Table 9.7: Automatic Sprinkler System Requirements

ITEMS	REQUIREMENTS
31.B. DESIGN CRITERIA BASED ON CHARTS	**1. GENERAL NOTES FOR SPRINKLER DESIGN REQUIREMENTS** i. Sprinkler design for various storage materials and storage arrangement shall be as per the tables **Table 9.7.G., Table 9.7.H., Table 9.7.I., Table 9.7.J., Table 9.7.K., Table 9.7.L., Table 9.7.M., Table 9.7.N., Table 9.7.O., Table 9.7.P., Table 9.7.Q., Table 9.7.R., Table 9.7.S., Table 9.7.T., Table 9.7.U., Table 9.7.V., Table 9.7.W., Table 9.7.X., Table 9.7.Y., Table 9.7.Z., Table 9.7.AA., Table 9.7.BB., Table 9.7.CC., Table 9.7.DD., Table 9.7.EE., Table 9.7.FF.,** and **Table 9.7.GGG.** ii. Pump capacities based on the storage materials, storage height and storage arrangement shall be as per **Table 9.7.G., Table 9.7.H., Table 9.7.I., Table 9.7.J., Table 9.7.K., Table 9.7.L., Table 9.7.M., Table 9.7.N., Table 9.7.O., Table 9.7.P., Table 9.7.Q., Table 9.7.R., Table 9.7.S., Table 9.7.T., Table 9.7.U., Table 9.7.V., Table 9.7.W., Table 9.7.X., Table 9.7.Y., Table 9.7.Z., Table 9.7.AA., Table 9.7.BB., Table 9.7.CC., Table 9.7.DD., Table 9.7.EE., Table 9.7.FF.,** and **Table 9.7.GGG.** iii. The pump capacity indicated in these tables is the duty point (primary rating point) of the pump. The fire pump design point and the head shall be selected based on the hydraulic calculation and fire pump characteristic curve inline with NFPA 20. iv. All sprinkler design densities are single point design criteria taken from NFPA 13 tables. v. The proposed pump capacities in these tables are rounded to the average and nearest capacities that are commercially available, listed and internationally listed and approved. vi. Water Tank capacities shall be as per **Section 4.** of this chapter. vii. The number of design sprinklers considered for ESFR type sprinkler protection shall be 12. viii. The ceiling sprinkler design density for an aisle width between 1.2 m. and 2.4 m. shall be respectively determined by the linear interpolation of their densities. ix. The in-Rack Sprinkler demand shall be calculated for the 8 remotest sprinkler. The in-rack Sprinkler minimum K factor shall be 5.6 and minimum in-rack sprinkler pressure shall be 1 Bar.