

Table 9.7: Automatic Sprinkler System Requirements

ITEMS	REQUIREMENTS
13. DESIGN DENSITY	<ul style="list-style-type: none"> i. The water supply requirement for sprinklers only shall be calculated from the density/area curves shown in Figure 9.10. ii. The hand line hose stream water demand shall be added to the sprinkler water demand according to the type of proposed fire fighting hose system based on the occupancy classification. iii. The calculations shall satisfy any single point on the appropriate density/area curve. iv. The design Density based on the Hazard categories and Density—Area curve on a single design point shall be as per Table 9.7.B.

Table 9.7.B.: Design Densities based on Occupancy Hazard

HAZARD	DESIGN DENSITY (mm/min) gpm/ft ²	AREA OF OPERATION (m ²) Ft ²	WATER DEMAND ONLY FOR SPRINKLERS gpm
1. Light Hazard	(4.1) 0.10	(139) 1500	150
2. Ordinary 1 Hazard	(6.1) 0.15	(139) 1500	225
3. Ordinary 2 Hazard	(8.1) 0.20	(139) 1500	300
4. Extra Hazard Group 1	(12.2) 0.30	(232) 2500	750
5. Extra Hazard Group 2	(16.3) 0.40	(232) 2500	1000

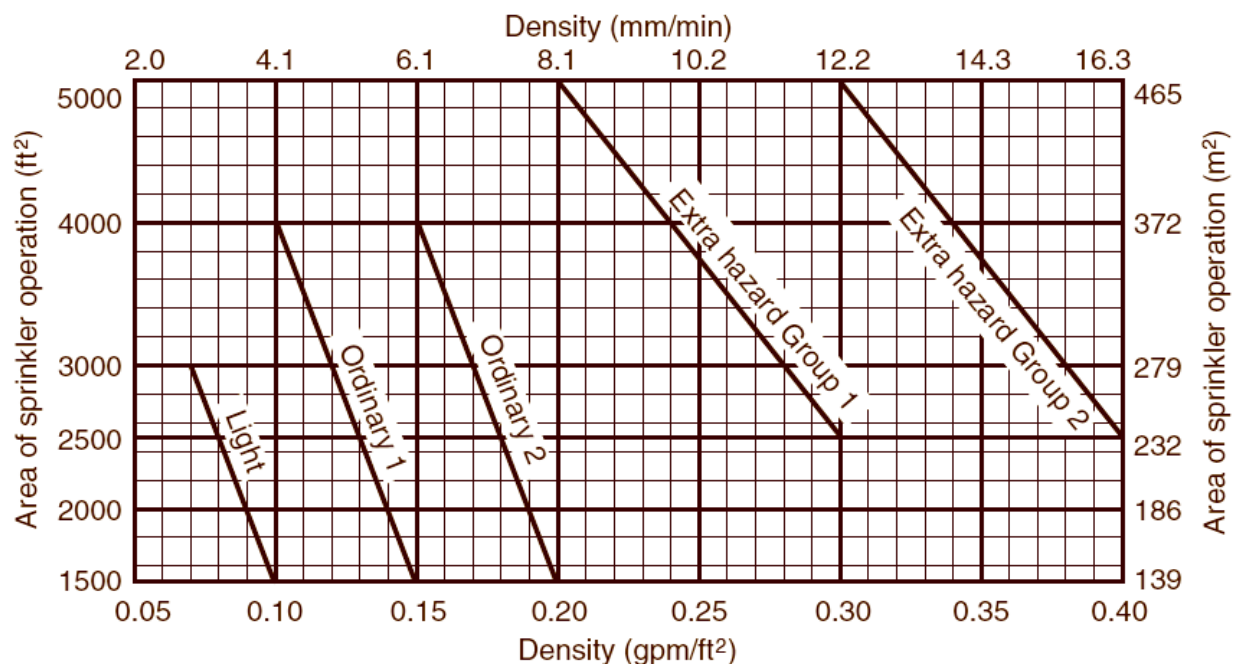


Figure 9.10.: Density– Area Curves