



# Case Study

## Beazer Homes: National Production Homebuilder



### PROJECT OVERVIEW

**PROJECT:**

Single Family Homes  
National Production Homebuilder

**BUILDER:**

Beazer Homes

**LOCATION:**

Nationwide

**GOAL:**

Achieve 1.5 ACH50 air leakage on several thousand single family homes annually across multiple regions.

**RESULTS:**

Before AeroBarrier = 3-4 ACH50

After AeroBarrier = 1.5 ACH50

AeroBarrier is Beazer Homes' national solution for achieving their air leakage goals on the homes they build, due to its reliability, repeatability, scalability, and other benefits.

## National Production Homebuilder Uses AeroBarrier® Nationwide

### AeroBarrier Provides Key Air Sealing Benefits for a Production Homebuilder

Beazer Homes' decision to work with AeroBarrier was initially driven by their goal of achieving the US Department of Energy's Zero Energy Ready Home™ (ZERH) certification. The proven air sealing system technology is key to Beazer achieving a ZERH envelope air tightness of 1.5 to 2 ACH50 in their homes. However, the benefits

that AeroBarrier provides for any production builder are what enable this consistent air tightness. Reliability, repeatability, and scalability in air sealing the building envelope across every home they build are critical to a production builder's business model.

### Reliability – Hit Your Air Sealing Goal On Every House You Build

Knowing that you'll hit your air tightness requirement is critical for helping any homebuilder meet requirements for code, ENERGY STAR®, ZERH, etc. But many builders don't know until the final blower door test, and they see failing results more often than they'd like to. At that point, they're faced with the time-consuming and expensive task of identifying and fixing the air leakage in a finished house. AeroBarrier's proven, automated air sealing solution easily finds air leaks and seals them, using a continuous blower

door test to immediately verify you've hit your air tightness target before our local installer leaves your job site.



*Consistency is super important. If I'm using AeroBarrier I know I'm going to pass the blower door test at the end, which will save us time and money in the back end of each home's construction.*

**Jim Moore - SVP of Operations**

Beazer Homes



[aeroseal.com/aerobarrier](http://aeroseal.com/aerobarrier)  
(937)-428-9300 • [info@aerobarrier.net](mailto:info@aerobarrier.net)



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*The really cool thing about Aeroseal and the AeroBarrier technology, was our ability to be confident that it could be deployed in each climate zone, and each product type, and we could rely on the results.*

**Allan Merrill - CEO**

Beazer Homes



### Repeatability – Consistent Air Sealing Across Different Home Designs And Climate Zones

Unlike Aerobarrier, manual air sealing can vary from house to house and from one house design to another, causing some failed final blower door tests. AeroBarrier uses the same effective and simple process to seal the building envelope every time. The system pressurizes the interior and sprays a mist of sealant inside the house. The air currents escaping through the envelope carry the sealant to those leaks and seal them as it passes through. This standardized process makes it easily repeatable from house to house, ensuring you achieve your air leakage goal every time no matter how many houses and different house designs you build across different regions of the country.

### Scalability – Guaranteed Air Sealing No Matter How Many Houses You Build

Since AeroBarrier makes air sealing the building envelope a reliable, standardized, and repeatable process, it's also predictable. You know the cost and time needed to install AeroBarrier for every house, making it very scalable. AeroBarrier is easily deployed – whether that's on one house or thousands of houses across different designs and home communities in different climate zones. Beazer Homes is using AeroBarrier on new single-family homes across 14 metropolitan areas in the United States.

### AeroBarrier Yields Cost Savings & Additional Benefits

AeroBarrier also generates cost savings for homebuilders. Knowing their air tightness goal will be achieved on every home using AeroBarrier, builders can save money through reducing HVAC equipment size, eliminating the need for flash foaming the attic side of drywall ceilings or continuous exterior insulation, and other value engineering strategies. In addition to meeting building codes and performance certifications, AeroBarrier air sealing also minimizes the chance for condensation to form inside the exterior wall. This improves the durability of the home and reduces the potential for mold growth. A tighter seal also means a quieter home, better indoor air quality, and less insect intrusion. AeroBarrier's application engineers and local installation contractors continually work with Beazer in a variety of ways to help them achieve their air sealing goals. They identify areas in different Beazer home designs prone to leakage and recommend practical solutions based on the climate zone. This adds another layer of confidence that Beazer will hit their air sealing requirements on every house they build. AeroBarrier and Beazer Homes' collaborative working relationship has enabled the air sealing success they have achieved together. This success is proof that any production builder using AeroBarrier can consistently and predictably hit their envelope air sealing goals on every home they build – across multiple home designs and different regions of the country.

