

Table 9.7: Automatic Sprinkler System Requirements

ITEMS	REQUIREMENTS
46. DESIGN CRITERIA OF CMSA AND NOMINAL K-FACTOR FOR CLASS I TO IV, STORED IN SINGLE, DOUBLE OR MULTIPLE RACKS TO A HEIGHT OF OVER 7.6 M.	<p>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 over 7.6 m shall be as per Table 9.7.AA.a.</p> <p>ii. NFPA 13 shall be followed for in-rack installation criteria.</p>

Table 9.7.AA.a.: CMSA and Nominal K-factor of 11.2 for Class I to Class IV, stored in Racks Over 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 PRESSURE	PUMP CAPACITY WITH HOSE DEMAND	PUMP CAPACITY WITH YDRANTS
WET	I, II	9.1	10.6	20 + 1 level of in rack / up-right	25 PSI	1500 gpm	2000 gpm
		10.6	12.1	-	-		
	III, IV	9.1	10.6	-	-		
		10.6	12.1	-	-		
PRE -ACTION OR DRY	I, II	9.1	10.6	30 + 1 level of in rack / up-right	25 PSI	2000 gpm	2500 gpm
		10.6	12.1	36 /upright	55 psi	3000 gpm	3500 gpm