



# Technical Bulletin for Envelope Sealing with Aeroseal®

**DEALER ALERT**

## Pressurizing Envelope with Multiple Fans

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### BACKGROUND

This Technical Bulletin is for users of AeroBarrier Select or AeroBarrier Connect systems.

Before starting a job, it's important to evaluate the square footage of the space to be sealed. For large envelopes, typically greater than 6,000 sq. ft., one fan may not produce enough airflow to pressurize the space. It may be necessary to use one or more additional fans to get the pressure to an acceptable level.

This bulletin guides the hardware setup and software operations of multiple fans in an envelope.

### PROCESS IMPROVEMENT

In a large residential or commercial envelope, adding one or more fans will increase airflow and get the envelope pressure to acceptable levels: >10 Pa for sealing and >5 Pa for testing.

### EQUIPMENT REQUIREMENTS

When prepping for the sealing event, please note that the extra equipment must match the current system. For example, AeroBarrier Select must be paired with another AeroBarrier Select. Mixing fan types and models will affect flow calculations.

### NOTIFICATIONS

Seal events are managed and monitored by the AeroSuite software loaded to the Aeroseal laptop. Air pressure monitoring is a key component of AeroSuite.

Notifications to the technician display in the AeroSuite dialog box. These pop-up messages can be seal process reminders or system alerts.

Events that may cause an alert are envelope pressure is too low and the envelope is overpressurized.

### CONTACT US

If you have any questions, please contact **Technical Support at 1-800-772-6459**.

*Continued on Page 2*

**HARDWARE SETUP**

Step	Action
1	Install two blower door frames and fan assemblies in the envelope along with respective MCU and Laptops.
2	Follow standard procedures to set up the seal stations.
3	Ensure fans are set to the open ring setting.
4	If a fan is offline, make sure to block any backflow of air into the fan. This can include throttling the layflat, blocking the inlet ring, or taking the booster fan offline.
5	When operational, ensure fans are set to 100% in the software.

**SOFTWARE SETUP**

To setup the software, assign a system as the main or primary system. The primary system will use the laptop and software to report total flow and leakage values of the envelope. The primary system controls the primary fan. Set additional fans to 100%.

**PRESEAL PROCESS**

Step	Action
1	Start the AeroSeal process with one fan. <b>Note:</b> Booster fan(s) are needed if the envelope pressure cannot reach a minimum of 5 Pa for leakage test and 10 Pa for sealing.
3	Add fan(s) until 10 Pa is reached. Sealing cannot proceed at less than 10 Pa. Other prep methods may be required to build pressure. <b>Note:</b> The PreSeal test can be completed with 5 Pa of envelope pressure.
5	Ramp up booster fans to 100% and set to open ring. <b>Note:</b> In the primary system, AeroSuite sets the fan speed to 100% automatically.
6	Select the number of fans. <b>Note:</b> Using multiple fans reverts all controls to the software, including ring setting, target pressure, and fan mode.

*Continued on Page 3*

SOFTWARE SETUP

Step	Action
7	Start the <b>PreSeal</b> test. <b>Note:</b> Target pressure is auto-calculated by the software.
8	Proceed to <b>Seal</b> after ensuring the seal stations are set up. <b>Note:</b> Fan settings carry over from the PreSeal screens.

**SEAL PROCESS**

- During the seal, make sure to monitor that fans are online and have not tripped the breaker.
- If more fans are added during the Seal, make sure the fans are set at open ring and running at 100%.
- If there is a need to enter the envelope, pause the software before opening the door.
- The default target pressure is 100 Pa.
- When using multiple fans, during any test, the ring setting, target pressure, and fan mode selection are disabled.
- If the pressure is >125 Pa, the system recommends removing a fan. It will continue to warn until >150 Pa. If the pressure >150 Pa, the seal is paused until fans are removed.

**POSTSEAL PROCESS**

**Note:** Fan settings carry over from the Seal process.

- For single fan operation, run the PostSeal on Auto and follow the recommended gate changes.