



Case Study

Sutter Solano Medical Center

Sutter Solano Medical Center Meets Codes Using AeroSeal

It was late on a Friday afternoon when Mark Avila, president of Air Seal Solutions, got a call from a distraught mechanical contractor. After working for weeks on a new ventilation system at Sutter Solano Medical Center, its ducts weren't sealed tight enough to draw sufficient air through the system or to pass local OSHPD code.

And now, with walls hiding the ductwork and limited space between the newly installed duct and the ceiling, several subsequent efforts at re-sealing the ductwork proved increasingly futile. Worst of all, final inspection was scheduled for the following Monday so the contractor had to have the system up and running properly by the end of the weekend.

Avila explained the AeroSeal process to the contractor and arrangements were made for the Air Seal Solutions team to begin work the following day. They arrived at 8:00 am Saturday morning and went to work.

First they temporarily blocked the effected registers and the ductwork just short of the autoclave connected the AeroSeal equipment to the top of the exhaust duct.

With a flip of a switch on their computerized duct sealing system, they were able to measure the leakage rate; a substantial 650 CFM – about 50% of the total system output.

With another flip of the switch, Avila's team began the sealing process – blowing microscopic particles of sealant into the interior of the ductwork where they automatically sought out and sealed the tiny holes that riddled the system. By 3:00 pm that afternoon, the ductwork was completely sealed. Readings showed that there was now less than 1% of leakage.



I focus exclusively on healthcare facilities and I think that any one of my clients would have an application for this technology. If this (sealing project) was done manually, it would have potentially taken weeks rather than a couple of days to complete.

Sean MacBride - Owner
Rymac Inc.



PROJECT OVERVIEW

Sutter Solano Medical Center

LOCATION

Vallejo, California

AEROSEAL CONTRACTORS

Air Seal Solutions Corp.

CONTRACT ENGINEER

Superior Mechanical Services Inc.

GOAL

OSHPD compliance via reducing duct leakage

BEFORE AEROSEAL

653.3 CFM* of leakage

AFTER AEROSEAL

0 CFM of leakage

RESULTS

OSHPD compliant.
\$1,438/year cost savings

*Cubic feet per minute





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Sutter Solano Medical Center

Verifiable,
Guaranteed Results



The technology is really quite amazing. Because of how the existing duct was sandwiched into the ceiling, along with pipes and electric conduits, there was simply no room to manually seal.

But the hospital didn't want to hear that there was a problem – they wanted results; results we couldn't achieve. Then with Aeroseal, the problem simply went away. It really saved our backside. Aeroseal was able to do in a single afternoon what we couldn't accomplish in weeks of manual sealing and resealing.

Ron Lynch - Project Manager
Superior Mechanical Services

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.



225 Byers Road, Suite 1 | Miamisburg, OH 45342

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