

### 3.8. Factories and Warehouses

**3.8.1.** Factories and Warehouses shall be provided with smoke control systems in accordance with **Table 10.26.**

**Table 10.26.: Factories and Warehouse Smoke Extract System Requirements**

LOCATION	SYSTEM REQUIREMENTS
<b>1. FACTORIES AND WAREHOUSES</b>  <b>ROOF SMOKE EXTRACTION FAN SYSTEMS OR ROOF VENTING SYSTEMS OR MECHANICAL DUCTED EXTRACTION SYSTEMS THAT DO NOT HAVE BACK-UP POWER FOR THEIR OPERATION DURING EMERGENCIES SHALL NOT BE ACCEPTABLE</b>	<p><b>1. IF TOTAL BUILT-UP GROUND FLOOR AREA IS LESS THAN 230 m<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>i. Roof Ventilation system in accordance with <b>Section 2.11.</b> shall be provided.</li> <li>ii. Fresh air from the unit entrances and openings shall be sufficient for the make-up or replacement air.</li> </ul> <p><b>2. IF TOTAL BUILT-UP GROUND FLOOR AREA IS 230 m<sup>2</sup> - 900 m<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>i. Roof Ventilation system in accordance with <b>Section 2.11.</b> shall be provided.</li> <li>ii. In addition to the fresh air from the unit entrances and openings, make-up air fans shall be provided. <b>OR</b> the sufficient replacement air opening area to the exterior of the perimeter of the facility shall be provided.</li> </ul> <p><b>3. IF TOTAL BUILT-UP GROUND FLOOR AREA IS 901 m<sup>2</sup> - 2000 m<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>i. Roof Ventilation system in accordance with <b>Section 2.11.</b> shall be provided. <b>OR</b></li> <li>ii. Mechanical roof exhaust fans in accordance with <b>Section 2.12.</b> shall be provided.</li> <li>iii. In addition to the fresh air from the unit entrances and openings, make-up air fans shall be provided. <b>OR</b> the sufficient replacement air opening area to the exterior of the perimeter of the facility shall be provided.</li> </ul> <p><b>4. IF TOTAL BUILT-UP GROUND FLOOR AREA IS MORE THAN 2000 m<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>i. Roof Ventilation system in accordance with <b>Section 2.11.</b> shall be acceptable where justified by the engineering analysis of wind and temperature effects on the proposed system. <b>OR</b></li> <li>ii. Mechanical roof exhaust fans in accordance with <b>Section 2.12.</b> shall be provided.</li> <li>iii. In addition to the fresh air from the unit entrances and openings, make-up air fans shall be provided. <b>OR</b> the sufficient replacement air opening area to the exterior of the perimeter of the facility shall be provided.</li> </ul>
<b>2. ROOMS STORING HAZARDOUS AND FLAMMABLE CHEMICALS</b>	<ul style="list-style-type: none"> <li>i. A ventilation system shall be provided in accordance with <b>Section 2.20.</b></li> </ul>