



Reducing Extreme Mechanical Noise at Titan Steel Corp.

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OVERVIEW

Titan Steel Corp. operates in a high-noise steel manufacturing environment where exposed piping, large exhaust ductwork, and heavy mechanical systems run continuously. In these facilities, uncontrolled mechanical noise can interfere with communication, increase worker fatigue, and elevate safety risks.

Steel manufacturing environments demand solutions that perform reliably as both soundproof pipe and duct wrap and thermal insulation. Any noise control system must withstand high heat, constant vibration, and rugged industrial conditions while delivering consistent performance over time.

CHALLENGES

High-velocity ducts and industrial piping transmitted vibration and airborne noise across production areas, allowing sound to travel far beyond its source. The facility required a pipe soundproofing wrap that could provide effective HVAC noise blocking, reduce structure-borne vibration, and improve thermal efficiency.

Additionally, the solution needed to install quickly without requiring extended shutdowns or structural modifications—ensuring production schedules were not disrupted.

SOLUTION:

All Noise Control installed ANC-B10LAG2 (B10LAG) soundproof duct wrap on HVAC ductwork, mechanical piping, pumps, valves, and duct transitions throughout the facility. The fiberglass pipe wrap and fiberglass duct wrap layers absorb vibration and mechanical noise, significantly reducing sound transmission through metal systems.

The integrated loaded vinyl barrier blocks airborne noise, delivering reliable sound deadening duct wrap performance across both ducts and pipes. With an R-value of 9, the HVAC duct insulation wrap improves thermal performance by reducing heat loss and stabilizing system temperatures in high-heat manufacturing processes.

The moisture-resistant, fire-rated design allows the HVAC wrap to perform consistently in indoor mechanical spaces as well as demanding outdoor pipe wrap conditions typical of steel manufacturing operations.

RESULTS:

- Reduced HVAC noise through effective soundproof duct wrap
- Improved worker comfort and safety using acoustic pipe and duct wrap
- Enhanced thermal efficiency and long-term durability
- Fast installation with minimal operational disruption