



2024

AeroSuite for AeroBarrier Select

2024

**| Process Change
Overview**

Seal Options



As we refine our process to provide the most accurate data to our installer partners, we are making some changes to the software platform which we feel will be beneficial.

There are now three pathways to complete a seal:

1. Current process with Leakage Assumption
2. Identifying Prep Leakage
3. Dealer defined leakage
4. Current Process without Leakage Assumption

The gold and silver lines are going away. We are moving to one target line which will be your inputted target. The progress on the graph will add in your prep leakage.

1 – Current Process with Leakage Assumption



The process to seal remains the same.

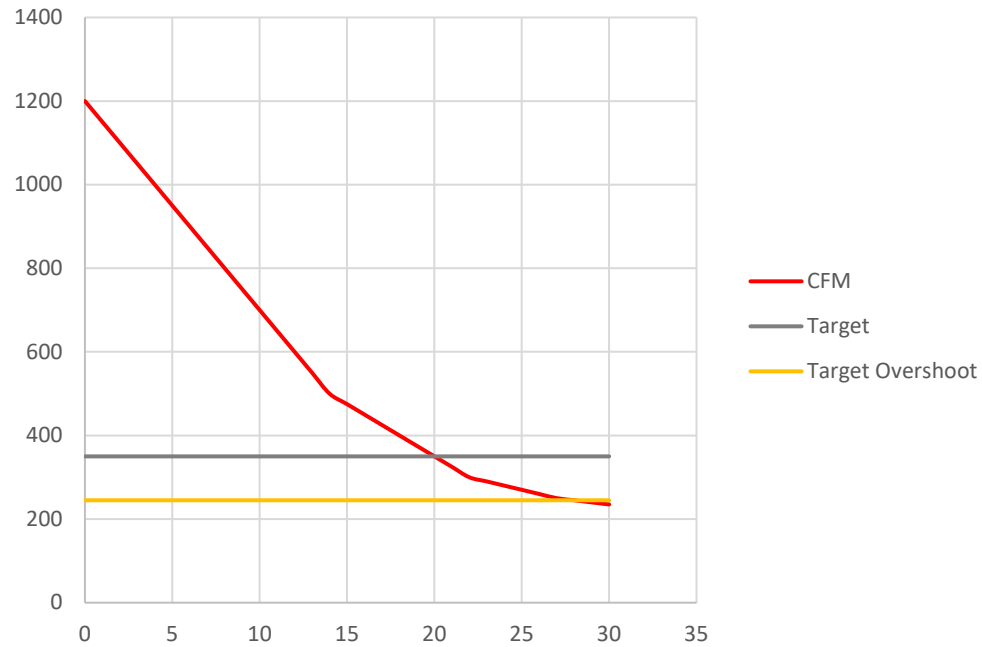
1. Prep the space
2. Pre-seal test (pressurization)
3. Seal
4. Post-seal test (pressurization)
5. Optional depressurization with pipe prep only

On Screen Progress = Recorded leakage / 70%

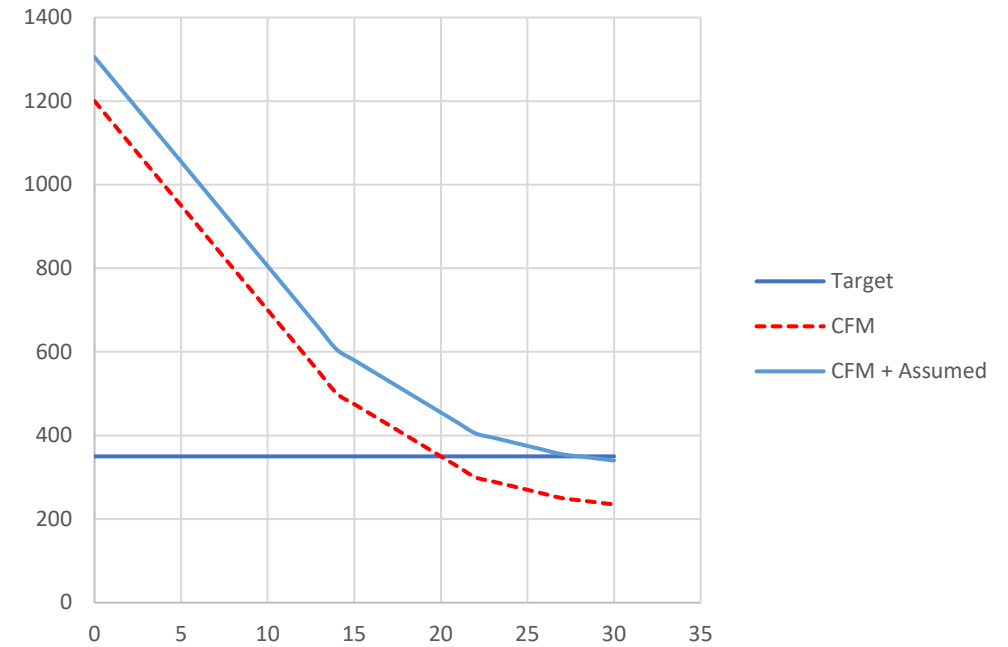
1 – Current Process with Leakage Assumption



SmartSeal Plot



AeroSuite Plot



Assumed Operational Leakage = 105 CFM50 (30% of Target)

2 – Identifying Prep Leakage



Understanding how much leakage we are covering with prep work is key to achieving our target air tightness. This new process involves an adjustment but should leave you more confident in what the house has achieved.

A Rater/verifier is going to test the house without any of our prep work being installed. Moving to test in an a more apples-to-apples environment will give us better alignment with the 3rd party testing results.

On Screen Progress = Recorded leakage + CFM₅₀ Delta

2 – Identifying Prep Leakage



1. Pre-seal test 1 with simulated prep only (pressurization)
2. Prep the space
3. Pre-seal test 2 with full prep (pressurization)
 - The system will calculate how many CFM₅₀ are covered by our prep, this delta will be used to set your target line. A warning will appear if the target is not achievable due to prep leakage exceeding the seal target.
4. Seal
5. Post seal test with full prep (pressurization)
6. Optional depressurization with pipe prep only

2 – Identifying Prep Leakage



- **Plumbing pipes**

 - Supply lines

 - Drains

Supply pipes are to be filled with pressurized water and drainpipes are to have P-traps filled with water per RESNET standards. We can simulate this by covering the pipe opening.

