

**Table 10.27.: Factories and Warehouse Smoke Extract System Requirements**

LOCATION	SYSTEM REQUIREMENTS
4. ENCLOSED CORRIDORS IN LOWRISE AND MIDRISE BUILDINGS, HAVING A CIRCULATION LENGTH GREATER THAN 60 M	i. Enclosed corridors of lowrise and midrise buildings, having a circulation length of in excess of 60 m such as in covered mercantile spaces, staff accommodations, labour accommodations, residential buildings, office buildings and where exterior façade or roof is accessible, natural ventilation in accordance with <b>Section 2.15</b> shall be provided. However, fire rating of the walls shall be ensured.
5. FIRE PUMP ROOM	i. A dedicated mechanical ventilation system in accordance with <b>Section 2.17.</b> , shall be provided.
6. EMERGENCY COMMAND CENTER	ii. Rooms shall be temperature controlled. Dedicated AHU are recommended to be provided to maintain the temperatures in these rooms to as recommended by the equipment and control panel manufacturers.
7. DIESEL GENERATOR ROOM	
8. CINEMAS	i. A dedicated mechanical smoke purge system in accordance with <b>Section 2.13.</b> , shall be provided. ii. The smoke purge system shall be permitted to provide 6 air changes per hour.
9. EXHIBITION CENTER 10. ASSEMBLY HALLS 11. SPORTS HALLS 12. AUDITORIUM 13. INDOOR STADIUM HAVING AREA MORE THAN 2000 m <sup>2</sup>	i. A dedicated mechanical smoke purge system in accordance with <b>Section 2.13.</b> , shall be provided. ii. The smoke purge system shall be permitted to provide 6 air changes per hour. iii. Where exterior façade or roof is accessible and justified by an engineering analysis, a natural ventilation system, in accordance with either <b>Section 2.11.</b> OR <b>Section 2.15.</b> , shall be permitted.
14. THEATERS	i. A smoke management system in accordance with <b>Section 2.9.</b> shall be provided.
15. ATRIUM	i. The atrium shall be provided with an atrium smoke management system in accordance with <b>Section 2.7.</b> ii. Where exterior façade or roof is accessible and justified by engineering analysis, a natural ventilation system, in accordance with <b>Section 2.15.</b> , shall be permitted.
16. COOKING OPERATIONS	i. All independent commercial kitchens shall be provided with ventilation systems for cooking operations in accordance with <b>Section 2.18.</b> ii. All restaurant kitchens shall be provided with ventilation systems for cooking operations in accordance with <b>Section 2.18.</b> iii. All Kitchens located in Malls, Hospitals and Highrise buildings shall be provided with ventilation systems for cooking operations in accordance with <b>Section 2.18.</b>