

# ProVent's Whisper Quiet Shell Pipe™

## vs Cast Iron Pipe

The Shell Pipe snaps around the bare PVC pipe with flexible spacer rings making the PVC pipe comparably as quiet as cast iron.



Cast Iron Pipe



Provent's Whisper Quiet Shell Pipe™

Patent Pending Test Rig to Sound Test both Cast Iron Pipe and the Shell Pipe

Both piping systems were installed using exactly the same layout with all the same rig connections. The Cast Iron pipe and Provent's Whisper Quiet Shell pipe were tested in the same exact sound testing rigs using the water testing flow from 3 same size W.C. tanks.

### The difference in sound using Shell Pipe instead of Cast Iron for Stack Risers?

Decibel difference in Shell Pipe vertical stacks in 4" Size is 55.0 dB in 4" cast iron is 52.9 dB - **difference is 2.1 dB**

Decibel difference in Shell Pipe vertical stacks in 3" Size is 51.2 dB in 3" cast iron is 49.7 dB - **difference is 1.5 dB**

Decibel difference in Shell Pipe horizontal pipe in 4" Size is 59.6 dB in 4" cast iron is 55.2 dB - **difference is 4.4 dB**

Decibel difference in Shell Pipe horizontal pipe in 3" Size is 52.9 dB in 3" cast iron is 49.4 dB - **difference is 3.5 dB**

**NOTE:** Weakest Sound Heard in Decibel Level is at 0 dB.  
Barely Perceptible Change in Decibel Level at 3 dB

No Perceptible Change in Decibel Level at 1 dB,  
Clearly Noticeable Change in Decibel Level at 5 dB

The Sound Testing of the Shell Pipe vs Cast Iron was done by **Kolano & Saha Sound Engineers** (INCE Certified Personnel). The test **showed no perceptible change in sound transmission between the PVC Shell Pipe snapped around regular PVC and the Cast Iron Pipe**. Certified Test Data and a video test recording done by **Kolano & Saha** in Waterford Twp. MI.

**Not only is the ProVent Shell Pipe quiet, it costs less than Cast Iron pipe and is much easier to install.**



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