



# QUICK RESPONSE

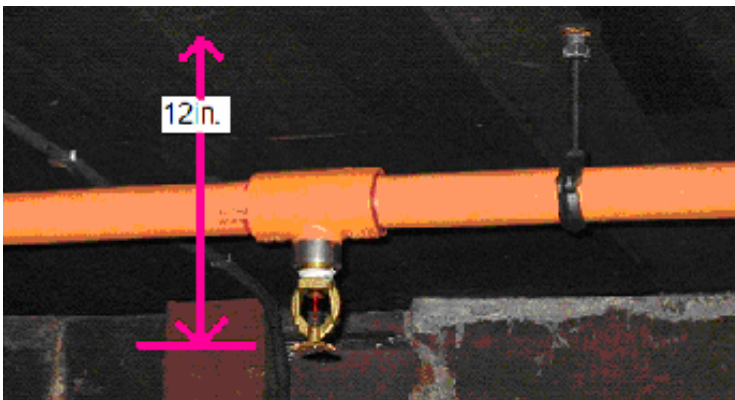
*Saving life and property through effective licensing, plan review, and inspection of fire protection systems.*

August 2007

## CPVC Piping: Common Misuses (part 2 of 3)

*Excerpts from manufacturers' installation guides*

### **Exposed CPVC: Under Smooth, Flat, Horizontal, Fixed ceilings ONLY!**



**Beam ceiling (not smooth or flat).  
Deflector distance exceeds the 8-in maximum.**

Standard coverage (non-residential) **Pendent** sprinklers shall be listed Quick Response 170°F (77°C) maximum temperature rated, having deflectors installed within **8-in** of the ceiling. (Not 12-in as-for standard sprinklers on steel pipe.)

Standard coverage (non-residential) **Upright** Sprinklers shall be listed Quick Response, 155°F (68°C) maximum temperature rated, installed within **4-in** of the ceiling. The maximum distance from the ceiling to the centerline of the main run of pipe shall not exceed **7½-in**.



**Sloped (not horizontal) ceiling.  
Pipe centerline exceeds the 7½-in maximum.**

Standard coverage (non-residential) **Horizontal Sidewall** Sprinklers shall be listed, Quick Response 200°F (93°C) maximum temperature rated having deflectors within **12-in** of the ceiling (according to its listing) and within **6-in** from the sidewall. The maximum distance between sprinklers shall not exceed **14-ft**. Piping shall be mounted directly to the sidewall.

*Quick Response* is presented monthly by the  
**Minnesota State Fire Marshal – Fire Protection Section**

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