



# Controlling Industrial Noise and Thermal Loss at Bridgestone Manufacturing Facilities

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# OVERVIEW

Bridgestone operates large-scale tire manufacturing plants with extensive industrial piping, HVAC ductwork, and mechanical systems running continuously. Excessive vibration and airflow noise from these systems could interfere with worker communication, safety, and overall plant efficiency. Maintaining both acoustic control and thermal performance was essential for production continuity.

Noise from HVAC systems and high-pressure process piping also had the potential to radiate into administrative areas and common spaces, requiring a durable and flexible soundproof pipe and duct wrap solution that could handle industrial conditions without affecting operations.

# CHALLENGES

High-velocity ductwork, air handlers, and process piping generated persistent airborne and structure-borne noise. The facility required HVAC noise blocking, thermal insulation, and vibration control for industrial piping, all without downtime or complex modifications.

## **SOLUTION:**

All Noise Control applied ANC-B10LAG Wrap Barrier to HVAC ductwork, mechanical piping, pumps, valves, and duct transitions. The product combines mass-loaded vinyl with a reinforced aluminum-faced mylar layer, providing high-density acoustic control for both industrial and commercial applications. Its flexible roll format allows it to wrap smoothly around pipes and ductwork, serving as a sound deadening duct wrap, air duct wrap, and pipe soundproofing wrap.

The B10LAG system blocks airborne and mechanical noise while also improving thermal performance by reducing heat loss in hot piping and chilled water lines. Fire-rated to ASTM E84 Class 1 standards and resistant to moisture, chemicals, and wear, it delivers long-term durability for both indoor and outdoor pipe wrap applications. Installation is quick, requiring only matching tape to seal seams over existing insulation, minimizing operational downtime.

## **RESULTS:**

- Reduced airborne and structure-borne noise across production floors
- Improved worker communication and comfort
- Enhanced thermal insulation for process piping and HVAC systems
- Reliable, long-lasting acoustic pipe and duct wrap solution