

Fig. 18. Fire Protection Scheme 8-9A within multiple-row racks

2.3.5 Hose Demands, Hose Connections, and System Duration

2.3.5.1 Hose Demand and System Duration

2.3.5.1.1 See Table 14 to determine the recommended hose demand for system design purposes that account for potential manual intervention. Allow at least 100 gpm (380 L/min) for inside hose stream usage, when provided, and add the balance of the hose demand to the overall sprinkler demand at the point of connection.

2.3.5.1.2 In addition, ensure the water supplies are capable of providing the combined sprinkler system (ceiling and, if provided, in-rack) and hose demands at adequate pressure per the duration guidelines in Table 14.

the flue space created between a single-row rack structure and a wall located within 12 in. (300 mm) horizontally of the rack structure can be positioned outside the footprint of the single-row rack structure as shown in Figure 19c.

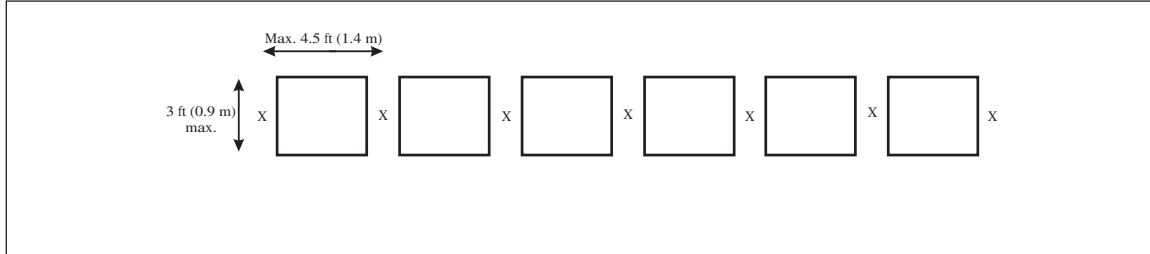


Fig. 19a. Plan view of alternative in-rack sprinkler arrangement for single-row racks up to 3 ft (0.9 m) deep

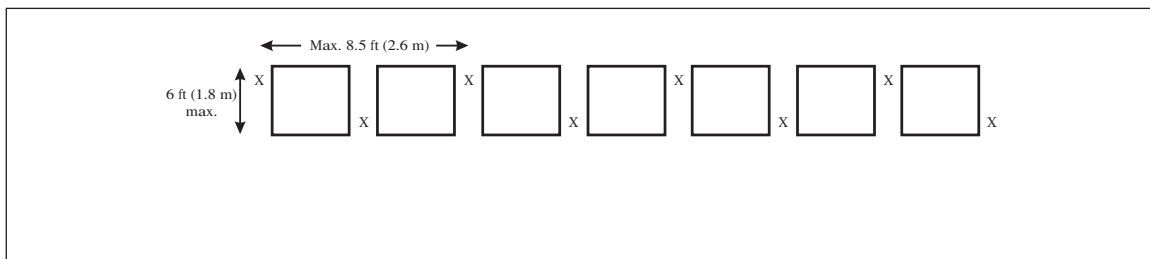


Fig. 19b. Plan view of alternative in-rack sprinkler arrangement for single-row racks up to 6 ft (1.8 m) deep

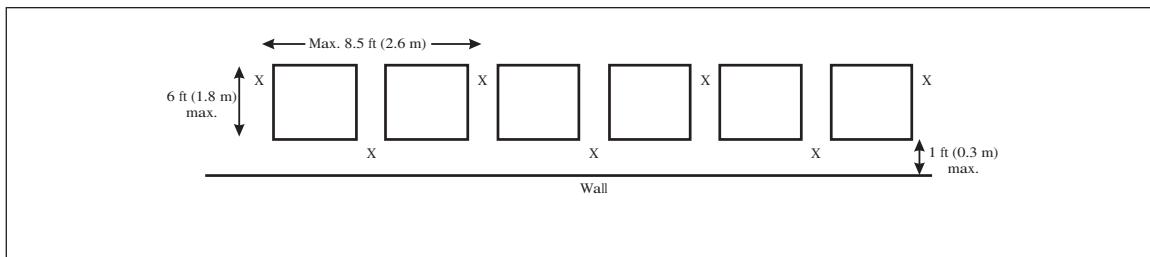


Fig. 19c. Plan view of alternative in-rack sprinkler arrangement for single-row racks up to 6 ft (1.8 m) deep located against wall

Arrange sprinkler piping and in-rack sprinklers to avoid mechanical damage, but ensure proper distribution from the in-rack sprinkler can be achieved. Prior to installing in-rack sprinklers, check the proposed in-rack sprinkler locations to ensure both adequate protection against mechanical damage and proper sprinkler discharge are provided.

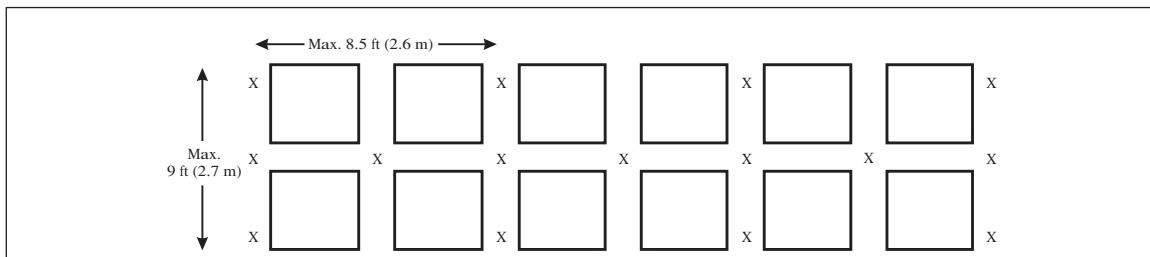


Fig. 20a. Plan view of alternative in-rack sprinkler arrangement for double-row racks up to 9 ft (2.7 m) deep