Table 9.7: Automatic Sprinkler System Requirements

ITEMS

REQUIREMENTS

- **CLASS I TO IV STORED** ON RACKS OF 6.1 M **TO AND 6.7 M.** (WITHOUT SOLID SHELVES)
- **36. DESIGN CRITERIA FOR** i. The automatic Sprinkler Design criteria for Class I to Class IV stored on single or double row racks with storage height 6.1 m to 6.7 m (without solid shelves) shall be as per Table 9.7.P., with Area of sprinkler operation of 2000 ft² (186m²).
 - ii. Figure 9.22 is applicable for all design criteria in Table 9.7.P except where in-rack sprinkler requirement is mandatory.
 - iii. The fire pump capacity indicated is for high temperature ceiling sprinkler and storage height of 6.7 m.

Table 9.7.P: Class I to Class IV stored on racks without solid shelves and storage height of 6.1 m to 6.7 m

AISLE WIDTH & ENCAPSU- LATION	COM- MODI TY CLASS	IN RACK SPRIN- KLERS	CEILING SPRINKLER DESIGN DENSITY , Gpm/ft² (mm/min)					
			WITH IN RACK SPRINKLERS SINGLE OR DOUBLE ROW RACKS		WITHOUT IN RACK SPRINKLERS SINGLE OR DOUBLE ROW RACKS			
			1.2 M ENCAPSULAT- ED	I	1 LEVEL	0.30 (12.2)	0.35 (14.3)	
П	1 LEVEL	0.30 (12.2)		0.35 (14.3)			750 gpm	1250 gpm
Ш	1 LEVEL	0.35 (14.3)		0.39 (15.9)			1000 gpm	1500 gpm
IV	1 LEVEL	0.47 (19.1)		0.55 (22.4)			1250 gpm	1500 gpm
1.2 M NOT ENCAPSULAT- ED	I	No Need			0.32 (13.0)	0.37 (15.0)	1000 gpm	1250 gpm
	II	No Need			0.38 (15.5)	0.44 (17.9)	1000 gpm	1500 gpm
	III	No Need			0.43 (17.5)	0.49 (20.0)	1250 gpm	1500 gpm
	IV	No Need			0.58 (23.6)	0.60 (24.5)	1500 gpm	2000 gpm
2.4 M ENCAPSULAT- ED	I	1 LEVEL	0.24 (9.8)	0.27 (11.0)			750 gpm	1250 gpm
	П	1 LEVEL	0.24 (9.8)	0.27 (11.0)			750 gpm	1250 gpm
	Ш	1 LEVEL	0.28 (11.4)	0.32 (13.0)			750 gpm	1250 gpm
	IV	1 LEVEL	0.39 (15.9)	0.45 (18.3)			1000 gpm	1500 gpm
2.4 M NOT ENCAPSULAT- ED	I	No Need			0.29 (11.8)	0.33 (13.4)	750 gpm	1250 gpm
	II	No Need			0.32 (13.0)	0.37 (15.0)	1000 gpm	1250 gpm
	III	No Need			0.37 (15.0)	0.42 (17.1)	1000 gpm	1500 gpm
	IV	No Need			0.49 (20.0)	0.57 (23.2)	1500 gpm	2000 gpm