- **Exhaust openings**

 - Bath fans

 - Dryer vents

 - Range hoods

 - ERV/HRVs

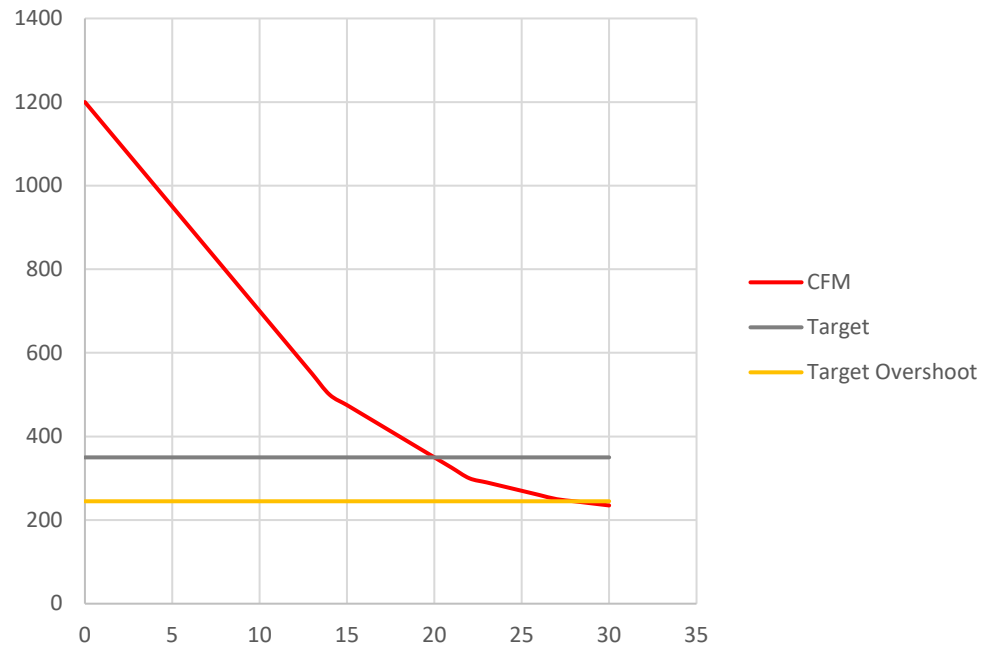
Exhaust fan dampers would be blown open during pressurization. Leaving them uncovered during the test would introduce leakage which is not present under depressurization.

**It is important to have the dampers installed so that a depressurization test will be successful.

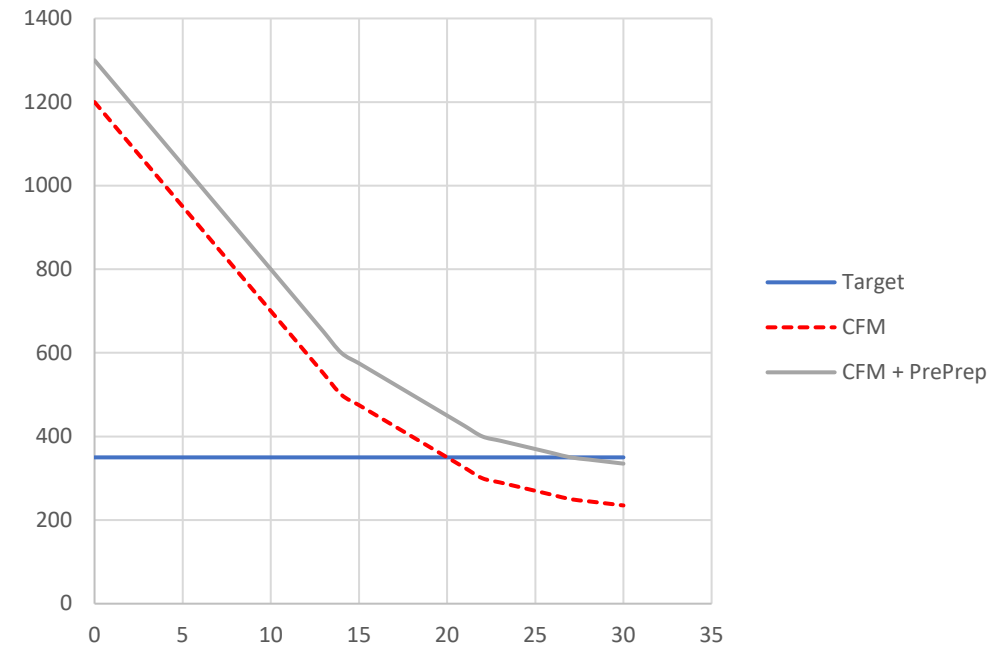
2 – Identifying Prep Leakage



SmartSeal Plot



AeroSuite Plot



PrePrep Test	1300	CFM50
Preseal Test	1200	CFM560
Operational Leakage	100	CFM50

3 – Dealer Defined Prep CFM



In a multifamily seal where a dealer will prep multiple units at once to speed the install process. In this situation, testing the prep leakage of each unit will slow the installation.

Once you know the prep leakage for one unit type, it is reasonable to assume a similar prep leakage for other units of the same type. You can enter a numeric value for CFM₅₀ of prep leakage and that will set the target line on the screen.

3 – Dealer defined prep CFM

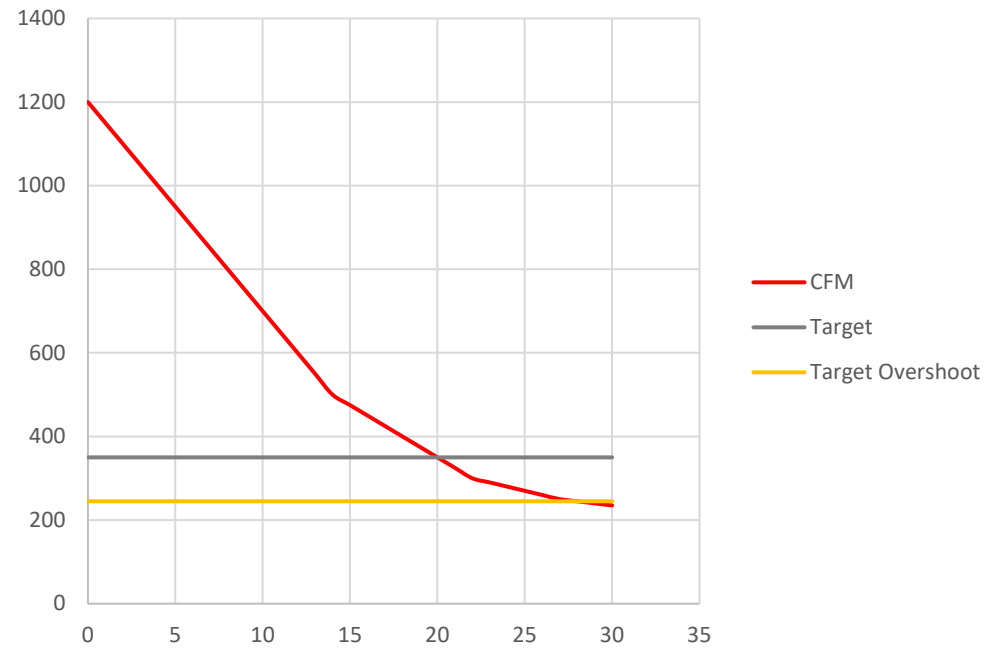
1. Prep the space
2. Enter Operational Leakage
3. Pre-seal test (pressurization)
4. Seal
5. Post-seal test (pressurization)
6. Optional depressurization with pipe prep only

