

≡ **CASE STUDY** ≡

**SYRACUSE UNIVERSITY'S NEW LAW SCHOOL HOUSING
QUALIFIES FOR STATE ENERGY REBATE WITH AEROSEAL**

**Breakthrough Duct Sealing Technology Proves To Be Key To Meeting
New York's NYSERDA Rebate Program For Energy Efficient Buildings**

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

In Brief

Building: Syracuse University Campus West

General Contractor: Hayner Hoyt Corp.

HVAC Installation: Century Heating & AC

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.



The new 4-story building includes 200 graduate student apartments. Its massive ductwork consists of seven individual rooftop energy recovery ventilation systems. Both the bathroom exhaust and outside air supply ductwork extended both 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 that the only viable solution was to use AeroSeal to seal the building's duct system from the inside. 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.

Quotes

“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, Syracuse, New York

“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

“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 – The Technology

- Developed at Lawrence Berkeley National Laboratory in 1994.
- Research for Aeroseal was partially funded by the U.S. Department of Energy.
- Aeroseal is the only duct sealant technology that is applied from the inside of the duct system. It is delivered as a non-toxic aerosol mist that seeks out and plugs leaks.
- Aeroseal has proven to be 95% effective at sealing air duct leaks.

For more information on the University of Ottawa Heart Institute’s duct sealing project or about Aeroseal in general, contact Bob Soffel at 502.512.1033 // Bob@ces.works // www.ces.works // Critical Environmental Solutions is Kentuckiana's Commercial Aeroseal Dealer. You can also contact Aeroseal at (937) 428-9300. You can also visit the Aeroseal website at www.aeroseal.com.

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