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== CASE STUDY ==

TORONTO'S ULTRA-LUXURY CONDOS TURN TO NEW DUCT SEALING TECHNOLOGY TO MEET BUILDING SPECIFICATIONS

Improving Air Flow In Newly Built MuseumHouse Required Major Teardown And Rebuild Work -- Until Aroseal Provided A Way To Seal Duct Leaks From The Inside

The MuseumHouse is a centerpiece of luxury living located on Toronto's prestigious Bloor Street West. At \$2 million to \$12 million apiece, each condo apartment offers residents a stunning panoramic view of the city, a private elevator, a grand terrace, and sparkling glass walls. Until recently, it also came with excessively leaky ductwork. In order to pass its performance audit and meet air handling specifications, owners of this newly constructed high rise had a choice: either tear down the interior drywalls and manually seal each of the building's 25 individual duct systems, or use Aroseal. Aroseal was used to quickly seal the leaks and get the HVAC system working to specification. No costly renovation required.

In Brief

Property Owners: Yorkville Corporation
Engineers: Yorkville Construction
Aroseal Experts: JW Danforth
Type: 19-story / 27 unit luxury condominium
Goal: Meet air handling specifications
Before Aroseal: Up to 300+ CFM* of leakage
After Aroseal: Average leakage: 6.5 CFM
Results: Reduced average leakage by 90%

**Cubic feet per minute*



Lobby of The MuseumHouse
Luxury Condominium Living

Aroseal works from the inside of the ductwork to seal leaks. The furniture, artwork and other valuables in the occupied apartments were first covered in plastic and filtration fans were used to catch any errant sealant particles, minimizing cleanup requirements. Then the aroseal sealant was sprayed throughout the inside of the ductwork. Average time required to seal an apartment from beginning to end – including cleanup: one day. Average results: 90% of leakage eliminated, reduced air loss from 300 CFM (cubic feet per minute) to 6.5 CFM. Armed with Aroseal expertise, the HVAC contractors have become an increasingly popular group as word of their unique capabilities spreads.

Quotes

“Aeroseal was the only viable option there was. Our only other alternative was to tear down the walls inside each apartment and seal the individual duct systems manually. From a purely monetary standpoint, this approach saved us hundreds of thousands of dollars in renovation costs. Aeroseal works – and works very well, reducing average leakage from about 300 CFM down to around 6 CFM.”

David Hart, project manager, Yorkville Construction

“Even if we were able to access the ductwork to manually seal the leaks, the design of the building itself would have made the work impossible. The space between the duct system and the surrounding structures left no room to get sealant on all sides of each joint. The unique supply grill left little space to reach the leaks typically found there as well. By sealing from inside the ductwork, Aeroseal made us heroes. It allowed us to access all the leaks while leaving the walls and all the beautiful detailing intact.”

Ken Kwasniak, service operations manager, JW Danforth

“Aeroseal saved The MuseumHouse thousands of dollars in project costs while proving minimally disruptive to its residents. It allowed the building engineers to easily get the HVAC system well under legal specifications and is about to save condo owners hundreds of dollars each year in utility costs.”

Neal Walsh, vice president, 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.
- The Department of Energy proclaimed aeroseal technology to be one of the top 23 most important energy conservation technologies for consumers to come out since the department was first established.
- Aeroseal has won several prestigious awards including DOE energy 100 Award, Popular Science – Best of What’s New, This Old House – new technologies and 2012 EBie award for use on an existing building retrofit project.

For more information on the 600 Steamboat Rd. project or about Aeroseal in general, contact Brad Brenner at (503) 736-0610 or email brad@brennerassociates.com. You can also visit the Aeroseal website at www.aeroseal.com.