

**Table 9.7: Automatic Sprinkler System Requirements**

ITEMS	REQUIREMENTS
<b>49. DESIGN CRITERIA OF ESFR FOR CLASS I TO IV, STORED IN SINGLE, DOUBLE OR MULTIPLE RACKS UP TO A HEIGHT OF 7.6 M</b>	i. The automatic Sprinkler Design criteria of ESFR for Class I to Class IV, stored in Single, Double or Multiple racks with storage height up to 7.6 m shall be as per <b>Table 9.7.BB.</b> , for a <b>minimum of 12 sprinkler heads</b> .

**Table 9.7.BB.: ESFR for Class I to Class IV, stored in Racks up to a height of 7.6 m**

STORAGE ARRANGEMENT	COM-MODITY	MAXIMUM STORAGE HEIGHT (m)		MAXIMUM CEILING HEIGHT (m)	NOMINAL K-FACTORS FOR THE TYPE OF SPRINKLER ORIENTATION		MINIMUM OPERATING PRESSURE (PSI)	PUMP CAPACITY WITH HOSE DEMAND	PUMP CAPACITY WITH VDRANTS
					UPRIGHT	PENDENT			
<b>SINGLE-ROW, DOUBLE-ROW, AND MULTIPLE-ROW RACK (NO OPEN-TOP CONTAINERS)</b>	CLASS I, II, III, OR IV, ENCAPSULATED OR NOT ENCAPSULATED	6.1	7.6	7.6	14 (201)	14 (201)	50	1250 gpm	1500 gpm
					16.8 (242)	16.8 (242)	35	1250 gpm	1500 gpm
					-	22.4 (322)	25	1500 gpm	2000 gpm
					-	25.2 (363)	15	1250 gpm	1500 gpm
			7.6	9.1	14 (201)	14 (201)	50	1250 gpm	1500 gpm
					16.8 (242)	16.8 (242)	35	1250 gpm	1500 gpm
					-	22.4 (322)	25	1500 gpm	2000 gpm
					-	25.2 (363)	15	1250 gpm	1500 gpm
				9.8	14 (201)	14 (201)	60	1500 gpm	2000 gpm
					16.8 (242)	16.8 (242)	42	1500 gpm	2000 gpm
				10.7	14 (201)	14 (201)	75	1500 gpm	2000 gpm
					16.8 (242)	16.8 (242)	52	1500 gpm	2000 gpm
					-	22.4 (322)	35	1500 gpm	2000 gpm
					-	25.2 (363)	20	1500 gpm	2000 gpm
				12.2	-	14 (201)	75	1500 gpm	2000 gpm
					-	16.8 (242)	52	1500 gpm	2000 gpm
					-	22.4 (322)	40	2000 gpm	2000 gpm
					-	25.2 (363)	25	1500 gpm	2000 gpm
				13.7	-	-	-	-	-
					-	-	-	-	-
					-	22.4 (322)	40	2000 gpm	2000 gpm
					-	25.2 (363)	40	2000 gpm	2500 gpm