

3.9. Smoke Control System Requirements at Various Occupancies

3.9.1. Various locations and occupancies shall have smoke control systems in accordance with **Table 10.27.**

Table 10.27.: Smoke Control Requirements at Various Occupancies

LOCATION	SYSTEM REQUIREMENTS
1. HOSPITAL	<ul style="list-style-type: none"> i. Hospitals shall have corridor and open spaces smoke management systems in accordance with Section 2.8. ii. Every hospital floor shall have a minimum of two smoke zones. iii. Each such smoke zone shall be separated by smoke compartments and smoke doors. iv. The activation of the corridor and open spaces smoke management system shall be by the sprinkler activation or cross zoned smoke detection activation in that particular zone. v. A HVAC system shall be permitted to be in operation in zones other than the fire zone. vi. Stairs shall be pressurized in accordance with Section 2.6.
2. SCHOOL	<p><u>1. ENCLOSED CORRIDORS</u></p> <ul style="list-style-type: none"> i. Enclosed corridors and enclosed circulation spaces shall be provided with a smoke management system in accordance with Section 2.8., ii. A HVAC system shall be permitted to be in operation in zones other than the fire zone. iii. Where exterior façade or roof is accessible for exit corridors and circulation spaces, a natural ventilation system, in accordance with Section 2.15., shall be permitted. <p><u>2. STAIRS</u></p> <ul style="list-style-type: none"> i. The stair pressurization is not mandatory if building is not Highrise. Where ventilation or pressurization for the stair is required, a pressurization using a vestibule in accordance with Section 2.16. shall be permitted. <p><u>3. ENCLOSED SPORTS HALL AND AUDITORIUMS WITH LEGITIMATE STAGE OR HAVING AREA MORE THAN 2000 m²</u></p> <ul style="list-style-type: none"> i. Dedicated smoke purging system in accordance with Section 2.13., shall be provided. ii. Where exterior façade or roof is accessible and justified by an engineering analysis, a natural ventilation system, in accordance with either Section 2.11. OR Section 2.15., shall be permitted.
3. BUSINESS	<p><u>1. OPEN PLAN OFFICE</u></p> <ul style="list-style-type: none"> i. Open plan office spaces shall not be required to have smoke control systems. However, where exterior façade is accessible, an automatic openable ventilation panel system in accordance with Section 2.15. shall be provided for smoke clearance. ii. Such windows shall be clearly marked as “smoke clearance openable windows”. iii. However, stairs of open plan offices in highrise buildings shall be pressurized in accordance with Section 2.6. iv. Where exterior façade or roof is accessible for exit corridors and circulation spaces, a natural ventilation system, in accordance with Section 2.15., shall be permitted.