



Preserving Luxury Quiet in High-Rise Living at Four Seasons Hotel & Tower Miami

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OVERVIEW

Four Seasons Hotel & Tower Miami is a premier high-rise destination combining luxury hospitality, residential living, and mixed-use amenities. Delivering an exceptional guest and resident experience requires precise control of mechanical noise while maintaining consistent indoor comfort across all spaces.

High-rise buildings depend on extensive HVAC ductwork, air duct wrap, and mechanical piping that run vertically and horizontally throughout the structure. Without proper acoustic pipe and duct wrap, vibration and airflow noise can easily travel between floors, affecting guest suites, residences, and shared areas.

CHALLENGES

Mechanical noise generated by HVAC fans, duct transitions, and piping created the risk of sound transmission into guest rooms and residential units. The system also needed to function as an effective HVAC duct insulation wrap, providing condensation prevention and energy efficiency in Miami's humid coastal climate. Durability and moisture resistance were critical requirements for long-term performance.

SOLUTION:

All Noise Control installed ANC-B10LAG2 (B10LAG) acoustic pipe and duct wrap across HVAC ductwork, mechanical piping, and key equipment connections throughout the tower. The system's two-inch thick fiberglass duct wrap absorber acts as a vibration decoupler, reducing airflow noise and mechanical resonance at the source. Bonded to this layer is a high-density loaded vinyl barrier that delivers reliable HVAC noise blocking by preventing airborne and structure-borne sound from escaping ducts and pipes.

With an R-value of 9, the HVAC wrap enhances thermal efficiency by reducing heat loss from hot piping and preventing condensation on chilled water lines. Its moisture-resistant, fire-rated construction makes it well suited for mechanical rooms, service corridors, and areas requiring dependable outdoor pipe wrap performance in coastal conditions.

RESULTS:

- Improved acoustic comfort for hotel guests and residents
- Reduced HVAC-related noise complaints
- Enhanced energy efficiency and condensation control
- Premium soundproof pipe and duct wrap solution for luxury buildings