

Table 9.10: Automatic Deluge Water Spray System

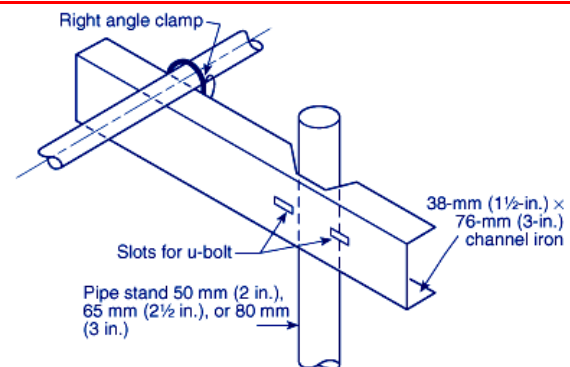
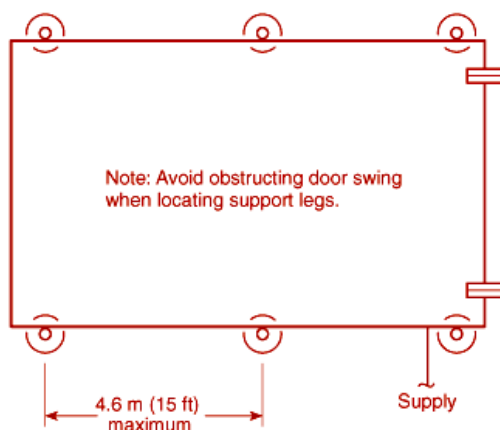
| ITEMS | REQUIREMENTS |
|--------------------------|---|
| 7. PIPING SUPPORT | <p>i. The system piping shall be supported to maintain its integrity under fire conditions.</p> <p>ii. The piping shall be supported from steel or concrete structural members or pipe stands.</p> <p>iii. Pipe stands used to support piping shall be in accordance with Table 9.10.B to determine maximum heights for pipe stands supporting various diameters of looped piping.</p> <p>iv. The distance between stands shall be as per Table 9.10.C.</p> <p>v. Pipe stands shall be constructed of Schedule 40 threaded pipe, malleable iron flange base, and shall have a threaded cap top.</p> <p>vi. Pipe stands shall be anchored to a concrete pier or footing with either drop-in anchors, quick bolts, or cast-in-place J hooks.</p> <p>vii. The piping shall be attached to the pipe stand with U-bolts or equivalent attachment.</p> <p>viii. The piping shall be supported and braced to restrict movement due to nozzle reaction and water surges so that system performance and integrity is maintained.</p> <p>ix. Hangers shall comply with Table 9.7.30.</p> |

Table 9.10.B.: Maximum Pipe stand Heights

| DIAMETER OF PIPE | PIPE STAND DIAMETER 40 mm | PIPE STAND DIAMETER 50 mm | PIPE STAND DIAMETER 65 mm | PIPE STAND DIAMETER 80 mm | PIPE STAND DIAMETER 100 mm |
|------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| 1. 40 mm | 3048 mm | 4267 mm | 5486 mm | 8534 mm | 9144 mm |
| 2. 50 mm | 2438 mm | 3658 mm | 4876 mm | 7925 mm | 9144 mm |
| 3. 65 mm | 1829 mm | 3048 mm | 4267 mm | 7315 mm | 9144 mm |
| 4. 80 mm | | 2438 mm | 3658 mm | 6705 mm | 9144 mm |
| 5. 100 mm | | | | | 3048 mm |

Table 9.10.C.: Pipe Stand Distance

| LOOP SIZE | DISTANCE BETWEEN PIPE STANDS |
|-----------|------------------------------|
| 1. 25 mm | 3048 mm |
| 2. 40 mm | 3658 mm |
| 3. 50 mm | 4267 mm |
| 4. 65 mm | 4572 mm |



Note: Pipe stand brackets are now replacing the old style pipe stand without the bracket. The bracket makes installation easier and allows for adjustment horizontally and vertically. The standard bracket is made to fit 50-mm (2-in.), 65-mm (2½-in.), or 80-mm (3-in.) pipe stands.

Figure 9.30: Typical Arrangement of Support legs for Pipe Stands