

#### 4.4. Midrise Building Fire Protection Systems

- 4.4.2.** Midrise buildings (Residential, Labour Accommodation, Staff Accommodation, Hostels, Business and Animal Housing) having a building height from more than 15 m to less than 23 m shall be provided with Fire protection Systems in compliance with **Table 9.20.b.**, and Auxiliary Rooms Fire Protection Systems as per **Table 9.30.**

Table 9.20.b. : Midrise Building Fire Protection Systems		
PRE DOMINANT OCCUPANCY	SYSTEM REQUIREMENTS	COMBINED FIRE PUMP SET AND FIRE WATER TANK CAPACITIES
<b>A. RESIDENTIAL GROUP A, B, C.</b>  <b>(APARTMENTS, LABOR ACCOMMODATION, STAFF ACCOMMODATION, HOSTEL )</b>  <b>B. HEALTHCARE GROUP B, C.</b>  <b>C. MERCANTILE GROUP C (KIOSKS)</b>  <b>D. BUSINESS GROUP A, B, C.</b>  <b>E. ANIMAL HOUSING GROUP A, B, C.</b>	<b>1. IF BUILT-UP GROUND FLOOR AREA IS UP TO 900 m<sup>2</sup></b>  i. The dry riser + Hose Reel system shall be provided throughout the building as per <b>Section 3.2. and Section 3.3.</b> ii. Dry risers shall be interconnected at the highest level.	<b>1. IF BUILT-UP GROUND FLOOR AREA IS UP TO 900 m<sup>2</sup></b>  iii. The capacity of the fire pump set shall be 50 gpm at a pressure as required to satisfy 4.5 bar at the most remote Hose valve. iv. The water tank shall have capacity of 45 minutes of operation, complete with low water level detection, dedicated direct breaching inlet for refilling and instantaneous refilling arrangement for utility water supply.
	<b>2. IF BUILT-UP GROUND FLOOR AREA IS 901 m<sup>2</sup> TO 3600 m<sup>2</sup></b>  i. Sprinklers shall be provided throughout the building including base-ments and podiums (open as well as closed) as per <b>Section 3.5.</b> ii. Auxiliary rooms and various areas of the building shall be protected as per <b>Table 9.30.</b> iii. The dry riser + hose reel system shall be provided throughout the building as per <b>Section 3.2. and Section 3.3.</b> iv. Dry risers shall be interconnected at the highest level.	<b>2. IF BUILT-UP GROUND FLOOR AREA IS 901 m<sup>2</sup> TO 3600 m<sup>2</sup></b>  v. The capacity of the fire pump set shall be 300 gpm at pressure as required to satisfy 4.5 bar at the most remote Hose reel. vi. Water tank shall have capacity of 45 minutes of operation, complete with low water level detection, dedicated direct breaching inlet for refilling and instantaneous refilling arrangement for utility water supply.
	<b>3. IF BUILT-UP GROUND FLOOR AREA IS MORE THAN 3600 m<sup>2</sup></b>  i. Sprinklers shall be provided throughout the building including base-ments and podiums (open as well as closed) as per <b>Section 3.5.</b> ii. A wet riser System shall be provided throughout the building as per <b>Section 3.4.</b> iii. Wet risers shall be interconnected at the highest level. iv. Auxiliary rooms and various areas of the building shall be protected as per <b>Table 9.30.</b>	<b>3. IF BUILT-UP GROUND FLOOR AREA IS MORE THAN 3600 m<sup>2</sup></b>  v. Capacity of the fire pump set shall be 750 gpm if there are 2 standpipes, 1000 gpm if there are more than 2 standpipes at pressure as required to satisfy 6.9 bar at the most remote Landing valve. vi. Water tank shall have capacity of 45 minutes of operation, complete with low water level detection, dedicated direct breaching inlet for refilling and instantaneous refilling arrangement for utility water supply.