Table 9.7: Automatic Sprinkler System Requirements

ITEMS	REQUIREMENTS
53. DESIGN CRITERIA FOR TIRES STORED SOLID PILED, ON SHELF OR IN RACKS UP TO 3.7 M	i. The automatic Sprinkler Design criteria for Tires stored solid piled, on shelf or in racks with storage height of up to 3.7 m shall be as per **Table 9.7.FF.**

Table 9.7.FF: Tires stored up to height of 3.7 m

COM-MODITY CLASS	STORAGE ARRANGEMENT	MAXIMUM STORAGE HEIGHT	MAXI-MUM CEILING HEIGHT	REQUIRED DESIGN DENSITY Gpm (LPM)	AREA OF SPRINKLER OPERA-TION FT^2 (m^2)	IN RACK SPRIN-KLER	PUMP CAPACI-TY WITH HOSE DEMAND	PUMP CAPACITY WITH YDRANTS
TIRES	ON FLOOR, ON SIDE	1.5 m – 3.7 m	10 m	0.30 (12.2)	2500 (232)	No need	750 gpm	1250 gpm
	ON FLOOR, ON TREAD OR ON SIDE	<1.5 m		0.20 (8.1)	1500 (140)	No need	350 gpm	750 gpm
	SINGLE DOUBLE OR MULTIPLE-ROW ON RACKS ON TREAD OR ON SIDE	<1.5 m		0.20 (8.1)	1500 (140)	No need	350 gpm	750 gpm
	SINGLE-ROW RACK, PORT-ABLE, ON TREAD OR ON SIDE	1.5 m – 3.7 m	10 m	0.30 (12.2)	2500 (232)	No need	750 gpm	1250 gpm
	SINGLE-ROW RACK, FIXED, ON TREAD OR ON SIDE	1.5 m – 3.7 m	10 m	0.30 (12.2)	2500 (232)	No need	750 gpm	1250 gpm
		1.5 m – 3.7 m	10 m	0.20 (8.1)	1500 (140)	1 LEVEL	500 gpm	1000 gpm

Figure 9.24.: Tire Storage arrangement for illustration