior open space. However, in sprinkler protected building, maximum 50% of the total building exits may be allowed to discharge directly to the ground level circulation space subject to the following:	Discharge
(i) The discharge point of the exit staircase shall be at a location in the circulation space at ground level within sight of and with direct access to a safe exterior open space; and	
(ii) The maximum distance between the discharge point of an exit staircase and the exterior open space shall not exceed 10m.	

2.3.4 Scissor Exit Staircase

- (a) Where two separate internal exit staircases are contained within the same enclosure, each exit staircase shall be separated from the other by non-combustible construction having fire resistance for a minimum period equal to that required for the enclosure, and Scissor exit staircase
- (b) Such scissor exit staircases shall comply with all applicable provisions for exit staircase, and
- (c) Door opening into scissor exit staircases shall be at least 7m travel distance from each other.

**Amended
under
Supplement
3/2001 dated
18 May 2001**
**Effective date
1 June 2001**

2.3.5 Basement Exit Staircase

- (a) Any exit staircase which serves a basement storey of a building shall comply with all the applicable provisions for exit staircase, and Basement exit staircase
- (b) Such exit staircase shall not be made continuous with any other exit staircase which serves a non-basement storey of the building, and
- (c) Basement exit staircases which are vertically aligned with the exit staircases of non-basement storeys shall be separated from such other exit staircases by construction having fire resistance for a minimum period equal to that required for the enclosure. Separate protected shaft
- (d) Where upper storey staircase is allowed by the Relevant Authority to be continuous with that serving the basement which is naturally ventilated, the following shall be complied with: Upper storey staircase continues into basement

2.3.9	<p>(i) Any exit door or exit access door serving spaces of assembly/mass occupation, such as auditorium, concert hall, theatre, assembly hall, exhibition hall, cinema, etc which has to be kept shut and fastened while the building or part of the building is occupied shall be fitted with ‘panic bolt’ and appropriately marked ‘Push Bar To Open’ in letters not less than 1000mm high to enable the door to be quickly opened when a pressure on the bar is applied in the direction of travel.</p>	<p>New subclause added under supplement 3/2001 dated 18 May 2001</p> <p>Effective date 1 June 2001</p>
(j)	<p>Locking of staircase and smoke stop/fire lift lobby doors</p> <p>One way locking device is allowed to be provided to doors of exit staircase, smoke stop/fire lift lobby in the following situations, provided only one-way locking device is used, eg panic bolt or thumb turn locking device :</p> <ul style="list-style-type: none"> (i) exit door between staircase shaft and occupancy area; and (ii) exit access door between smoke/fire fighting lobby and occupancy area; and (iii) exit door between staircase shaft and smoke stop lobby; and (iv) exit door between staircase shaft and circulation area; and (v) exit access door between smoke stop/fire fighting lobby and circulation area. <p>For selected floors under subclause 2.3.9(i), the doors of the fire fighting/exit staircase and smoke stop/fire fighting lobby shall not fitted with any locking device to allow for re-entry from the staircase to the interior of the building.</p>	<p>New subclause added under supplement 3/2001 dated 18 May 2001</p> <p>Effective date 1 June 2001</p>
(k)	<p>Where access-control is provided to exit door using smart card locking device, magnetic bar and electro-mechanical locking device : -</p> <ul style="list-style-type: none"> (i) The activation of the building fire alarm or sprinkler system shall automatically unlock the door. It shall remain unlocked until the building fire alarm system system has been manually reset; and 	<p>New subclause added under supplement 3/ 2001 dated 18 May 2001</p> <p>Effective date 1 June 2001</p>

