

**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
INFLATABLE STRUCTURES / TENTS
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 Inflatable structures/tents are to be separated at least 3m away from building facades.
- 4 Calculation on the occupant load (OL), i.e. the maximum number people permitted within the structures, shall be based on a minimum of 1 m² per person.
- 5 Row of stalls within the tent shall not exceed 15m in length and 6 m in width.
- 6 Passageway of at least 1.2 m shall be maintained between rows of stalls.
- 7 Generators are to be sited at least 3m away from buildings and tents / stalls.
- 8 Adequate and continuous electrical supply for the air-blower shall be provided.

Means of Escape

- 9 A minimum of 2 exits must be provided if the floor area exceeds 75m² and must be spaced apart not less than half the maximum diagonal length of the structure.
- 10 Each exit shall be of minimum 1m width.
- 11 The exit capacity is based on a maximum of 60 persons per metre width of exit.
- 12 Minimum width of internal escape corridors and staircases is 1.2 m.
- 13 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 30m.
- 14 A 2-way escape must be provided. Exit points must be remote from each other.
- 15 All escape routes / passageways must be free of obstruction. Exit points must lead directly to open exterior areas.
- 16 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 (to comply with the requirements of CP 19).
- 17 The inflatable structures/tents is to be provided with sufficient numbers of self-contained emergency lighting (to comply with CP 19).
- 18 The inflatable structures/tents shall be supported by steel frames or trusses to prevent it from collapsing.
- 19 The organiser shall provide barricades at the perimeter of the inflatable structures/tents.
- 20 For air-inflated structures / tents, an automatic detection system must be installed to sound an alarm when deflation of the structure / tent is detected.

Material

- 21 Inflatable structures / tents shall be of fire retardant material that shall achieve at least the BS 476: Part 7, Class 2 standard on surface flame spread test or equivalent (test reports shall be certified by PSB or approved certification companies)

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Seating Layout

- 22 The aisle width shall be at least 1.2m.
- 23 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

- 24 Inflatable 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.
- 25 Portable fire extinguisher (PSB approved type) shall be provided within the tents at every 15 m.
- 26 At least 2 fire extinguishers (PSB approved type) shall be provided in the vicinity of the electrical generators.
- 27 AC units with return-air, must be fitted with smoke detectors.

Other Fire Safety Precautions

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