

**SINGAPORE CIVIL DEFENCE FORCE
CENTRAL ENFORCEMENT DEPARTMENT**



HQ SINGAPORE CIVIL DEFENCE FORCE
91 Ubi Ave 4 Singapore 408827 Fax : 6848 1492
Website : <http://www.scdf.gov.sg>

**TEMPORARY CHANGE OF USE
MUTLI-STOREY TEMPORARY STRUCTURES
FIRE SAFETY CONDITIONS**

The approval is granted subject to the following conditions which are adapted from the requirements given in the Fire Code.

Certification

- 1 Qualified Person (QP) certification is required on the layout/floor plans. To include the calculations of designed occupant load, travel distance and exit capacity.
- 2 QP shall also certify on the structural safety of the structures.

Layout Planning

- 3 The maximum height of the structure must not exceed 10m or 3 storeys.
- 4 The maximum floor area (total) of the structure must not exceed 2,000 m².
- 6 The structures are to be separated at least 3m away from building facades.
- 7 Calculation on the occupant load (OL) shall be based on a minimum of 1.5 m² per person.
- 8 All sides of the timber floor decking / stage / platform shall be properly sealed with no storage of goods / materials / electrical services beneath them.
- 9 Generators are to be sited at least 3m away from buildings and structures.

Means of Escape

- 10 A minimum of 2 exits must be provided and must be spaced apart not less than half the maximum diagonal length of the structure.
- 11 Each exit shall be of minimum 1m width.
- 12 The exit capacity is based on :
 - a. maximum of 100 persons per unit (0.5 m) width of exit directly discharge to external
 - b. maximum of 80 persons per unit (0.5 m) width of exit discharge to corridor.
 - c. maximum of 60 persons per unit (0.5 m) width of exit discharge via staircases.
- 13 External corridors and staircases for escape purposes are preferred. Minimum width of such staircases and corridors is 1.2 m. External staircases should not be enclosed. A continuous handrail at a height of 1m from the treads and landings of the staircase is to be installed.
- 14 Minimum width of internal escape corridors and staircases is 1.2 m.
- 15 The maximum travel distance from any point within the structure to the nearest exit at the external edge of the structure at the ground level, shall not exceed 45m.
- 16 A 2-way escape must be provided. Exit points must be remote from each other.
- 17 All escape routes / passageways must be free of obstruction. Exit points must lead directly to open exterior areas.
- 18 All designated exits points shall be provided with illuminated "Exit" signs incorporated with battery operated standby power supply. Directional exit signs are to be installed wherever necessary.
- 19 The structure is to be provided with sufficient numbers of self-contained emergency lighting.

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Material

- 20 Enclosed structures / tents shall be of material having a minimum surface flame spread class 2 rating (to be supported by approved certification laboratory/company. Conformity to test standards - BS 476 part 4 & 7, NFPA 701, EN 13501).

Seating Layout

- 21 The aisle width shall be at least 1.2m.
22 The maximum number of chairs in a row shall not exceed 12 for aisle on one side and 28 for aisle on two sides.

Fire Fighting Provisions

- 23 Enclosed structures / tents shall not be located within 1.5 m of any fire hydrant, breeching inlets of fire fighting rising mains or fire exit staircases of nearby buildings.
24 Portable fire extinguisher (PSB approved type) shall be provided within the tents at every 15 m.
25 At least 2 fire extinguishers (PSB approved type) shall be provided in the vicinity of the electrical generators.
26 50 kg portable fire extinguisher with trolley (PSB approved type) shall be provided for food and beverage (F&B) activities within the structures at every 30 m.

Other Fire Safety Precautions

- 27 No activity shall be carried out on the fire engine access way / fire engine hard standing (parking space).
28 Any activity involving the use LPG or flammable liquids / gases is not permitted.
29 "Open-flame" cooking is not allowed except where solid fuel burners are used to warm food that has already been prepared and cooked.
30 Electrical fixtures /wiring are firmly secured away from public's path.
31 The organizer shall provide a team of personnel (CERT) for emergency evacuation and for fighting incipient fires on site.
32 To provide Emergency Response Plan (ERP) for the event.
33 The duration of the event is limited to at most 2 months.