On Screen Progress = Recorded leakage + CFM₅₀ Entered

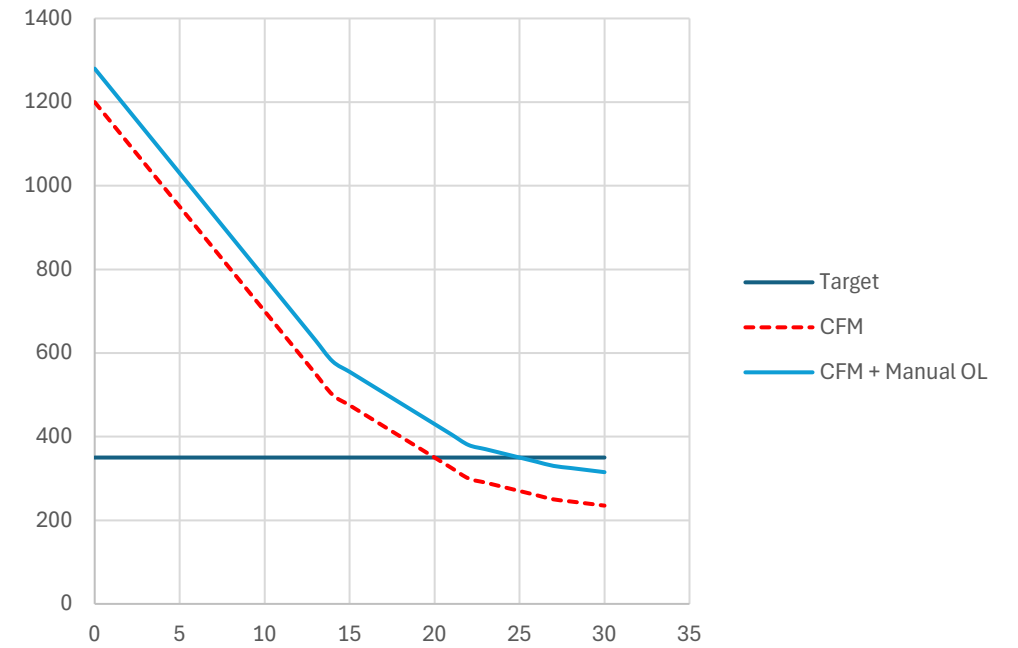
2 – Identifying Prep Leakage



SmartSeal Plot



AeroSuite Plot



Entered Operational Leakage = 80 CFM50

4 – Current Process w/o Leakage Assumption



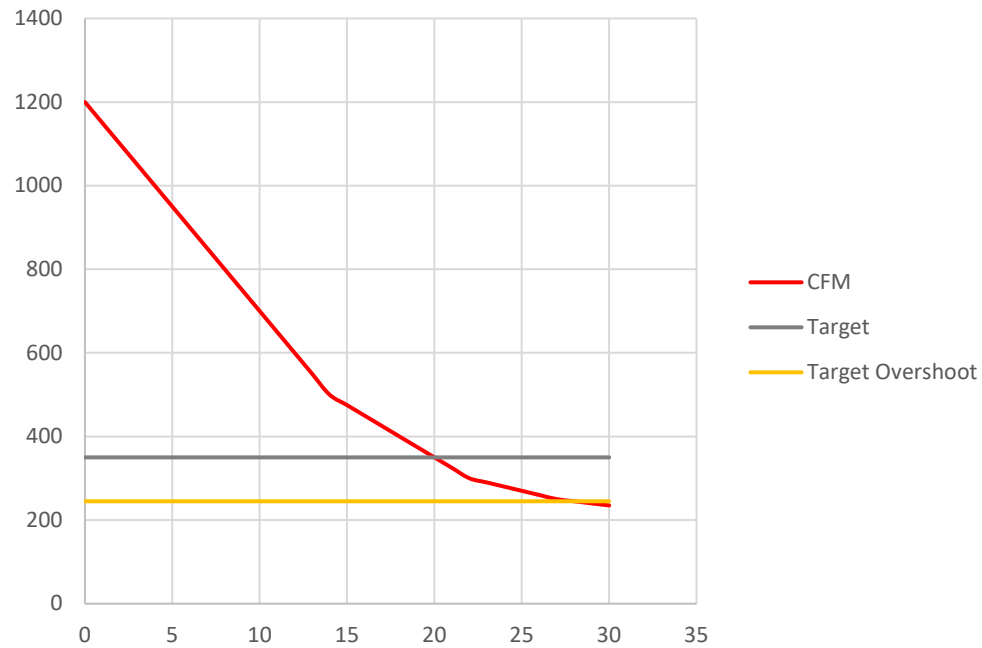
The process to seal remains the same.

1. Prep the space
2. Enter 0 Operational Leakage
3. Pre-seal test (pressurization)
4. Seal
5. Post-seal test (pressurization)
6. Optional depressurization with pipe prep only

