

- 2.6.2 Horizontal Piping.** Unless an engineered design is provided and approved by the Administrative Authority, the following provisions shall apply. Horizontal piping 1 inch (25.4 mm) or smaller shall be supported at maximum 3 foot (914 mm) intervals. Piping 1-1/4 inch (32 mm) or larger shall be supported at maximum 4 foot (1219 mm) intervals.
- 2.6.3 Hangers and Anchors.** Piping shall not be anchored rigidly to a support, but rather secured with smooth hangers or straps that provide for a degree of movement and that prevent damage to the pipe. Hangers or straps with sharp or abrasive edges shall not be used. Hangers that pinch the piping shall not be used.
- 2.7 Solvent Cement Joints**
- 2.7.1 SAFETY REQUIREMENTS AND PRECAUTIONS<sup>1</sup>**
- (a) General. Solvents contained in CPVC plastic pipe cements are classified as airborne contaminants and flammable and combustible liquids. Precautions listed in this appendix should be followed to avoid injury to personnel and the hazard of fire.
- (b) Prolonged breathing of solvent vapors should be avoided. When pipe and fittings are being joined in partially enclosed areas, a ventilating device should be used in such a manner to minimize the entry of vapors into the breathing areas.
- (c) Solvent cements should be kept away from all sources of ignition, heat, sparks and open flame.
- (d) Containers for solvent cements should be kept tightly closed except when the cement is being used.
- (e) All rags and other materials used for mopping up spills should be kept in a safety waste receptacle which should be emptied daily.
- (f) Most of the solvents used in CPVC pipe cements can be considered eye irritants and contact with the eye should be avoided for it may cause eye injury. Proper eye protection and the use of chemical goggles or face shields are advisable where the possibility of splashing exists in handling solvent cements. In case of eye contact, flush with plenty of water for 15 minutes and call a physician immediately.
- (g) Repeated contact with the skin should be avoided. Proper gloves impervious to and unaffected by the solvents should be worn when frequent contact with the skin is likely. Application of the solvents or solvent cements with rags and bare hands is not recommended. Brushes and other suitable applicators can be used effectively for applying the solvent cement, thus avoiding skin contact. In the event of excessive contact, remove contaminated clothing and wash skin with soap and water.
- 2.7.2 Selection.** Follow the manufacturer's recommendations for type of solvent cements for such conditions as temperatures over 100°F (38°C), or humidity over 60%.
- 2.7.3 Handling (to maintain effectiveness).** Package solvent cement in containers no larger than 1 quart (1 liter). Keep solvent cement can closed and in the shade when not in use. Keep applicator submerged in solvent cement between applications. Discard solvent cement

**TABLE 1**  
**Developed Length "L" of Expansion Loops**

		Length of Run in Feet (mm)									
		20	(6096)	40	(12192)	60	(18288)	80	(24384)	100	(30480)
Nominal Size											
Inches	(mm)	Loop Length "L" in Inches (mm)									
1/2	(12.7)	22	(6706)	31	(9449)	38	(11582)	44	(13411)	50	(15240)
3/4	(19.1)	26	(7925)	37	(11278)	46	(14021)	52	(15850)	58	(17678)
1	(25.4)	30	(9144)	42	(12802)	52	(15850)	60	(18288)	67	(20422)
1-1/4	(32)	33	(10058)	47	(14326)	57	(17374)	66	(39917)	74	(22555)
1-1/2	(38)	36	(10973)	51	(15545)	62	(18898)	72	(21946)	80	(24384)
2	(51)	41	(12497)	58	(17678)	71	(21641)	82	(24994)	91	(27737)