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== CASE STUDY ==

**FLORIDA STATE CAPITOL RETROFIT USES AEROSEAL
TO SAVE TIME, LOWER COSTS AND ENSURE CODE COMPLIANCE**

The Florida State capitol building is the centerpiece of downtown Tallahassee. The 22-story structure towers over the entire city as it serves as Florida’s home to its executive and legislative branches of state government. During a building retrofit project involving several of the building’s bathrooms, engineers noted that much of the existing exhaust ductwork had never been sealed. Aside from building code regulations that require sealed ductwork, the contractors knew that sealed ducts are paramount to maintaining and ensuring proper exhaust. So while new fans and other equipment were being spec’d in to the original contractor bids, lead engineers familiar with AeroSeal also specified that the pricing of the innovative duct sealing solution be included in the selection process.

In Brief

Building: The new Capitol Building
Location: Tallahassee, Florida
Duct Specialists: TruSeal
Engineer of Record: H2Engineering Inc.
Mechanical Contractor: Parker Services
Goal: Seal existing ductwork at minimal cost and disruption.
Before AeroSeal: 592 CFM of leakage
After AeroSeal: 97 CFM of leakage
Results: 85% leak reduction. Estimated cost 30% less than traditional duct sealing methods. No disruption.



AeroSeal was compared head-to-head with bids for traditional sealing – and won the contract. It not only proved to be the lowest cost solution to sealing the existing ductwork, but its unique from-the-inside application offered several other advantages, including a substantially faster completion time and minimal disruption to the building’s regular functioning.

A two-man crew from TruSeal of Florida sealed nine bathroom exhaust shafts over a single weekend. The total cost for the project was estimated to be around 30% lower than the average bid for traditional duct sealing. Since the aeroSeal process includes pre- and post-leak testing, the additional costs associated with typical third-party testing were also eliminated. Most importantly, all of the ducts were effectively sealed, and proof of code compliance was assured.

The engineers plan on using AeroSeal for future retrofit project at the Capitol and for other duct sealing projects.

Quotes

“The reason we went with AeroSeal is that it is so much easier to apply in an existing building. Unlike traditional manual sealing, we did not have to remove the ceiling tiles, unwrap and rewrap insulation or deal with other obstacles. It was all done quickly and without interruption to the rest of the building.”

Dan Henderson
Project Engineer
H2Engineering Inc.

“The built-in verification aspect of AeroSeal is a real time and cost saver. Ductwork testing after sealing is all part of the normal AeroSeal process so we didn’t need to hire an additional contractor to ensure the sealing was effective. It was pretty clear that there was going to be substantial savings with AeroSeal.”

Jeremy Parker
Mechanical Contractor
Parker Services

“The engineers were happy. The mechanical contractors were happy. Everyone was surprised how fast and unobtrusive the entire process turned out to be. We will be doing the rest of the building once they are ready to continue with more duct sealing, and I expect the positive impression we made on this project will lead to more opportunities right around the corner.”

Heath Allbaugh
Certified TAB and Duct Sealing Specialist
TruSeal

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 duct sealant technology 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 Florida State Capitol Building project or about AeroSeal in general, contact AeroSeal at (937) 428-9300. You can also visit the AeroSeal website at www.aeroseal.com.

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