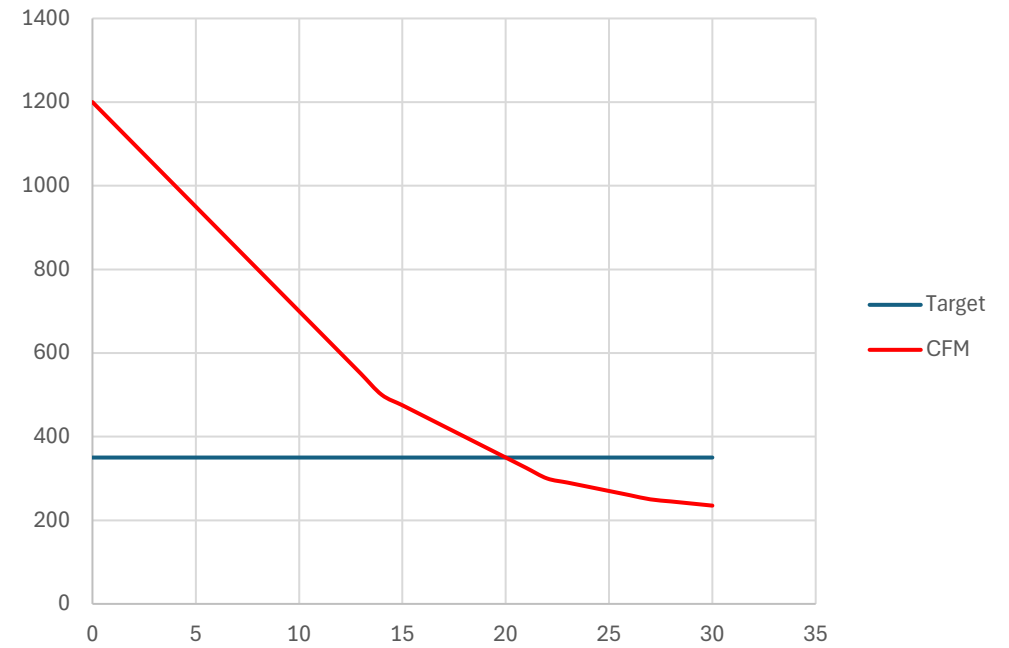
2 – Identifying Prep Leakage



SmartSeal Plot



AeroSuite Plot



0 Operational Leakage Considered

Depressurization Test Out



This is the most accurate representation of what a 3rd party Rater/Verifier is going to test. We have all explained to a dealer why our numbers are lower than a 3rd party, it is a reasonable explanation. However, it leaves room for a builder to assume that any difference between our tests is our fault, they don't know how much the delta should be.

1. Move the fan and MCU inside – blowing out
2. Remove all prep except pipe prep
3. Run the depressurized post-seal test

Seal Report



The seal report will show the improvement during the seal but the final test out number will be:

1. Current process with Leakage Assumption
Ending CFM₅₀ + 30% of target
2. Identifying Prep Leakage
Ending CFM₅₀ + measured prep delta
3. Dealer defined leakage
Ending CFM₅₀ + Dealer entered prep number
4. Current process without Leakage Assumption
Ending CFM₅₀

