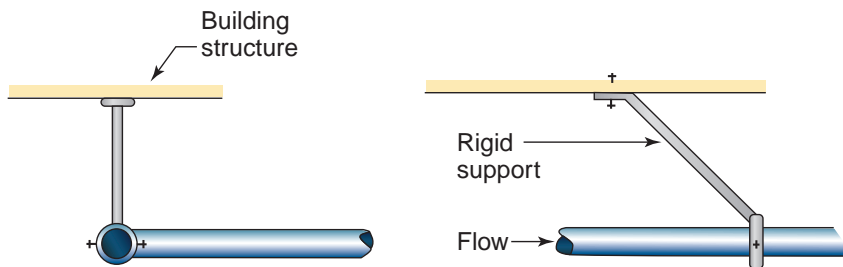


**CHANGE TYPE:** Clarification

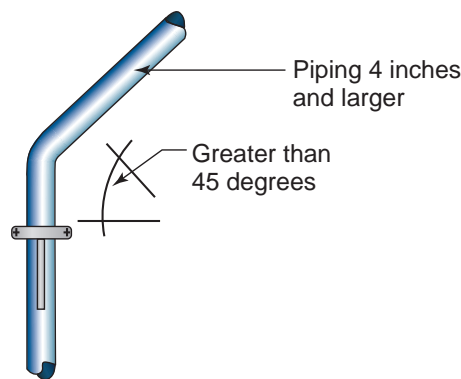
**CHANGE SUMMARY:** Additional information clarifies where sway bracing is needed for drainage piping.

**2018 CODE:** **308.6 Sway bracing.** Rigid support sway bracing shall be provided at Where horizontal pipes 4 inches (102 mm) and larger convey drainage or waste, and where a pipe fitting in that piping changes in the flow direction greater than 45 degrees (0.79 rad) for, rigid bracing or other rigid support arrangements shall be installed to resist movement of the upstream pipe sizes 4 inches (102 mm) and larger, in the direction of pipe flow. A change of flow direction into a vertical pipe shall not require the upstream pipe to be braced.

**CHANGE SIGNIFICANCE:** The piping sway discussed in this section is the result of drainage flow significantly changing direction because of turns in horizontal piping. The forces on the turning fitting (the elbow) cause the upstream piping to move axially. These movements can become amplified in the piping downstream of the fitting and causing the piping to sway (side-to-side motion). Such sway action could cause problems with piping joints and hanger systems. A change in horizontal direction that is 45 degrees or less is not considered to be significant enough to cause the piping system to move. Although the required sway bracing could also serve as a seismic support, as might be required in Section 308.2, the purpose of Section 308.6 is only for resisting flow-induced movements.



**ELEVATION VIEWS**



**PLAN VIEW**

One method of anti-sway bracing

# 308.6

## Sway Bracing for Drainage Piping

This excerpt is taken from *Significant Changes to the International Plumbing Code®, International Mechanical Code®, International Fuel Gas Code®, 2018 Edition.* Significant Changes publications take you directly to the most important changes that impact projects. Key changes are identified then followed by in-depth discussion of how the change affects real-world application. Photos, tables and illustrations are included to further clarify application. Available for the IBC, IRC, IFC and IPC/IMC/IFGC, the Significant Changes publications are very useful training and review tools for transitioning to a new code edition.