

Table 9.7: Automatic Sprinkler System Requirements

ITEMS	REQUIREMENTS
42. DESIGN CRITERIA OF ESFR FOR CLASS I TO IV, STORED PALLETIZED, SOLID PILED	i. The automatic Sprinkler Design criteria of ESFR for Class I to Class IV, stored palletized, solid piled or on shelf shall be as per Table 9.7.Y. for a minimum of 12 sprinkler heads.

Table 9.7.Y: ESFR for Class I to Class IV, stored palletized, solid piled

STOR- AGE AR- RANGEM ENT	COM- MODITY	MAXI- MUM STOR- AGE HEIGHT	MAXI- MUM CEILING HEIGHT Meters	NOMINAL K-FACTORS FOR THE TYPE OF SPRINKLER		MINIMUM OPERAT- ING PRES- SURE (PSI)	PUMP CAPACITY WITH HOSE DEMAND	PUMP CAPACITY WITH HYDRANTS
				UPRIGHT	PENDENT			
PALLET- IZED OR SOLID PILED	CLASS I, II, III, IV	6.1	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
		7.6	10	14 (201)	14 (201)	60	1500 gpm	2000 gpm
				-	16.8 (242)	42	1500 gpm	2000 gpm
		9.1	11	-	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
		11	12	-	14 (201)	75	1500 gpm	2000 gpm
				16.8 (242)	16.8 (242)	52	1500 gpm	2000 gpm
				-	22.4 (322)	40	2000 gpm	2000 gpm
				-	25.2 (363)	25	1500 gpm	2000 gpm
		11	14	-	22.4 (322)	40	2000 gpm	2000 gpm
				-	25.2 (363)	40	2000 gpm	2500 gpm
		12	14	-	22.4 (322)	40	2000 gpm	2000 gpm
				-	25.2 (363)	40	2000 gpm	2500 gpm