- (ii) The door shall be arranged to unlock from a manual release device located within the occupancy space, 1200mm above the floor and within 1.5m of the exit door jamb. The manual override device shall be readily accessible and clearly identified by a sign that reads “Emergency Door Release”. The mechanism to unlock the door shall be fail-safe type.
 - (iii) Where doors opening into passenger lift lobby are to be provided with access-control and would be locked after normal operation hours, the lobby shall be designed to have direct access to at least one exit staircase to prevent any occupant from being trapped in the lobby when the lifts are recalled at 1st storey or other designated floor during fire emergency or building’s power failure. Alternatively, a two-way communication system shall be available inside the lift lobby for use by trapped occupants to call for help. The two-way communication system shall be linked to the fire command centre and/or building control room which shall be manned 24 hours.
- (l) Staircase re-entry
- (i) Every exit staircase enclosure serving more than 7 storeys of non-residential building, excluding buildings of detention and correctional occupancies, shall allow re-entry from the staircase enclosure to the interior of the building. There shall be at least 1 level where it is possible to re-entry the interior of the building from the staircase enclosure.
 - (ii) There shall be not more than 6 intervening floors between floors where it is possible to leave the staircase enclosure, either re-entry into the building or exit to the exterior space at grade level or to another building. This would ensure that an occupant need not travel more than 3 floors up or down the staircase to re-entry into or exit from the building.
 - (iii) Where re-entry is provided from the staircase enclosure, it shall enter into a common corridor that is connected directly to at least one other exit staircase.

**New
subclause
added under
supplement
3/2001 dated
18 May 2001**

**Effective date
1 June 2001**

- (iv) Staircase doors permitting re-entry into the building, shall be identified with a signage “Re-entry door” of min. 50mm lettering height on the staircase side of the staircase door.

2.4

RESIDENTIAL OCCUPANCY

- 2.4.1 Means of escape for a building or a separate part of a building of single occupancy of purpose group I may be provided via access staircases, and exit staircase under the provision of cl.2.3 is not required.

Residential
buildings of
purpose group I
Amended under
Supplement
5/99 dated
17 Dec 99

3.4 TESTS OF FIRE RESISTANCE

3.4.1 Performance for the fire resistance of elements of structure, doors and other forms of construction shall be determined by reference to the methods specified in BS 476:Part 20 to 23, which specify tests for stability, integrity and insulation. Fire resistance

Specific requirements for each element in terms of the three performance criteria of stability, integrity and insulation are given in Table 3.4A.

3.4.2 An element of structure, door or other part of a building shall be deemed to have the requisite fire resistance if - "Deem to satisfy" provisions

(a) It is constructed to the same specification as that of a specimen exposed to test by fire in accordance with the method and procedure under BS 476: Part 20 to 23, and satisfied the requirements of that test for the three performance criteria of stability, integrity and insulation for not less than the specified period , or

(b) In the case of a wall, beam, column, stanchion or floor to which Appendix A to Cl. 3.4 relates, it is constructed in accordance with one of the specification set out in that Appendix and the notional period of fire resistance given in that Appendix as being appropriate to that type of construction and other relevant factors is not less than the specified period.

3.4.3 The use of timber floors shall not be allowed, except:

(a) for an attic in buildings under purpose groups I and II; and

Timber floors
Amended under Supplement 3/2001 dated 18 May 2001
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- 3.8.8 (b) (iii) Drywall shall meet the criteria, in terms of impact and deflection performance, when subject to the tests of BS 5588 Pt 5 Appendix A and BS 5234 Pt 2; and
- (iv) Drywall shall meet the criteria, in terms of water absorption and bending strength performance, when subject to the test of BS 1230 Pt 1 (for gypsum plaster board) or ISO 1896 (for calcium silicate or cement board); and
- (v) Drywall shall meet the criteria of Cyclic Loading and Dynamic test as specified under Cl. 3.3 of Building Code of Australia Specification C 1.8.
- (c) Private lifts that are provided for the exclusive use of occupants in residential units under purpose group II buildings shall comply with the following requirements :
- (i) Smoke detectors shall be provided at the lift landing area. The activation of any of the smoke detectors at the lift landing area shall cause the lift to home to the designated floor; and
- (ii) Emergency power supply from a generating plant shall be provided to home the lift to the designated floor when there is a power failure in the building; and
- (iii) The lift shall not be permitted to double-up as a fire lift; and
- (iv) Private lifts shall comply with SS CP 2.

Private Lift
Amended under
Supplement
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1 June 2001