

Table 9.7: Automatic Sprinkler System Requirements

ITEMS	REQUIREMENTS
48. 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 Special Application) and Nominal K-factor 19.6 (280) 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.c.</p> <p>ii. NFPA 13 shall be followed for in-rack installation criteria.</p>

Table 9.7.AA.c.: CMSA and Nominal K-factor of 19.6 for Class I to Class IV, stored in Racks Over 7.6 m

TYPE OF SYSTEM	COMMODITY CLASS	MAXIMUM STORAGE HEIGHT	MAXIMUM CEILING HEIGHT	K-FACTOR 19.6 (280) NUMBER OF SPRINKLERS BY MINIMUM DESIGN PRESSURE /ORIENTATION			
				25 PSI(1.7 BARS)	30 PSI(2.1 BARS)	PUMP CAPACITY WITH HOSE DEMAND	PUMP CAPACITY WITH YDRANTS
WET	I, II	9.1	10.6	15 / pendent	-	1500 gpm	2000 gpm
		10.6	12.1		15 / pendent	1500 gpm	2000 gpm
	III, IV	9.1	10.6	15 / pendent	-	1500 gpm	2000 gpm
		10.6	12.1	-	15 / pendent	1500 gpm	2000 gpm
PRE - ACTION OR DRY	I, II	9.1	10.6	-	-		
		10.6	12.1	-	-		