

IS YOUR HOUSE LEAKING?

Homework Questions

Have you watched the video yet? Watch [here](#).

1. What are some tools we use to test the air tightness of a home?
2. What is the standard testing pressure for residential tests in pascals? How much pressure is this?
4. How do we find leaks when the blower door is running?
5. What were some of the leakage points in the building that was tested?
6. What are the metrics we use to assess the air tightness of a home?
7. How did this house test in air changes per hour at 50 pascals (ACH50)?
8. What is a good air tightness result? Why?
9. Have you had air tightness testing done with any of your projects? If so, what did you see/learn/observe?
10. Do you see air tightness testing becoming a part of your work?
11. Who conducts air tightness testing in your geographic area?
12. Air tightness metrics example: in the video we are using air changes per hour at 50 pascals (ACH50). To calculate this, we need the following information:

Building volume

CFM at 50 pascals

Here's the formula:

$$\text{ACH50} = (\text{CFM50} \times 60 \text{ minutes/hour}) / \text{building volume}$$

If we have a building with a volume of 23,000 cubic feet and a blower door test result of 1250 CFM50, what is the ACH50 for that building?