**ITEMS** 

**44. DESIGN CRI CMSA AND** 

HEIGHT OF 7.6 M.

Table 9.7: Automatic Sprinkler System Requirements							
EMS	REQUIREMENTS						
. DESIGN CRITERIA OF CMSA AND NOMINAL K -FACTOR FOR CLASS I TO IV, STORED IN SIN- GLE, DOUBLE OR MUL- TIPLE RACKS TO A	<ol> <li>The automatic Sprinkler Design criteria of CMSA (Control Mode Specific Application) and Nominal K-factor 16.8 (240) 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.b.</li> </ol>						

## Table 9.7.Z.b. CMSA and Nominal K-factor of 16.8 for Class I to Class IV, stored in Racks up to 7.6 m

TYPE OF SYSTEM	COMMODI- TYCLASS	MAXI- MUM STORAGE HEIGHT	MAXI- MUM CEILING HEIGHT	K-FACTOR 16.8 (240) NUMBER OF SPRINKLERS BY MINIMUM DESIGN PRES- SURE / ORIENTATION					
				10 PSI (0.7 BAR)	15 PSI (1 BAR)	22 PSI (1.5 BAR)	35 PSI (2.4 BAR)	PUMP CAPACITY WITH HOSE DEMAND	PUMP CAPACITY WITH HYDRANTS
WET	I, II	6.1	9.1	15 / upright	-	-	-	750 gpm	1250 gpm
		7.6	9.1	15 / upright	-	-	-	750 gpm	1250 gpm
	III	6.1	9.1	-	15 / upright	-	-	1000 gpm	1500 gpm
		7.6	9.1	-		15 / up- right		1250 gpm	1500 gpm
		7.6	10.6	-	15+ 1 level of in-rack	-	-	1250 gpm	2000 gpm
	IV	6.1	7.6	-	-	15 / up- right	-	1250 gpm	1500 gpm
		6.1	9.1	-	-	15 / up- right	-	1250 gpm	1500 gpm
		7.6	9.1	-	-	15 / up- right	-	1250 gpm	1500 gpm
		7.6	10.6	-	-	20+ 1 level of in -rack	15+ 1 level of in -rack	2000 gpm	2500 gpm
PRE- ACTION	1,11	6.1	9.1	-	25 / upright	-	-	1500 gpm	2000 gpm
OR		7.6	9.1	-	30 / upright	-	-	2000 gpm	2500 gpm
DRY	Ш	6.1	9.1	-	25 / upright	-	-	1500 gpm	2000 gpm