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≡ CASE STUDY ≡

AEROSEAL PROVES TO BE THE IDEAL ENERGY-SAVING SOLUTION FOR HISTORIC LANDMARK BUILDING

120-year old apartment building receives dramatic HVAC repair and upgrade while maintaining historic integrity of the structure's interior and exterior design

Haddon Hall was one of the first apartment buildings ever to be constructed in the Cincinnati metropolitan area. Built in the 1890s, the structure is listed on the National Register of Historic Places and represents a significant part of the city's architectural history. But for its new owners of what now serves as section 8 housing, Haddon Hall was a woefully inefficient building with costly energy bills. For its 200+ residents, the building, while charming, was inadequately heated in the winter and way too hot in the summer.

Green Solutions, a local energy auditing company was brought in to solve both the energy efficiency and indoor comfort problems. To add to the challenge, they had to solve these issues without disrupting the historic aspects of the building.

In Brief

Building: Haddon Hall Apartments, Cincinnati, OH
Owners: Wallick Communities
Aeroseal Specialists: Greene Solutions LLC
Goal: Reduce energy usage / Increase IAQ
Caveat: Maintain the historic aspects of the building
Before Aeroseal: 3,361 total CFM* of leakage
After Aeroseal: 234 CFM / 93% reduction in leaks
Results: A lower utility bill means the sealing will pay for itself in about five years – then it's all savings. The upstairs units were now as cool as those next to the air conditioning unit in the basement. No disruption to the building's historic architecture.

**Cubic feet per minute*

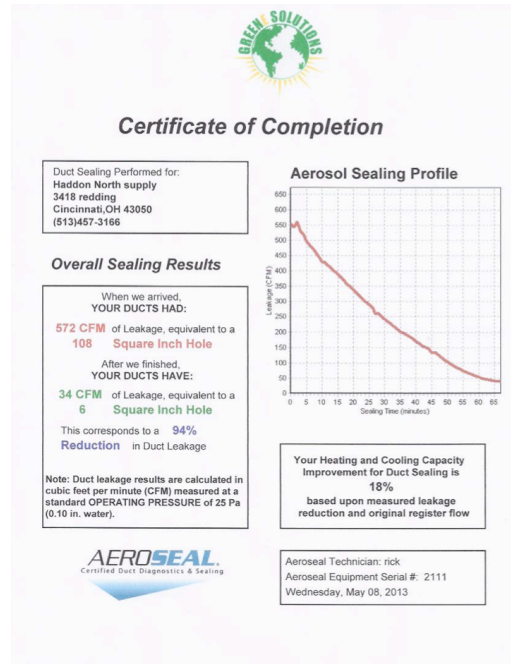


An energy audit showed that the current HVAC system was losing more than 3,000 CFM of treated air – the equivalent to a 637-square-inch hole in the ductwork. Greene Solutions used Aeroseal to reduce leakage to just 234 CFM – a 93% reduction. Since Aeroseal seals from inside the ductwork, none of the existing structure had to be torn down to access the leaks.

Quotes

“After we arosealed the ductwork, we quickly began to receive comments about how much cooler it was on the top floors. Long-time residents noted that they were feeling the air conditioner in places it never seemed to reach before. One employee told me that for the first time ever, she had to ask to have the air conditioner turned down.”

Matt Shoemaker, vice president of development, Wallick Communities



Example of results: computer printout from one of the five separate duct systems sealed with Aroseal. Before - 572 CFM of leakage. After – 34 CFM.

“I’m completely sold on Aroseal. By reducing CFM leakage by such a significant amount, we calculate that Aroseal provides a savings-to-investment ratio of about 3. In other words, a homeowner can expect to get 3 times their cost in savings over a 15-year period. That’s about as good of an investment as you can make.”

Ryan Scalf, energy advisor and project observer from the Greater Cincinnati Energy Alliance

“As energy auditors we find duct leakage to be the most significant cause of energy waste in most homes today and Aroseal the ideal service to offer home and building owners concerned about energy efficiency or indoor comfort. The Haddon Hall owners were so impressed with the results they got from Aroseal that they are now looking at similar projects for their other properties.”

Rick Greene, energy auditor and Aroseal dealer, Greene Solutions

For more information on the Haddon Hall duct sealing project or about Aroseal in general, contact Aroseal at (937) 428-9300. You can also visit the Aroseal website at www.aroseal.com.

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