

	<b>City of Casa Grande</b> <b>Development Center Policies &amp; Procedures</b>	<b>Effective Date:</b> <b>February 2, 2015</b>
	<b>Title:</b> <b>Perforated Strapping as Piping Support</b>	<b>Date Reviewed:</b> February 2, 2015
		<b>Department of Primary Responsibility:</b> <b>Building Safety</b>
		<b>Policy Number:</b> <b>B – BI – 003 - 2015</b>

With the adoption of the 2012 International Codes there have been some questions on the use of perforated metal or plastic strap (plumbers tape) as support for piping in a plumbing system.

The 2012 International Plumbing Code (IPC) requires all piping to be adequately supported.

**308.1 General.**

All plumbing piping shall be supported in accordance with this section.

**308.3 Materials.**

Hangers, anchors and supports shall support the piping and the contents of the piping. Hangers and strapping material shall be of *approved* material that will not promote galvanic action.

**308.4 Structural attachment.**

Hangers and anchors shall be attached to the building construction in an *approved* manner.

308.6 Sway bracing.

**Rigid support sway bracing shall be provided at changes in direction greater than 45 degrees (0.79 rad) for pipe sizes 4 inches (102 mm) and larger.**

308.7 Anchorage.

**Anchorage shall be provided to restrain drainage piping from axial movement.**

308.7.1 Location.

**For pipe sizes greater than 4 inches (102 mm), restraints shall be provided for drain pipes at all changes in direction and at all changes in diameter greater than two pipe sizes. Braces, blocks, rodding and other suitable methods as specified by the coupling manufacturer shall be utilized.**

The 2012 International Residential Code for One- and Two-family Dwellings is similar:

P2605.1 General.

**Piping shall be supported in accordance with the following:**

- 1. Piping shall be supported to ensure alignment and prevent sagging, and allow movement associated with the expansion and contraction of the piping system.**
- 2. Piping in the ground shall be laid on a firm bed for its entire length, except where support is otherwise provided.**
- 3. Hangers and anchors shall be of sufficient strength to maintain their proportional share of the weight of pipe and contents and of sufficient width to prevent distortion to the pipe. Hangers and strapping shall be of *approved* material that will not promote galvanic action. Rigid support sway bracing shall be provided at changes in direction greater than 45 degrees (0.79 rad) for pipe sizes 4 inches (102 mm) and larger.**
- 4. Piping shall be supported at distances not to exceed those indicated in Table P2605.1.**

Perforated metal or plastic strapping (plumbers tape) may be used to support plumbing system piping in the City of Casa Grande. The documentation for the strapping must be on site showing how to install the tape and load values for the tape if supporting drain lines. Vent piping does not require the load value documentation since only the pipe is being supported. Drain lines may require additional bracing and anchorage.

Remember when using perforated strapping:

- The tape must support the weight of the pipe and contents when full.
- The tape must be compatible with the pipe supported.
- The edge of the tape shall be free of edges that may compromise the integrity of the pipe supported.
- There shall be no twists or bends in the tape that might damage the tape or the piping.