# Case Study

## Syracuse University Campus West

## Syracuse University Housing Qualifies For Energy Rebate With Aeroseal

When building the new dormitory for Syracuse University graduate law students, general contractor Hayner-Hoyt Corporation was looking to meet high standards for energy efficiency. 10 CFM of air duct leakage or less – that was the goal.

To qualify for a rebate under New York State's NYSERDA program for new construction, they would have to exceed SMACNA standards, surpass LEED for Homes certification criteria and meet that 10 CFM per floor requirement. There was only one possible way they could do it – Aeroseal. The new four-story building includes 200 graduate student apartments.

Its massive ductwork consists of seven individual rooftop energy recovery ventilation systems. The bathroom exhaust and outside air supply ductwork extended horizontally and vertically to each water-source heat pump HVAC unit and bathroom. Each shaft is completely sealed in sheetrock and protected with fire smoke dampers.

Knowing from the start that it would need to meet stiff requirements for air duct leakage, Century Heating and Air Conditioning was careful when originally constructing the duct system.

Still, post-construction tests showed unacceptable levels of leakage when work was first completed. After weighing various options, Century determined Aeroseal was the only viable solution.

The company decided to invest in training and learned to apply the duct sealant themselves. Once started, work on the entire building structure was completed in a few short days.

> *As energy efficiency standards become increasingly stringent, we will need to turn to new technologies like Aeroseal. It was a game-changer for this project and a key to our ability to meet the NYSERDA requirements.*
>
> ***Sam Doss** - Project Manager*
> Hayner Hoyt Corporation

## PROJECT OVERVIEW

### Syracuse University Campus West

**LOCATION**
Syracuse, New York

**AEROSEAL CONTRACTORS**
Century Heating & AC

**CONTRACT ENGINEER**
Hayner Hoyt Corp.

**GOAL**
Score $170,000 rebate under NYSERTA; requiring air duct leakage of 10 CFM or less

**BEFORE AEROSEAL**
Average 120 CFM* of leakage

**AFTER AEROSEAL**
10 CFM of leakage or less

**RESULTS**
Even after meticulous construction, the use of Aeroseal was the only solution to meeting new stringent duct leakage requirements

*Cubic feet per minute

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## Verifiable, Guaranteed Results

> *Century Heating and Air Conditioning realized that Aeroseal is quickly becoming a mainstream solution for energy efficient construction and will play a vital role in helping contractors meet the ever-increasingly stringent standards for compliance. The company first used Aeroseal to qualify for a substantial rebate program and is now considering it for every job they do.*
>
> ***Robert Seals***
> Aeroseal, LLC

> *Aeroseal provided the lowest leakage rates we've seen for any duct system at anytime, anywhere. Energy conservation guidelines are only getting tougher and the most stringent requirements today will soon become standards for all future buildings. We've found Aeroseal duct sealing to be an absolute necessity to meet today's toughest energy conservation programs and I believe the technology will soon become a standard practice used in all new constructions.*
>
> ***David Wildrick** - Engineer*
> Century Heating and Air Conditioning

*Aeroseal has four different models to calculate duct leakage and inform energy savings on your project.*

### Reduce Energy and Consumption Cost

Duct sealing addresses multiple sources of energy waste. For example, by reducing leaks 15%, fan requirements drop by 40% or more. This saves thousands of dollars every month.

Aeroseal increases HVAC fan efficiency and eliminates excess ventilation load to reduce energy costs. It is a verifiable and guaranteed way to offer energy savings with typical payback in three to five years.

### Improve Indoor Air Quality

Leaks in the return duct allow dust and other contaminants to be sucked into the duct system and spread throughout the facility. And exhaust fans can't remove contaminated air from the building if there are leaks in the ventilation shaft.

### Improve Building Ventilation

Leaky ductwork is the primary cause of ineffective building exhaust. In addition to causing problems with uneven and uncomfortable temperatures, this can lead to higher energy costs, and added maintenance costs.

### Meet Code and Spec

As duct leakage specifications get tighter and tighter, Aeroseal is specified as a routine component of commercial projects. Our consistent results will take you from hoping to knowing that you'll meet code requirements – the first time.

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