Examples

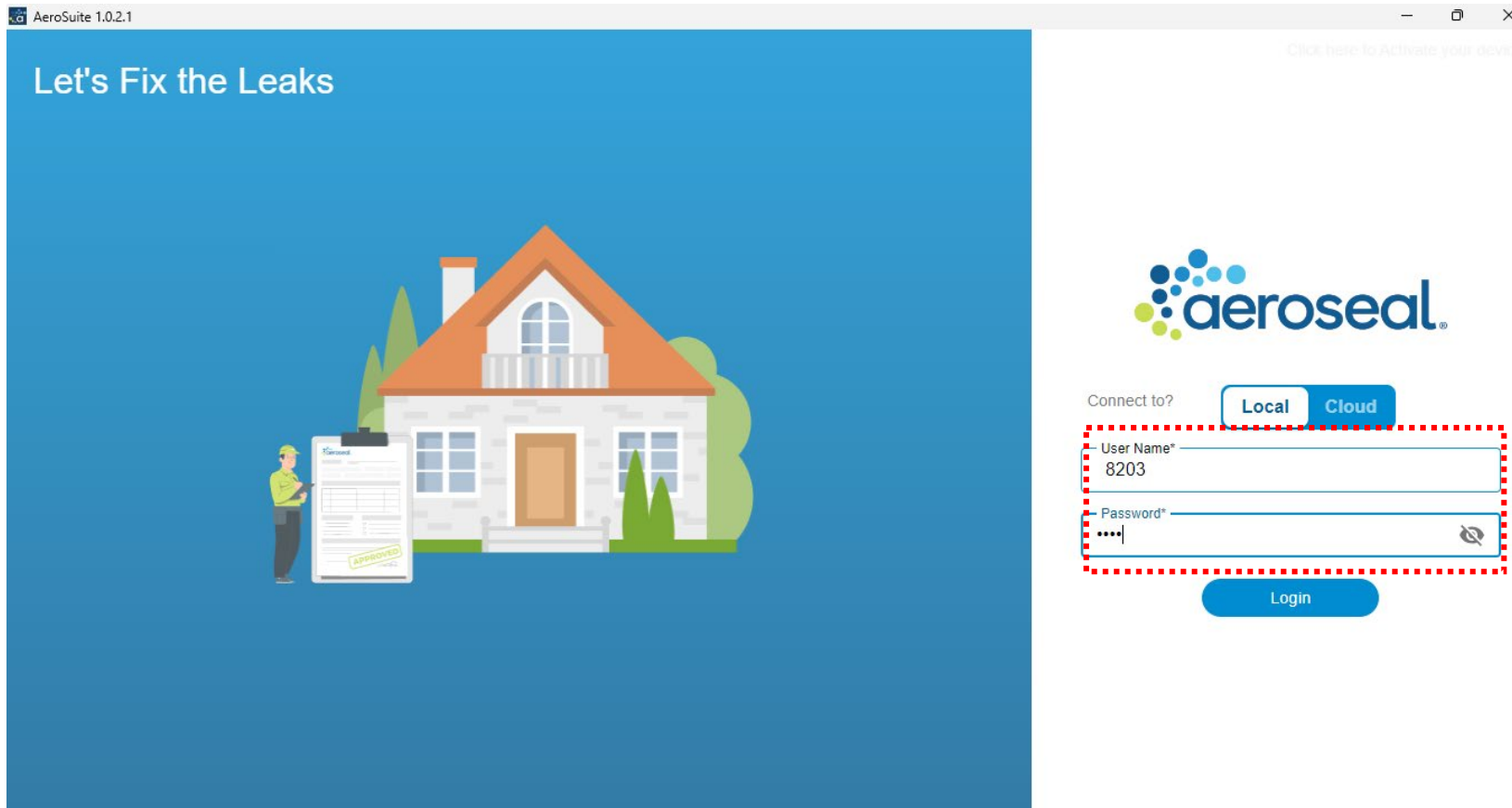


SmartSeal

2024

| AeroSuite Software

Starting the Aerosuite



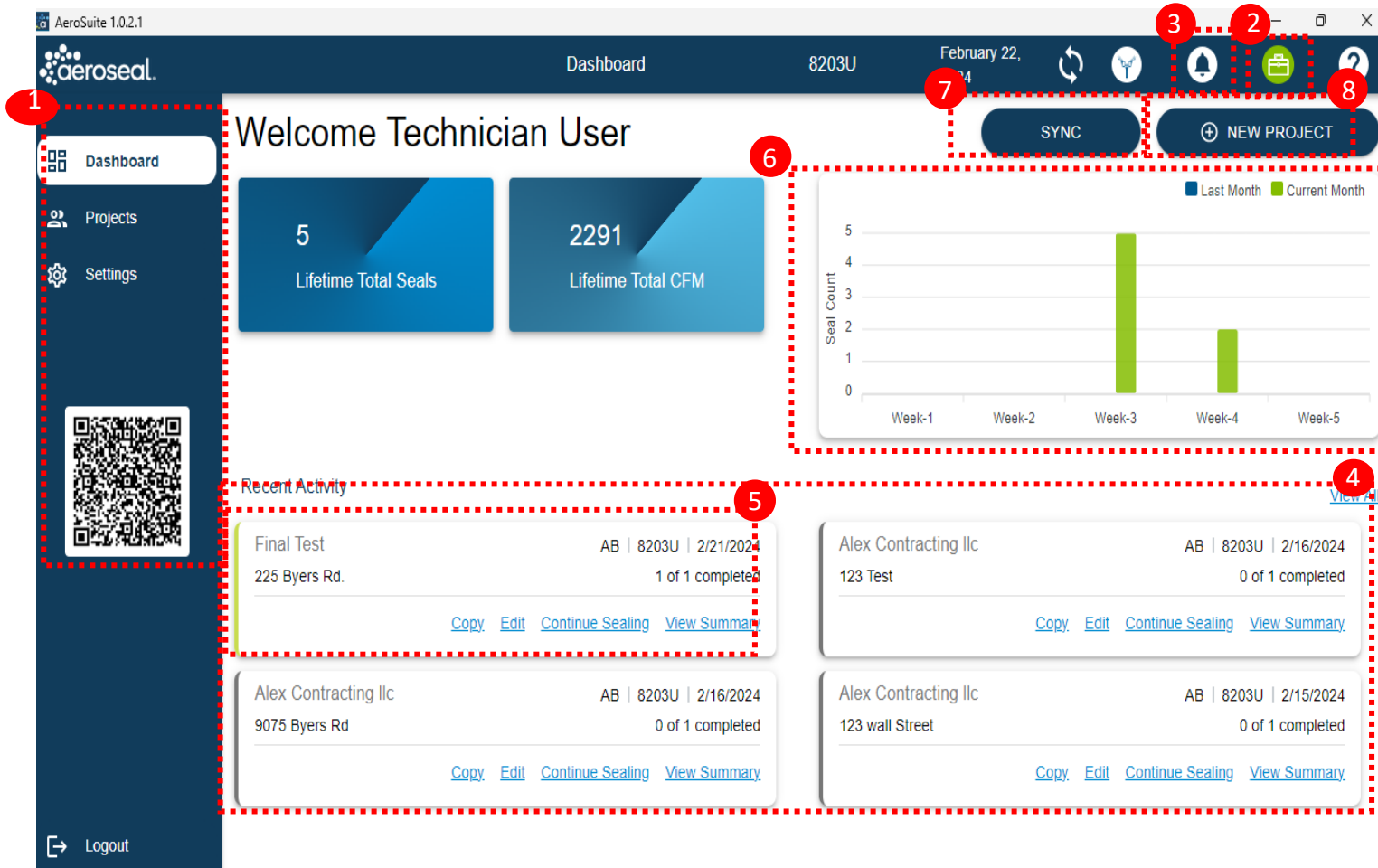
Enter username and password to Login

Username: CASE ID

Password: CASE ID

Make sure that you do not have any pending Windows Updates on your laptop

Dashboard



1. Main Menu
2. MCU connection status (Green=connected/Red=disconnected)
3. Notification Bell.
4. Recent seal layout.
5. Project cards with color indication of the job status and seal preview.
6. Weekly count of seals
7. Upload/Sync data to Aeroseal
8. New Project button

Project cards: All seals completed | All seals not completed | No seals started

Initial Setup-Enter Your Company Information



AeroSuite 1.0.2.1

Profile 8203U February 22, 2024

Registry >
Profile >
About >
Preferences >

Dashboard
Projects
Settings

QR Code

Logout

Dealer Information

Certificate Contractor Name* Final Test	Address* 225 Byers Rd.
City* Miamisburg	State* OH
Zip Code* 45342	Country* USA
Mobile Number* (123) 456 7890	Fax Number
Email* 123@gmail.com	

Upload Dealer Logo

Click here to upload a logo

Clear

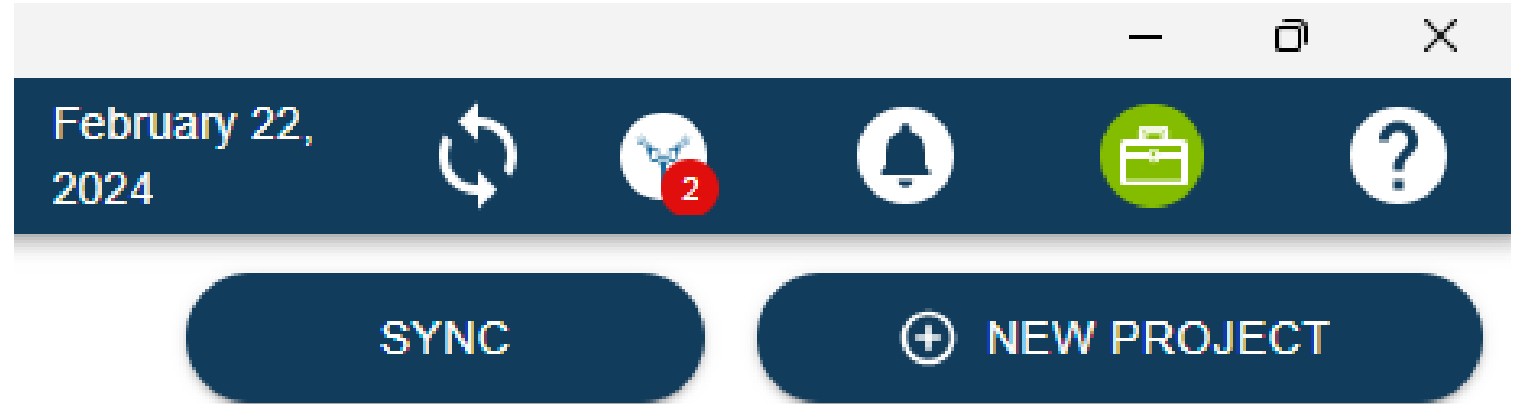
Supported formats JPG, PNG; Image Size: 200px x 100px Max; File Size: 2MB Max

Save

System Checks-WiFi



- Ensure the Briefcase is green. If not connect to the MCU WiFi
- Sprayer Icon Will show how many Sealing stations are connected.
- If needed, Sync your software with Aeroseal



