Table 9.7: Automatic Sprinkler System Requirements

ITEMS	REQUIREMENTS
43. DESIGN CRITERIA OF CMSA AND NOMINAL K-FACTOR FOR CLASS I TO IV, STORED IN SINGLE, DOUBLE OR MULTIPLE RACKS TO A HEIGHT OF 7.6 M.	i. The automatic Sprinkler Design criteria of CMSA (Control Mode Specific Application) and Nominal K-factor 11.2 (160) for Class I to Class IV, stored on Single, Double or Multiple racks with storage height up to 7.6 m shall be as per **Table 9.7.Z.a.**

Table 9.7.Z.a.: CMSA and Nominal K-factor 11.2 for Class I to Class IV, stored in Racks up to 7.6 m

TYPE OF SYSTEM	COMMODITY CLASS	MAXIMUM STORAGE HEIGHT	MAXIMUM CEILING HEIGHT	LARGE DROP TYPE NOMINAL K-FACTOR 11.2 (160) / ORIENTATION			
				NUMBER OF SPRINKLERS	DESIGN PPRESSURE	PUMP CAPACITY WITH HOSE DEMAND	PUMP CAPACITY WITH HYDRANTS
WET	I, II	6.1	9.1	15 / upright	25 psi	1000 gpm	1250 gpm
		7.6	9.1	20 / upright	25 psi	1250 gpm	1500 gpm
	III	6.1	9.1	15 / upright	25 psi	1000 gpm	1250 gpm
		7.6	9.1	15+ 1 level of in-rack	25 psi	1250 gpm	1500 gpm
		7.6	10.6	15+ 1 level of in-rack	25 psi	1250 gpm	1500 gpm
	IV	6.1	7.6	15/upright	50 psi	1250 gpm	1500 gpm
		6.1	9.1	20/ upright	50 psi	1500 gpm	2000 gpm
				15 / upright	75 psi	1500 gpm	2000 gpm
		7.6	9.1	15+ 1 level of in-rack	50psi	1500 gpm	2000 gpm
		7.6	10.6	20+ 1 level of in-rack	50 psi	2000 gpm	2500 gpm
				15+ 1 level of in-rack	75 psi	2000 gpm	2000 gpm
PRE-ACTION OR DRY	I,II	6.1	9.1	25 / upright	25 psi	1500 gpm	2000 gpm
		7.6	9.1	30 / upright	25 psi	2000 gpm	2000 gpm
	III	6.1	9.1	25 / Upright	25 psi	1500 gpm	2000 gpm