

# CASE STUDY

## Pennsylvania Correctional Facility

### Pennsylvania Correctional Facility Saves \$7000/Yr Using Aeroseal

ESCO turns to Aeroseal duct sealing as an ECM and improved HVAC performance.

When one of the industry's most respected facility services providers was asked to make energy-efficient upgrades to a correctional facility (prison) in Pennsylvania, it had two key issues in mind. First, the services provider knew that the facility would be occupied during renovation, so limiting disruptions and health risks to the occupants was essential. Second, working as an ESCO, the company also knew it had to deliver on modeled energy savings or face paying the difference out of its own pocket.

Unlike manual duct sealing methods, Aeroseal is a computer-controlled aerosol-based sealing process that works from inside the duct system to simultaneously find and seal leaks. This inside-out approach makes accessing the entire duct system more simple and demolition-free. The ESCO had used Aeroseal in the past to seal the ductwork in hospitals, laboratories and other highly sensitive

environments. Plus, the product is safe even for building occupants (e.g. prison inmates, hospital patients) that cannot leave the facility during the procedure. With confidence, the ESCO called a local Aeroseal contractor PLD Associates to do the work.

PLD used foam blocks to isolate the area of ductwork to be sealed and then connected the Aeroseal system to the duct via a long, flexible tube that ran from the sealing equipment to a temporary access hole cut into the ductwork. Once setup was completed, a switch was flipped and sealant was blown down the tube and into the duct interior.

In a single afternoon, the sealing was completed, and the ESCO was able to reduce overall leakage by 90%. Post-seal leakage analysis showed annual energy savings to be 400% more than originally estimated and a payback period (ROI) of less than four years – all done without health risks, demolition, or any other disruption to normal operations.

**Use Aeroseal On Your Next Job For Faster, Guaranteed Results!**  
**CALL: 877-FIX-DUCT or VISIT: [www.aeroseal.com](http://www.aeroseal.com)**



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### PROJECT OVERVIEW

#### BUILDING

Correctional Facility

#### LOCATION

Pennsylvania

#### AEROSEAL CONTRACTORS

Large energy services company (ESCO)

#### CONTRACT ENGINEER

PLD Associates

#### GOAL

Energy savings with minimal disruption

#### BEFORE AEROSEAL

2,450 CFM of leakage

#### AFTER AEROSEAL

256 CFM of leakage

#### RESULTS

Through duct sealing alone, the ESCO saved its client \$7,000+ annually, with an ROI of less than 4 years



We have used Aeroseal in the past and knew it was really the only viable, cost-effective means of sealing air leaks in existing ductwork that is hard to access. We guarantee estimated savings, so it's imperative that we get real results – and we know that there is nothing more effective at finding and eliminating all the leaks than Aeroseal.

**ESCO Project Manager**