

6.7.3 The system shall comply with the following requirements:

- (a) Supply air shall be drawn directly from the external and its intake point shall not be less than 5 m from any exhaust discharge openings. Exhaust discharge shall also be direct to the external and shall not be less than 5 m from any air intake openings.
- (b) Where the corresponding ducts run outside the fire command centre, they shall either be enclosed in a structure or be constructed to give at least the same fire rating as the room which they serve or that of the room through which they traverse, whichever is higher. Where the duct risers are required to be enclosed in a masonry shaft, they shall be compartmentalised from the rest of the shaft space containing other ducts or services installations.
- (c) No fire damper shall be fitted in either the supply or the exhaust duct required under this clause.
- (d) Duct serving areas other than the fire command centre shall not pass through the room.

6.8 Rooms involving use of flammable and explosive substances

6.8.1 Mechanical ventilation system where required for rooms in which there is use of flammable and explosive substances shall be independent from those serving other parts of the building.

6.8.2 The ventilation system shall consist of exhaust and supply part with a rate of 20 air changes per hour or any other rates acceptable to the relevant authority.

6.8.3 Design

6.8.3.1 The exhaust shall be direct to the external and shall not be less than 5 m from any air intake openings.

6.8.3.2 Where such ducts run outside the room they shall either be enclosed in a structure or be constructed to give at least the same fire rating as the room which they serve or that of the room through which they traverse, whichever is higher. The rating shall apply to fire exposure from both the internal and external part of the duct or structure. Where the duct risers are required to be enclosed in a masonry shaft, they shall be compartmentalized from the rest of the shaft space containing other ducts or services installations.

6.8.3.3 No fire damper shall be fitted in either the supply or the exhaust duct.

6.8.3.4 Ducts serving other areas shall not pass through rooms involving use of flammable and explosive substances.

6.9 Pressurisation system for exit staircases

6.9.1 General

6.9.1.1 Internal exit staircases without provision for natural ventilation shall be pressurised to comply with the requirements in the Code of Practice for Fire Precautions in Buildings and this code.

6.9.1.2 In a building comprising more than 4 basement storeys, exit staircases connected to the fire fighting lobby in the basement storeys shall be pressurised to comply with the requirements in the Code of Practice for Fire Precautions in Buildings and this code.

6.9.1.3 Pressurisation may be extended to the smoke-stop lobby provided the pressurisation level complies with Clause 6.9.2.