



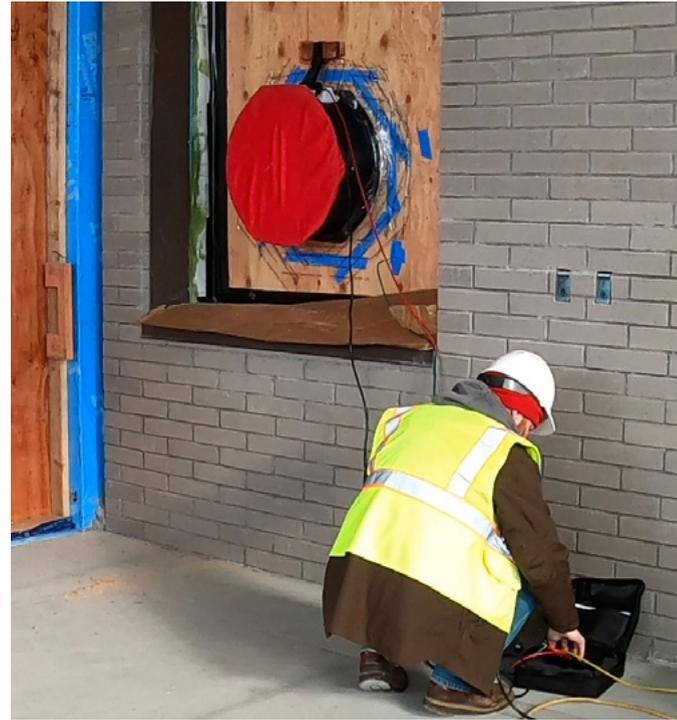
Air tightness refers to reducing or eliminating leaks in the building envelope. Leaks can lead to energy loss, air quality impacts for pollutants, smoke, and pollen, insects, and mold and mildew growth.

Every penetration in the building envelope needs to be carefully taped and sealed to prevent leaks.

A Blower Door Test is the way we measure air leakage. The building is put under pressure and tested for how much the pressure decreases over a period of time. A Passive House building needs to meet a rating of 0.06 CFM/50/ft², which is 3 times the level of current Code.

Air Sealing

- Details were developed to ensure that all penetrations through the Passive House envelope were thoroughly taped and sealed, including pipes, conduits, openings, and vapor barriers.



Measured Leakage:	0.06 CFM50/ft² (Env. Area)
Leakage Target:	0.06 CFM50/ft² (Env. Area)
Compliance with Leakage Target:	Pass
Test ID:	prelim pressurization
Purpose of Test:	NY IECC 15 Env. Leakage
Measured CFM50:	4,829.0 (+/- 6.7%)
Building Volume:	653,426.0 ft ³
Coefficient (C):	671.0 (+/- 41.4%)
Correlation Coefficient:	0.97441
Test Standard:	ASTM E779 (single mode)
Test Characteristics:	Pre Indoor Temp: 57 °F
	Pre Outdoor Temp: 33 °F
	Altitude: 153.0 ft
Test Date and Time:	2024-02-27 13:58:29
	Effective Leakage Area: 383.2 in ²
	Enclosure Surface Area: 74,822.3 ft ²
	Exponent (n): 0.505 (+/- 0.116)
	Test Mode: Pressurize
	Post Indoor Temp: 57 °F
	Post Outdoor Temp: 33 °F
	Time Average Period: 10 seconds

Blower Door Test

- Projects almost never pass the first Passive House Blower Door test, but the MVLC did! WE conducted one test before brick and drywall were in and one at the end of the project. A huge success for building resilience.