

Table 9.27.: Storage, Warehouse and Industrial Fire Protection Systems		
OCCUPANCY	SYSTEM REQUIREMENTS	COMBINED FIRE PUMP SET AND FIRE WATER TANK CAPACITIES
Q. AIRCRAFT HANGERS	 GROUP I AIRCRAFT HANGERS (Access door height over 8.5 m/A single fire area is in excess of 3716 m²) A foam water deluge system shall be provided for the hanger as per Section 3.9 and Table 9.11. The foam discharge density shall be a minimum of 0.16 gpm/ft² The area of operation under a single foam water deluge system shall not exceed 1394 m² (15,000ft²). The maximum distance between sprinklers/open discharge devices either on branch line or between branch line shall not exceed 3.7 m. If the open door of the hanger interferes in the intended discharge pattern, additional sprinkler/open dis- 	I. GROUP I AIRCRAFT HANGERS (Access door height over 8.5 m/A single fire area is in excess of 3716 m²) xii. The capacity of the fire pump set shall be 3000 gpm at a pressure as required to satisfy 6.9 bar at the most remote yard hydrant outlet valve. However, the fire pump capacity might increase depending on the zone and fire area considerations which are dependent on the aircraft size. xiii. The water tank shall have a capacity of 60 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.
	charge devices heads shall be installed near the door. vi. Sprinklers/open discharge devices of different orifice sizes and plates shall not be used. vii. A foam water hand hose system shall be installed throughout the hanger as per Table 9.11.13. with design densities as appropriate as per Table 9.11.C. viii. Each hand hose connection shall be a minimum of 38 mm (11/2 in.) in size and fitted with a control valve. The hose shall be of a diameter to provide a minimum flow of 60 gpm. ix. Standard Sprinklers shall be provided at office, tool rooms and non-service and non aircraft storage area as per Section 3.5. x. Yard Fire Hydrants shall be provided as per Section 3.11., in a loop to cover the entire hanger or group of hangers. xi. A dry riser, wet riser and hose Reel system shall not be required.	xiv. The foam concentrate shall be for a minimum of 10 minute duration.

