



PLUMBING

TECHNICAL SERVICES

USA



NSF

Cast Iron Soil Pipe and Fittings – The Quiet Plumbing System

Cast iron offers excellent sound performance compared to noisy plastic alternatives. Studies show that a cast iron DWV system has been proven to be more efficient in reducing plumbing related noise compared to PVC and ABS products. This makes a cast iron system the best choice for high-rise buildings, schools, hospitals and condominiums.

CAST IRON — THE RIGHT CHOICE
**EXCELLENT SOUND
PERFORMANCE**

**Domestic Cast Iron—
Reclaimed, Recycled, Responsible**





Making a Sound Choice with Cast Iron



Sound Performance with DWV Plumbing Systems and the Correlation to Quality Construction

Let's face it a noisy PVC system is annoying. While plastic piping is perceived a less expensive material, it may not be the right product for every application. The problem is that plastic produces a lot of noise due to the innate properties of low density plastic and the cementing of pipe and fittings together. To combat the noisy piping system, costly labor intensive measures are taken including wrapping pipes with a good insulating material such as fiberglass or neoprene foam jacketing which increases the overall project cost.

Environmental Noise and Quality of Life

As a society, we measure noise and its relationship to the quality of life. Loud noise gives the perception of low quality or poor workmanship. If you've ever stayed in a hotel where you are essentially "buying sleep" and if it's plumbed with plastic pipes, you can often hear others showering and flushing toilets depriving you of the well-deserved rest you desire.

A cast iron DWV piping system is quiet. Cast iron has excellent sound-deadening properties due to the inherently dense molecular structure and natural heavy mass. (See Sound Level graph at right.) Unlike plastic piping, cast iron has been proven to effectively suppress the sound of sloshing water cascading down from upstairs fixtures through the waste stack. Its superior sound performance plays a major role in enhancing the quality of life in both residential and commercial construction, where building owners and tenants understand the advantages of iron by the very first flush.

