

BY JUSTIN FINE

Although hidden behind walls and in floors and ceilings, the pipes that make up a house's drain-waste-vent (DWV) system are the backbone of the plumbing equation. They are the exit for the water provided through the supply lines; they carry waste from the toilet, and they connect to outside air for venting sewer gas and relieving pressure. These relatively large-diameter pipes rely solely on gravity, but they aren't easily routed through the structure of a house.

With these challenges in the mind, devoted to DWV systems, not to mention the tables and examples illustrated in the appendix, there is a lot to know about the layout and installation of such a system. Pipe sizes that vary based on usage, routes through framing traps that may already be present with other mechanics, pitch tolerances of pipe or even just 1/8 in. per ft., fittings with subtle differences in intake, outlet, and application; and an array of minimums and maximums to consider when it comes to tying everything together are just a handful of the many situations, rules, and restrictions plumbers must understand.

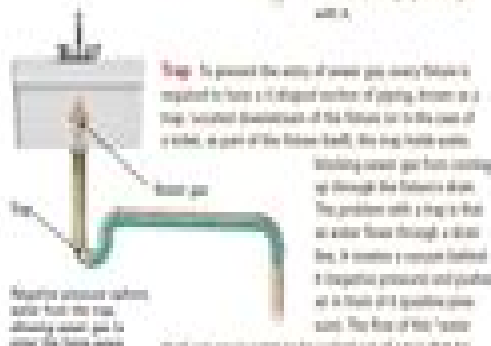
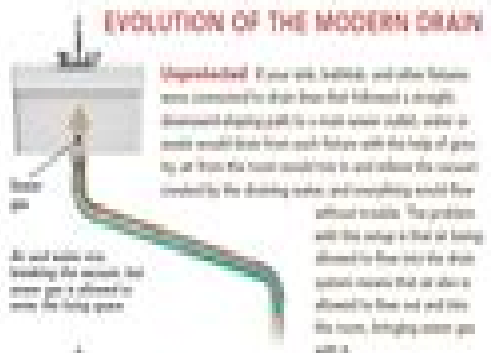
The stakes are high, because an improper DWV setup can lead to slow drains, gurgling fixtures, sewer gas entering the living space, recurring clogs, and potentially hazardous overflows. When installed well, though, a DWV system will go unnoticed, with solids, liquids, and gases flowing smoothly. Here's how it works.

Illustration: Justin Fine
Justin Fine is a former House editor.

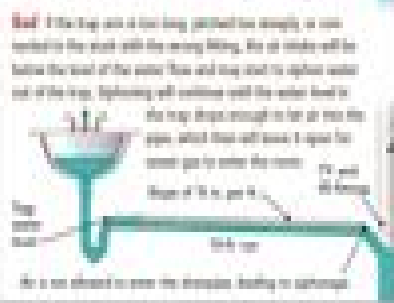
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