

When it comes to building energy-efficient, comfortable homes, one key performance measure is **ACH50**—or **Air Changes per Hour** during a standard blower door test simulating **50 Pascal pressure difference**.

This measures how airtight your home is and tells you how many times the air inside your home is completely replaced with outdoor air each hour.

- The lower the ACH50 number, the more airtight your home is.
- A 1.5 ACH50 rating means the air inside your home is replaced just 1.5 times per hour under test conditions, indicating a better air tightness while still allowing for fresh air to enter.
- In contrast, the industry average is 3 ACH50, meaning the air changes twice as frequently in a typical home, leading to more heating or cooling escaping your home, and more allergens or pollutants entering your home.

Why Airtightness Matters

A 1.5 ACH50 rating is twice as airtight as the industry average of 3 ACH50. That's a powerful indicator of quality construction and attention to detail resulting in:

✓ Lower Energy Bills

Less air leaking out means less heating in the winter and less cooling in the summer. You'll spend less on energy and reduce your carbon footprint at the same time.

✓ More Comfortable Living

Say goodbye to drafts, hot or cold spots, and inconsistent room temperatures. An airtight home gives you better control over indoor comfort year-round.

✓ Better Indoor Air Quality

With less outside air sneaking in through gaps and cracks, your home can filter and ventilate air on your terms, using mechanical systems like ERVs or HRVs to bring in fresh, filtered air and maintain a healthier indoor environment.

In short, it's a **smarter**, **healthier**, and more **sustainable** way to live.