

Armstrong Manufacturing Plant

Application: Stacks

! CHALLENGE

- > Environmental Conditions
- > Environmental Noise
- > Unreliable Ratings

Noise radiating from the air stack outlet to the neighborhood had to be reduced. Because of the particulate matter in the airstream, standard dissipative silencers could not be considered.

Special design 'non-plug' stack silencer continues to perform.

✓ SOLUTION

NON-PLUG SILENCER AND STACK AND SCALE MODEL TEST

A 'non-plug' silencer was designed and supplied to prevent the exhaust air particulate contaminant from plugging the silencer and degrading the acoustic performance. Access ports were included to test for contaminant concentrations during production.

To ensure the success of the design, a scale model of the silencer was tuned for peak performance at 250 Hz and tested in the V-A laboratory. The system was still performing well after 3 years.

Vibro-Acoustics designed and supplied a special silencer / exhaust stack package for the 90,000 CFM tile line dust collection system.