New Project



AeroSuite 1.0.2.1

Dashboard 8203U February 22, 2024

Dashboard Projects Settings

Welcome Technician User

5 Lifetime Total Seals 2291 Lifetime Total CFM

SYNC NEW PROJECT

Seal Count

Last Month Current Month

Week	Last Month	Current Month
Week-1	0	0
Week-2	0	0
Week-3	0	5
Week-4	0	2
Week-5	0	0

Recent Activity [View All](#)

Activity	Location	Date	Status
Final Test	225 Byers Rd.	AB 8203U 2/21/2024	1 of 1 completed
Alex Contracting Ilc	9075 Byers Rd	AB 8203U 2/16/2024	0 of 1 completed
Alex Contracting Ilc	123 Test	AB 8203U 2/16/2024	0 of 1 completed
Alex Contracting Ilc	123 wall Street	AB 8203U 2/15/2024	0 of 1 completed

Logout

Select Job Type



AeroSuite 1.0.2.1

February 21, 2024



aeroseal.

Dashboard


Projects

Settings

Logout



Envelope - Single Seal



Envelope - Development/Community

The screenshot shows a web application interface. At the top, a dark blue header contains the "aeroseal." logo on the left, the date "February 21, 2024" in the center, and three icons (refresh, notification, and help) on the right. A dark blue sidebar on the left contains a menu with "Dashboard", "Projects", "Settings", and "Logout" (with an external link icon). The main content area features the "aeroseal ENVELOPE" logo at the top center. Below it are two white-bordered cards. The first card shows an illustration of a house under construction with scaffolding and is labeled "Envelope - Single Seal". The second card shows an illustration of a multi-story building under construction with scaffolding and is labeled "Envelope - Development/Community".

Development Option



AeroSuite 1.0.2.1

8203U February 22, 2024

aeroseal.

← **New Community/Development**

Development/ Community*
Aerobarrier Acres

Builder Name*
Aerobarrier Builders

ZipCode*
45342

City*
Miamisburg

State*
Ohio

Country*
USA

Email

Mobile Number

Model/Templates

Model Name	Square Footage	Leakage Target
------------	----------------	----------------

Attachments

Logout

Manage Sealing Events Add New Template Save

Development Template



AeroSuite 1.0.2.1

Edit Model/Template

Model/Template Name*
Acres 1

Sq. Footage* 1000 Leakage Target* 3 Units ACH50

Avg. Ceiling Height (ft) 9 Struct. Volume (ft³)* 9000 Construction Phase* Post-DryWall

Number of Stories* 1 on slab Insulation Type* Batt Building Type* Apartment

Notes

Close Save

Background App Interface:

- Navigation: Dashboard, Projects, Settings
- Development/Community: Aerobarrier Acres
- ZipCode*: # 45342 City*: Miamisburg
- Model/Templates table:

Model Name	Square Footage
------------	----------------
- Attachments: [Empty]
- Logout button

Creating a Seal Event



AeroSuite 1.0.2.1

8203U February 22, 2024

New Community/Development

Development/ Community*
Aerobarrier Acres

Builder Name*
Aerobarrier Builders

ZipCode* # 45342 City* Miamisburg State* Ohio Country* USA

Email Mobile Number

Model/Templates

Model Name	Square Footage	Leakage Target
------------	----------------	----------------

Attachments

Logout

Manage Sealing Events Add New Template Save

Template Selection



AeroSuite 1.0.2.1

New Envelope Sealing Event

Model/Template* Unit/Lot Number

Address*

Sq. Footage* Leakage Target* Units

Avg. Ceiling Height (ft) Struct. Volume (ft³)* Construction Phase*

Number of Stories* Insulation Type* Building Type*

Notes

Close Continue Sealing Save & New Save

Mobile App Preview:

Development/ Community* Aerobarrier Acres

ZipCode* # 45342 City* Miamisburg

Model/Templates

Model Name	Square Footage
Acres 1	1000

Attachments

Single Seal Option



AeroSuite 1.0.2.1

8203U February 22, 2024

aeroseal.

Dashboard
Projects
Settings

Logout

Single Seal Project

Builder Name*
Aerobarrier Builders

Address*
225 Byers Rd.

City*
Miamisburg

State*
Ohio

Country*
USA

ZipCode*
45342

Email

Mobile Number

Sq. Footage*
1500

Leakage Target*
3

Units
ACH50

Avg. Ceiling Height (ft)
9

Struct. Volume (ft³)*
13500

Construction Phase*
Post-DryWall

Number of Stories*
1 on slab

Insulation Type*
Batt

Building Type*
Single Family ...

Notes

Attachments

Continue Sealing Save

Pre-Prep/Simulated Prep



AeroSuite 1.0.2.1

Preprep 8203U February 22, 2024

Preprep Preseal Seal Postseal Flush Depressurize Results

Builder Name: **Aerobarrier Builders** 00:00:00

Address: **225 Byers Rd.**

Ring Setting: **Not Set** Target Pressure (Pa): **50**

Stop (F3) Start (F2)

Fan 0% Fan Speed Automatic Manual 0%

-0 Pa Envelope Pressure 0 Pa Fan Pressure - Fan Flow

	CFM50	Sq. In.	ACH50
Operational Leakage (Calc.)	-	-	-
Preprep (Calc.)	-	-	-
Preseal	-	-	-
Postseal	-	-	-
Depressurize	-	-	-
Improvement	-	-	-

- Select a "Ring Setting" that matches the ring(s) installed on the fan inlet
- Click on "Start" button to run Leakage Test

Logout Next (F9)

Pre-Seal Test



AeroSuite 1.0.2.1

Preseal 8203U February 22, 2024

Preprep **Preseal** Seal Postseal Flush Depressurize Results

Builder Name: **Aerobarrier Builders** 00:00:30

Address: **225 Byers Rd.**

Ring Setting: no-ring Target Pressure (Pa): 50

Stop (F3) Start (F2)

Operational Leakage Units: - Enter Value: - Save

	CFM50	Sq. In.	ACH50
Operational Leakage (Calc.)	115.3	13.9	0.5
Preprep	556.9	67	2.5
Preseal	441.6	53.2	2
Postseal	-	-	-
Depressurize	-	-	-
Improvement	-	-	-

Fan 0% Fan Speed Automatic Manual 0%

1 Pa Envelope Pressure 0.3 Pa Fan Pressure - Fan Flow

- Preseal leakage test is completed
- If you wish to run test again, select a "Ring Setting" matching the ring(s) installed on the fan inlet
- Click on "Start" button to rerun preseal leakage test

Previous (F8) Next (F9)

