Table 9.7: Automatic Sprinkler System Requirements

ITEMS	REQUIREMENTS
33. DESIGN CRITERIA (ESFR) FOR IDLE PALLETS	i. The automatic ESFR Sprinkler Design criteria for idle wooden pallets stored indoors shall be as per **Table 9.7.K.** ii. The automatic ESFR Sprinkler Design criteria for idle plastic pallets stored indoors shall be as per **Table 9.7.L.**

Table 9.7.K: ESFR for Idle Wooden Pallets Stored Indoors

STORAGE ARRANGEMENT	COMMODITY	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 YDRANTS
				UP-RIGHT	PENDENT			
ON FLOOR OR RACKS WITHOUT SOLID SHELVES	IDLE WOODEN PALLETS	7.6	9.1	-	14 (201)	50	1250 gpm	1500 gpm
				-	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)	60	1500 gpm	2000 gpm
				-	16.8 (242)	42	1500 gpm	2000 gpm
				-	-	-		
				-	-	-		
		9.1	11	-	-	-		
				-	-	-		
				-	22.4 (322)	35	1500 gpm	2000 gpm
				-	25.4 (360)	20	1500 gpm	2250 gpm
		11	12	-	-	-	-	-
				-	16.8 (242)	52	1500 gpm	2000 gpm
				-	22.4 (322)	40	2000 gpm	2000 gpm
				-	25.2 (363)	25	1500 gpm	2000 gpm
		12	13.7	-	-	-	-	-
				-	-	-	-	-
ON FLOOR	IDLE WOODEN PALLETS	-	-	-	-	-		
				-	-	-		
		6.1	9.1	-	14 (201)	50	1250 gpm	1500 gpm
				-	16.8 (240)	35	1250 gpm	1500 gpm
		6.1	11	-	14 (201)	75	1500 gpm	2000 gpm
				-	16.8 (240)	52	1500 gpm	2000 gpm

Table 9.7.L: ESFR for Idle Plastic Pallets Stored Indoors

STORAGE ARRANGEMENT	COMMODITY	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 YDRANTS
				UP-RIGHT	PENDENT			
ON FLOOR OR RACKS WITHOUT SOLID SHELVES	IDLE PLASTIC PALLETS	7.6	9.1	-	14 (201)	50	1250 gpm	1500 gpm
				-	16.8 (242)	35	1250 gpm	1500 gpm
				-	-	-		
				-	-	-		
		7.6	10	-	14 (201)	60	1500 gpm	2000 gpm
				-	16.8 (242)	42	1500 gpm	2000 gpm
				-	-	-		
				-	-	-		
		-	-	-	-	-		
				-	-	-		
				-	-	-		
				-	-	-		
		11	12	-	-	-	-	-
				-	-	-	-	-
				-	-	-		
				-	-	-		
		-	-	-	-	-		
				-	-	-		