Table 9.7: Automatic Sprinkler System Requirements						
ITEMS	REQUIREMENTS					
37. DESIGN CRITERIA FOR CLASS I TO IV STORED IN MULTIPLE ROW RACKS OF 4.9 M DEPTH AND AISLES 2.4 M OR WIDER WITH STORAGE HEIGHT OF 3.7 M TO 6.1 M.	 i. The automatic Sprinkler Design Criteria for Class I to IV stored in Multiple row racks of 4.9 m depth and aisles 2.4 m or wider with storage height of 3.7 m to 6.1 m shall be as per Table 9.7.R. with Area of sprinkler operation of 2000 ft² (186m²). ii. Figure 9.22 is applicable for all design criteria in Table 9.7.R. except for Class IV non encapsulated commodity till 4.6 m storage height. iii. The fire pump capacities indicated is for high temperature ceiling sprinkler for 4.6 m and 6.1 m storage height (with respect to the maximum storage height indicated) 					

Table 9.7.R: Class I-Class IV stored on racks of 4.9 m depth, aisle 2.4 m or wider, height of 3.7 m-6.1 m

HEIGHT	COM- MODITY CLASS	ENCAPSU- LATION	IN RACK SPRIN- KLERS	CEILING SPRINKLER DESIGN DENSITY , Gpm/ft² (mm/min)						
				WITH IN RACK SPRIN- KLERS		WITHOUT IN RACK SPRINKLERS				
				MULTIPLE ROW RACKS		MULTIPLE ROW RACKS				
				HIGH TEMPERA- TURE CEIL- ING SPRINKLER & ORDI- NARY TEM- PERATURE RACK SPRINKLER	ORDINARY TEMPERA- TURE CEIL- ING SPRINKLER & ORDI- NARY TEMPERA- TURE RACK SPRINKLER	HIGH TEMPERA- TURE CEIL- ING SPRIN- KLERS	ORDINARY TEMPERA- TURE CEIL- ING SPRINKLERS	PUMP CAPACITY WITH HOSE DEMAND	PUMP CAPACITY WITH YDRANTS	
Over 12 ft. (3.7 m) up to 15 ft. (4.6 m)	I	No	No Need			0.37 (15.1)	0.41 (16.7)	500 gpm	1000 gpm	
		Yes				0.46 (18.8)	0.51 (20.8)	750 gpm	1000 gpm	
	II	No				0.42 (17.1)	0.47 (19.1)	500 gpm	1000 gpm	
		Yes				0.52 (21.4)	0.59 (23.9)	750 gpm	1250 gpm	
	III	No	No Need			0.47 (19.1)	0.52 (21.4)	750 gpm	1000 gpm	
		Yes	1 Level	0.36 (14.6)	0.41 (16.7)	N/A	N/A	750 gpm	1000 gpm	
	IV	No	No Need			0.39 (15.7)	0.44 (17.9)	750 gpm	1250 gpm	
		Yes	1 Level	0.48 (19.5)	0.56 (22.6)	N/A	N/A	1000 gpm	1250 gpm	
Over 15 ft. (4.6 m) up to 20 ft. (6.1 m)	I	No	No Need			0.37 (15.1)	0.41 (16.7)	750 gpm	1250 gpm	
		Yes				0.46 (18.8)	0.51 (20.8)	1000 gpm	1500 gpm	
	II	No				0.42 (17.1)	0.47 (19.1)	1000 gpm	1250 gpm	
		Yes				0.52 (21.4)	0.59 (23.9)	1250 gpm	1500 gpm	
	Ш	No	No Need			0.47 (19.1)	0.52 (21.4)	1000 gpm	1500 gpm	
		Yes	1 Level	0.36 (14.6)	0.41 (16.7)					
	IV	No	1 Level	0.39 (15.7)	0.44 (17.9)	N/A	N/A	1000 gpm	1500 gpm	
		Yes		0.48 (19.5)	0.56 (22.6)					