Logout

Sealing Station Setup



AeroSuite 1.0.2.1

Preseal 8203U February 22, 2024

Dashboard Projects Settings

Preprep Preseal Seal

Builder Name: **Aerobarrier Builders**
Address: **225 Byers Rd.**

Ring Setting: no-ring Target Pres: 50

Operational Leakage: - Units*: - Enter Value: -

Stop (F3)

QR Code

	CFM50	Sq. In.
Operational Leakage (Calc.)	115.3	13.9
Preprep	556.9	67
Preseal	441.6	53.2
Postseal	-	-
Depressurize	-	-
Improvement	-	-

Logout Previous (F8) Next (F9)

Sealing Station Network

- 8203-A** Ready To Seal 100%
Sealant Level: 75% Location: Master Bedroom Remaining Sealant: 75%
Humidity: 29.2 % RH Temperature: 0 °F Sealant(Vol): 1.5 gal Sealant(Time): 02:15:10
- 8203-E** Ready To Seal 100%
Sealant Level: 100% Location: Living Room Remaining Sealant: 100%
Humidity: 29.8 % RH Temperature: 0 °F Sealant(Vol): 2 gal Sealant(Time): 03:00:14

Close

Starting the Seal

AeroSuite 1.0.2.1

Sealing 8203U February 22, 2024

Preprep Preseal **Seal** Postseal Flush Depressurize Results

Builder Name: **Aerobarrier Builders** 00:00:24
Address: **225 Byers Rd.**

Ring Setting: no-ring Target Pressure (Pa): 200 Use Heater?: Non-Electric

Pause (F4) Stop (F3) Start (F2)

Fan 52% Fan Speed Automatic Manual 0%

199.9 Pa Envelope Pressure 59.6 Pa Fan Pressure 885 CFM Fan Flow

System is currently sealing.

Envelope Leakage: 474.8 CFM50 | 57.2 Sq.In. | 2.1 ACH50

Leakage @ CFM 50

Seal Stations

Stations ready to seal	0
Disabled Stations	0
Stations injecting sealant	2
Stations pausing until RH reduced	0
Stations with issues	0
Estimated sealant injected(gal)	0

Inlet Humidity: 24.4%
Inlet Temp: 73.8 °F
Compressed Air: 107.3 PSI

Emergency Stop (Esc) Previous (F8) Next (F9)

Logout

Sealing – What to Watch



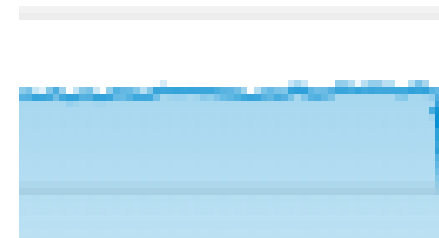
For

The sealing cannot commence until compressed air pressure is at least 90PSI at the MCU. Make sure the trailer gauge is set to at minimum **100PSI** to achieve 90PSI at the MCU and manifold. If you do not get pressure, then it is either due to:

Compressed Air must be > 85 PSI. Please check.

- Air leaks
- Water in compressor tank
- Leaks in incoming air hose or compressed air dryer assembly

- If the graph starts to Flat-line, it could mean:
 - you are out of sealant
 - you have large penetrations that cannot be sealed
 - your sealant is not flowing out of the nozzles



Sealing-What to watch for Cont'd



Sealing also cannot commence if the envelope pressure is below **10pa**. If you are unable to build 10pa of pressure on the envelope it could be due to:

- Ring setting too low
- Blue tube disconnected
- Huge leaks in the envelope

-0 Pa	0 Pa
Envelope Pressure	Fan Pressure

Be sure you know where to seal down to based on the operational leakage

Operational Leakage (Calc.)	CFM50	Sq. In.	ACH50
	115.3	13.9	0.5

Also check the notifications bell for any alarms/issues



Changing Rings

AeroSuite 1.0.2.1

Sealing 8203U February 22, 2024

Preprep Preseal **Seal** Postseal Flush Depressurize Results

Builder Name: **Aerobarrier Builders** 00:07:06
Address: **225 Byers Rd.**

Ring Setting: no-ring Target Pressure (Pa): 200 Use Heater?: Non-Electric

Pause (F4) Stop (F3) Start (F2)

Fan 50% Fan Speed Automatic Manual 0%

200.1 Pa Envelope Pressure 10.9 Pa Fan Pressure 397.2 CFM Fan Flow

Envelope Leakage: 276.6 CFM50 33.3 Sq.In. 1.2 ACH50

System is currently sealing. Please change the ring to 5-inch ring.

Leakage @ CFM₅₀

Seal Stations

Stations ready to seal	0
Disabled Stations	0
Stations injecting sealant	2
Stations pausing until RH reduced	0
Stations with issues	0
Estimated sealant injected(gal)	0.16

Inlet Humidity: 24.5%
Inlet Temp: 73.8 °F
Compressed Air: 97.3 PSI

Emergency Stop (Esc) Previous (F8) Next (F9)

Stopping the Seal

AeroSuite 1.0.2.1

aeroseal

Sealing 8203U February 22, 2024

Preprep Preseal **Seal** Postseal Flush Depressurize Results

Builder Name: **Aerobarrier Builders** 00:19:46
Address: **225 Byers Rd.**

Ring Setting: 5-inch ring Target Pressure (Pa): 200 Use Heater?: Non-Electric

Pause (F4) **Stop (F3)** Start (F2)

Heater

Envelope Leakage: 292.5 CFM50 | 35.2 Sq.In. | 1.3 ACH50

Leakage @ CFM₅₀

199.8 Pa Envelope Pressure | 334.5 Pa Fan Pressure | 436.2 CFM Fan Flow

Fan: 67% Fan Speed. Mode: Automatic/Manual. Slider: 0%

Sealing is STOPPED.

