



Case Study

Licking Heights Elementary School

School District Saves \$45,000 Annually On Energy Bill After Having First Of Several Schools Aerosealed

U.S. Department of Energy Ranks New Duct Sealing Process Top Strategy For Reducing Energy Costs: Potential To Save U.S. Building Owners Billions Each Year

The new superintendent at Ohio's Licking Heights school district thought the cost for heating and cooling all 5 of its school buildings was high, but one 7-year-old elementary school in particular stood out. Its energy bills were double that of a similar school just down the road. It was also plagued by uneven heating.

To keep warm, students and teachers in the far wing of the building often wore hats and coats during class. An energy audit revealed that, like most U.S buildings today, each school in the district was losing about 30% or more of treated air through leaks in the ductwork.

West Elementary School was particularly problematic – losing more than 50% of treated air through duct leaks. Several options for fixing the problem were considered but in the end, due to several factors, including lower cost, limited disruption and a strong guarantee, it was decided to use Aeroseal, an innovative aerosol-based duct sealing technology developed by the U.S. Department of Energy.

The entire project was conducted over the winter holiday recess. Teachers and students came back to a very different situation. For the first time, all of the classrooms were warm and comfortable. Thermostats were turned down.

Fan power was reduced. With the ductwork effectively sealed, the school district estimates that it will save about \$45,000 each year on its utility costs. It is now looking at having its other 4 schools aerosealed as well.



It certainly helped that the aeroseal solution would cost less and take a lot less longer to do than the other options on the table. But a strong guarantee and testimonials from other customers really sealed the deal. Once they saw the tremendous difference it made to both energy savings and system performance, we knew this was just a door opener. We are now looking at doing similar work for the other buildings in this school district, and as word gets out about the tremendous savings Licking Heights achieved, we are finding similar interest from other area school districts as well.

Tony Furst - Solutions Engineer
Bruner Corporation



PROJECT OVERVIEW

West Elementary School (K-2)

LOCATION

Blacklick, Ohio

BEFORE AEROSEAL

Losing 55% of treated air

COMMISSIONING FIRM

Heapy Engineering

AFTER AEROSEAL

Delivering 98% of treated air

HVAC SOLUTIONS PROVIDER

Bruner Corporation

RESULTS

Reduced duct leakage by 27,350+ CFM. Reduced energy bill by \$45,000/year. Eliminated uneven heating issues.

GOAL

Reduce energy costs / fix uneven heating

*Cubic feet per minute



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Licking Heights Elementary School

Verifiable,
Guaranteed Results

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I am always skeptical about claims that sound too good to be true, so when I first heard about Aeroseal, it was originally, in my mind, the least appealing option. But after doing some research and learning about its use at other education facilities, including an Ohio State University dormitory, it quickly became the solution of choice. In the end, this was one of the smoothest projects we've ever had done at this school. It came in within budget and on time. The results met every expectation and then some.

Dr. Philip Wagner - Superintendent
Licking Heights School District

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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