

Table 9.7: Automatic Sprinkler System Requirements

ITEMS	REQUIREMENTS
52. DESIGN CRITERIA OF ESFR SPRINKLERS FOR PALLETIZED OR SOLID PILED GROUP A PLASTIC AND RUBBER.	<p>i. The automatic ESFR Sprinkler Design criteria for Group A Plastic and Rubber stored palletized or solid piled shall be as per Table 9.7.EE., for a minimum of 12 sprinkler head operation.</p> <p>ii. ** Not applicable to storage height of 6.1 m.</p>

Table 9.7.EE.: ESFR for Group A Plastic and Rubber palletized or Solid Piled

STOR- AGE AR- RANGE MENT	COM- MODITY	MAXIMUM STORAGE HEIGHT (Meters)				MAXI- MUM CEILING HEIGHT (Meters)	NOMINAL K- FACTORS FOR THE TYPE OF SPRINKLER ORIENTATION		MINI- MUM OPER- ATING PRES- SURE	PUMP CAPACITY WITH HOSE DEMAND	PUMP CAPACITY WITH YDRANTS		
							UP- RIGHT	PEN- DENT					
PALLET- IZED OR SOLID PILED	PLASTIC CAR- TONED UNEX- PANDED	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	
							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		9.1			11	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
					11	11	12	-	14 (201)	75	1500 gpm	2000 gpm	
								-	16.8 (242)	52	1500 gpm	2000 gpm	
								-	22.4 (322)	40	2000 gpm	2500 gpm	
								-	25.2 (363)	25	1500 gpm	2000 gpm	
				12	14	-	22.4 (322)	40	1500 gpm	2000 gpm			
						-	25.2 (363)	40	2000 gpm	2000 gpm			
PALLET- IZED OR SOLID PILED	PLASTIC EXPOSED UNEX- PANDED	6.1					7.6	-	14 (201)	50	2000 gpm	1500 gpm	
								-	16.8 (242)	35	1250 gpm	1500 gpm	
			7.6			9.1	-	14 (201)	50	1250 gpm	1500 gpm		
							-	16.8 (242)	35	1250 gpm	1500 gpm		
						9.1	11	-	14 (201)	75	1500 gpm	2000 gpm	
								-	16.8 (242)	52	1500 gpm	2000 gpm	
					11	12	-	14 (201)	75	1500 gpm	2000 gpm		
							-	16.8 (242)	52	1500 gpm	2000 gpm		
							-	25.2 (363) *	50	2000 gpm	2500 gpm		
	PLASTIC CAR- TONED EXPAND- ED	6.1					7.6	14 (201)	14 (201)	50	1250 gpm	1500 gpm	
								16.8 (242)	16.8 (242)	35	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		
								10	14 (201)*	14 (201)*	60	1500 gpm	2000 gpm
									16.8 (242) *	16.8 (242) *	42	1500 gpm	2000 gpm
	PLASTIC EXPOSED & EX- PANDED	7.6					12		25.2 (363)	60	2500 gpm	2500 gpm	