Seal Stations

Stations ready to seal	2
Disabled Stations	0
Stations injecting sealant	0
Stations pausing until RH reduced	0
Stations with issues	0
Estimated sealant injected(gal)	0.46

Inlet Humidity: 24.7%
Inlet Temp: 73.8 °F
Compressed Air: 106.2 PSI

Emergency Stop (Esc) Previous (F8) Next (F9)

Logout

Post Seal



AeroSuite 1.0.2.1



Postseal

8203U

February 23, 2024



- Dashboard
- Projects
- Settings

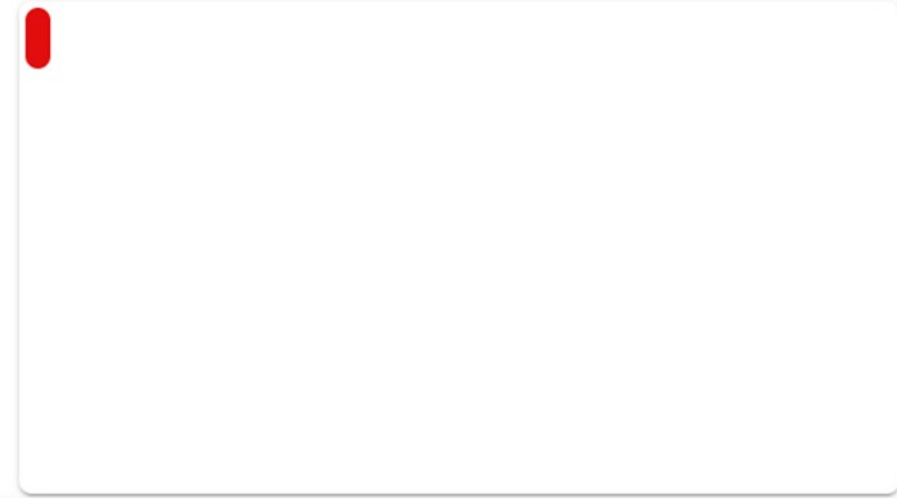
Preprep Preseal Seal **Postseal** Flush Depressurize Results

Builder Name: **Aerobarrier Builders**
Address: **225 Byers Rd.**
00:00:00
Ring Setting: -
Target Pressure (Pa): 50
Stop (F3) Start (F2)

Fan
0% Fan Speed
Automatic Manual
0 Pa Envelope Pressure | 0 Pa Fan Pressure | - Fan Flow



	CFM50	Sq. In.	ACH50
Operational Leakage (Calc.)	115.3	13.9	0.5
Preprep	556.9	67	2.5
Preseal	441.6	53.2	2
Postseal	210.2	25.3	0.9
Depressurize	-	-	-
Improvement	231.4	27.9	1



Logout

Previous (F8) Next (F9)

Flush



AeroSuite 1.0.2.1

Flushing 8203U February 22, 2024

Preprep Preseal Seal Postseal **Flush** Depressurize Results

Builder Name: **Aerobarrier Builders** 00:00:00
Address: **225 Byers Rd.**

Flushing Time: 1 min Stop (F3) Start (F2)

Seal Stations

Stations ready to seal	2
Disabled Stations	0
Stations injecting sealant	0
Stations pausing until RH reduced	0
Stations with issues	0
Estimated sealant injected(gal)	0.46

Fan 0% Fan Speed Automatic Manual 0%
0 Pa Envelope Pressure | 0 Pa Fan Pressure

Remove the container of sealant and replace it with water, select the number of minutes you want to flush the system and start.

Previous (F8) Next (F9)

Logout

Depressurize



AeroSuite 1.0.2.1

aeroseal. Depressurize 8203U February 22, 2024

Preprep Preseal Seal Postseal Flush **Depressurize** Results

Builder Name: **Aerobarrier Builders** 00:00:01
Address: **225 Byers Rd.**

Ring Setting: 5-inch ring Target Pressure (Pa): 50

Stop (F3) Start (F2)

Fan: 0% Fan Speed Automatic Manual 0%

0 Pa Envelope Pressure | 0 Pa Fan Pressure | - Fan Flow

	CFM50	Sq. In.	ACH50
Operational Leakage (Calc.)	115.3	13.9	0.5
Preprep	556.9	67	2.5
Preseal	441.6	53.2	2
Postseal	210.2	25.3	0.9
Depressurize	-	-	-
Improvement	231.4	27.9	1

Logout Previous (F8) Next (F9)



Seal Report



AeroSuite 1.0.2.1

Certificate 8203U February 22, 2024

Preprep Preseal Seal Postseal Flush Depressurize Results

SEAL REPORT

Language: English (United States)
Certificate Option: Seal Report

Feedback Print

Run Additional Seal

Start New Job

Previous (F8)

Envelope sealing performed for:
Aerobarrier Builders
225 Byers Rd.
Miamisburg, OH 45342
Phone:

Date: 2/22/2024
Square Footage: 1500 ft²
Structure Volume: 13500 ft³
Operational Leakage: 115.3 CFM50

Leakage (CFM₅₀)

Leakage (CFM ₅₀)
556.89 (Before)
325.48 (After)

Air changes per hour (ACH)

ACH50
2.5 (Before)
1.4 (After)

Leakage equivalent to

sq.in. hole
67.0 (Before)
39.2 (After)

52.4% 00:19

Logout

Seal Report

SEAL REPORT

Envelope sealing performed for:
 Builder 1
 Miamiisburg, OH 45342
 Phone:

Date: 2/2/2024
 Square Footage: 1200 ft²
 Structure Volume: 9600 ft³

Leakage (CFM₅₀)

Condition	Leakage (CFM ₅₀)
Before	896.99
After	634.47

Air changes per hour (ACH)

Condition	ACH50
Before	6.2
After	4.0

Leakage equivalent to

Condition	sq.in. hole
Before	119.9
After	76.4

45.1%
Reduction in Envelope Leakage

00:05
hh:mm Seal Time

● Before ● After

Note: Envelope leakage and air-change results are calculated at a STANDARD OPERATING PRESSURE of 50 Pa.

Envelope sealing performed by:
 Aeroseal Developer
 225 Byers Rd
 Miamiisburg, OH 45342
 Phone: (123) 457 8900

Aeroseal Case ID:
Hardware:

Scan for more details

Aeroseal
aeroseal.com
877-999-9999
info@aeroseal.com

Seal Report with Depressurization

SEAL REPORT

Envelope sealing performed for:
 Builder 1
 Miamiisburg, OH 45342
 Phone:

Date: 2/2/2024
 Square Footage: 1200 ft²
 Structure Volume: 9600 ft³

Leakage (CFM₅₀)

Condition	Leakage (CFM ₅₀)
Before	896.99
After	634.47

Air changes per hour (ACH)

Condition	ACH50
Before	6.2
After	4.0

Leakage equivalent to

Condition	sq.in. hole
Before	119.9
After	76.4

Depressurization Results

Condition	ACH50	sq.in. hole
Before	3.8	72.4
After	3.8	72.4

45.1%
Reduction in Envelope Leakage

00:05
hh:mm Seal Time

● Before ● After

Note: Envelope leakage and air-change results are calculated at a STANDARD OPERATING PRESSURE of 50 Pa.

Envelope sealing performed by:
 Aeroseal Developer
 225 Byers Rd
 Miamiisburg, OH 45342
 Phone: (123) 457 8900

Aeroseal Case ID:
Hardware:

Scan for more details

Aeroseal
aeroseal.com
877-999-9999
info@aeroseal.com



2024

