

**Table 9.7: Automatic Sprinkler System Requirements**

ITEMS	REQUIREMENTS
<b>41. DESIGN CRITERIA OF CMSA (CONTROL MODE SPECIFIC APPLICATION) AND NOMINAL K-FACTOR FOR CLASS I TO IV, RUBBER, PLASTIC STORED PALLETIZED, SOLID PILED TO A HEIGHT OF 7.6 M.</b>	i. The automatic Sprinkler Design criteria of CMSA and Nominal K-factor for Class I to Class IV, Plastic and Rubber stored palletized, solid piled or on shelf with storage height up to 7.6 m shall be as per <b>Table 9.7.X.</b>

**Table 9.7.X: Class I to Class IV, Rubber, Plastic stored palletized, solid piled with storage up to 7.6 m**

STORAGE ARRANGEMENT	COMMODITY CLASS	MAXIMUM STORAGE HEIGHT Meters	MAXIMUM CEILING HEIGHT Meters	CMSA TYPE NOMINAL K-FACTOR 11.2 (161)		K-FACTOR 16.8 (242) NUMBER OF SPRINKLERS BY MINIMUM DESIGN PRESSURE			
				NUMBER OF SPRINKLERS	DESIGN PRESSURE	10 psi (0.7 bar)	22 psi (1.5 bar)	PUMP CAPACITY WITH HOSE DEMAND	PUMP CAPACITY WITH HYDRANTS
PALLETIZED	I	7.6	10.7	15	25 psi	-	-	1000 gpm	1250 gpm
	II	7.6	10.7	15	25 psi	-	-	1000 gpm	1250 gpm
	III	7.6	10.7	15	25 psi	-	-	1000 gpm	1250 gpm
	I or II	7.6	9.1	-	-	15	-	750 gpm	1250 gpm
	III or IV	7.6	9.1	-	-	-	15	1250 gpm	1500 gpm
	IV	6.1	9.1	15	50 psi	-	-	1250 gpm	1500 gpm
	PLASTICS AND RUBBER CARTONED OR EXPOSED UNEXPANDED	6.1	9.1	25	25 psi	-	-	1500 gpm	2000 gpm
		7.6	9.1	-	-	-	15	1250 gpm	1500 gpm
	PLASTIC AND RUBBER CARTONED OR EXPOSED EXPANDED	5.5	7.9	15	50 psi	-	-	1250 gpm	1500 gpm
SOLID PILED	PLASTICS AND RUBBER CARTONED OR EXPOSED UNEXPANDED	6.1	9.1	15	50 psi	-	-	1250 gpm	1500 gpm
		7.6	9.1	-	-	-	15	1250 gpm	1500 gpm
	I	6.1	9.1	15	25 psi	-	-	1000 gpm	1250 gpm
	I	7.6	9.1	-	-	15	-	750 gpm	1250 gpm
	II	6.1	9.1	15	25 psi	-	-	1000 gpm	1250 gpm
	II	7.6	9.1	-	-	15	-	750 gpm	1250 gpm
	III	6.1	9.1	15	25 psi	-	-	1000 gpm	1250 gpm
	III	7.6	9.1	-	-	-	15	1250 gpm	1500 gpm
	IV	6.1	9.1	15	50 psi	-	-	1250 gpm	1500 gpm
	IV	7.6	9.1	-	-	-	15	1250 gpm	1500 gpm