

CASE STUDY

Miami Valley Regional Crime Lab

Ohio Coroner-Crime Lab Improves Indoor Air Quality Using AeroSeal

The Miami Valley Regional Coroner-Crime Lab in Dayton, Ohio Fixed Odor Issues by Sealing Its Ductwork Using AeroSeal

When dead bodies are found in Ohio's Montgomery County, they are sent to the Miami Valley Regional Crime Lab for autopsy. For years, occupants of the three-story facility knew whenever a new body arrived because the strong smell of the decomposing corpses would permeate the building. Despite spending hundreds of thousands of dollars over a period of years trying to solve the problem, nothing seemed to work. The facilities staff tried replacing the heating, ventilation, and air conditioning (HVAC) equipment, installing high-efficiency fans, adding an exhaust system incinerator, and insulating the walls. The odor issue was still there.

When a third engineer was hired to address the problem, they knew AeroSeal was the answer. Service Tech Corporation took only two days to completely seal the supply and exhaust ductwork using AeroSeal. The final report generated by the

computer-controlled sealing system showed a 98% reduction in leakage. More importantly, the facility director and the building's occupants declared the odor problem 100% solved.



Sealing the ductwork using AeroSeal not only solved our critical ventilation issue, but it allowed us to lower fan speeds while increasing HVAC efficiency. There is no doubt that the duct sealing process had a significant impact on reducing energy usage and saving the county money.

Jeff Hatton
Energy Management
Montgomery County Government

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PROJECT OVERVIEW

BUILDING Miami Valley Regional Crime Lab	BEFORE AEROSEAL 988 CFM of leakage
LOCATION Dayton, Ohio	AFTER AEROSEAL 43 CFM of leakage
AEROSEAL CONTRACTORS Service-Tech Corporation	RESULTS Sealed the building's air duct system to 96% reduction in leakage; Eliminated the migration of odors throughout the building via duct leakage
GOAL Fix odor issues and improve ventilation in local government building	



We had leaks in the ventilation system that allowed the spread of odor throughout the entire building, but there was no way we could access and seal the ductwork without completely tearing down the entire structure. Over several years, we spent well over a hundred thousand dollars in new equipment and outside consultants trying to solve the problem, but nothing worked. Then we tried AeroSeal, and the problem was solved. I wish all of our projects went this fast and smooth. The AeroSeal team was 'in-and-out' in just a couple of days. Any ductwork that has been installed manually has leakage issues. I'm looking at using AeroSeal to seal the air ducts throughout many of our facilities.

Bill Epperson
Associate Engineer
Montgomery County Government