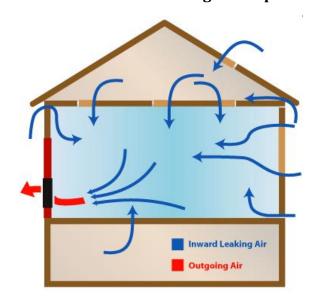


Blower Door and Duct Leakage Testing Blower Door Test - Building envelope test.



 $ACH_{50} = \frac{CFM_{50}*60}{VOLUME}$

NYS Code 3 ACH50



TABLE 1 Recommended Test Envelope Conditions

Building Component	Envelope Conditions	
Building Component	Occupied (Default)	Closed
Vented combustion appliance	Off	Off
Pilot light	As found	As found
Flue to nonwood combustion appliance	Sealed	No preparation
Flues for fireplaces and wood stoves with dampers	Closed	Closed
Flues for fireplaces and wood stoves without dampers	Ashes removed	Ashes removed
Fireplace and wood stove doors and air inlet dampers	Closed	Closed
Fireplace without firebox doors	No preparation	No preparation
Furnace room door for furnace outside test zone	Closed	Closed
Combustion air intake damper for wood stove or fireplace	Closed	Closed
Make up air intake damper for furnace inside test zone	Sealed	Closed
Make up air intake for furnace inside test zone without damper	Sealed	No preparation
Exhaust and supply fans	Off	Off
Fan inlet grills with motorized damper	Closed	Closed
Fan inlet grills without motorized damper	Sealed	No preparation
Ventilators designed for continuous use	Sealed	Sealed
Supply and exhaust ventilator dampers	Sealed	Held closed
Clothes dryer	Off	Off
Clothes dryer vent	No preparation	No preparation
Ventilation to other zones	Sealed	Sealed
Windows and exterior doors	Latched	Latched
Window air conditioners	Sealed	No preparation
Openings leading to outside the test zone	Closed	Closed
Openings within the test zone	Open	Open
Floor drains and plumbing traps	Filled	Filled

*The ONLY thing you seal off are the intake and exhaust of a continuously running $\ensuremath{\mathsf{ERV}}/\ensuremath{\mathsf{HRV}}$

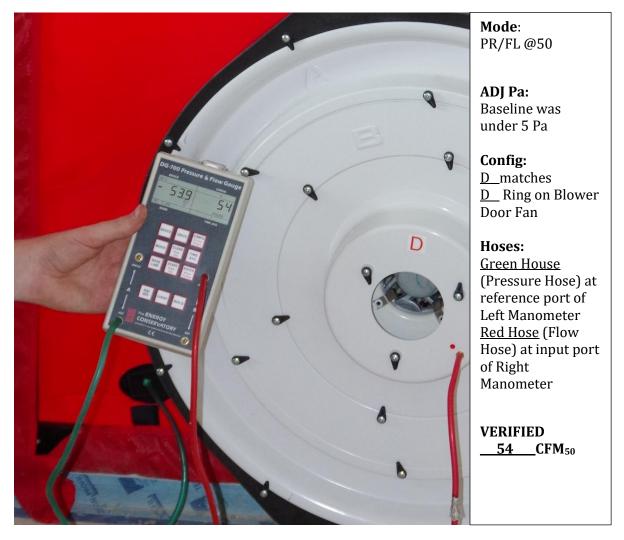
High Performance Building Specialists TEL. 585-750-8192

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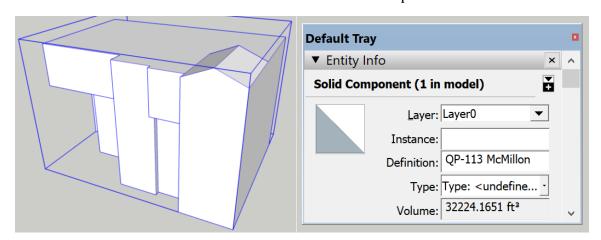
Blower Door Test Form

Customer Information Name:_ Address:_ City:_ State/Zip:_ Phone:_ Email:		Outdoor Temperature (F): Floor Area (ft²)	ft² ft³
Building Address: (if di Lot Number:		Tester Information: Name: Matt Bowers Company: RPH Consulting Certification: RESNET RTIN 425708 Phone: 585-750-8192	3
<u>Comments:</u>	Blower Door Ri Fan Configuration Open (no Flow Ring) Ring A Ring B Ring C	ng tolerances Flow Range (cfm)	
Press.(Pa) Installed (Cl	low FM50)		Limit) ft ³ cfm ₅₀
Fan Model/SN:			





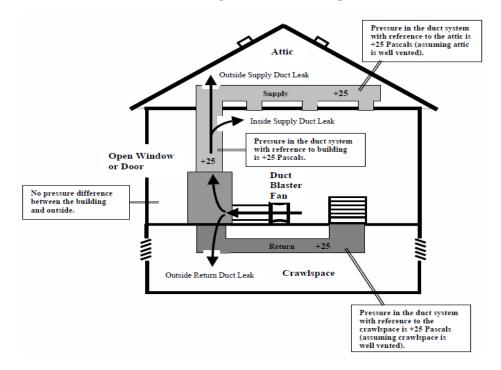
Volume Calculation: Done in Sketchup Make:



Total Volume: 32,224 cuft



Total Duct Leakage Test - Prescriptive Test



- Window is opened (equalize inside and outside pressures
- Ductwork (and Air Handler) are pressurized with duct blaster fan to +25
 Pascal's
- CFM is measured going through fan at that pressure that is equivalent to CFM of leakage at that time.

This number is irrelevant without the square footage of the house. The square footage of the house is calculated including the basement.

$$CFM_{Total\ Leakage} = \frac{CFM_{25}}{Conditioned\ Floor\ Area\ (CFA)}$$

This test is only required if ductwork is outside the conditioned space

Option 1 – Post Construction Test	4 CFM / 100 sqft
Option 2 – Test at Rough In, with Air Handler installed	4 CFM / 100 sqft
Option 3 – Test at Rough In, without Air Handler installed	3 CFM / 100 sqft
Option 4 – Energy Rating Index – done by a HERS Rater	Varies

^{*} If ductwork in an exterior wall or garage ceiling is insulted to the exterior with adequate foam sealed in place AND the insulated cavity is accounted for in the RESCHECK the ductwork is considered within the conditioned space.

^{*} Most common houses that need this test are slab on grade with ductwork in the attic or attic truss bonus room.



Total Leakage per 100 sqft:

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Duct Blaster Test Form

Customer Information: Name: Address: City: State/Zip: Phone: Email: Building Address: (if different from above)	Test Conditions: Date: Time: Indoor Temperature (F): Outdoor Temperature (F): Floor Area (ft²) Primary Location of Supply Ductwork Primary Location of Return Ductwork	
Lot Number:Address:	Tester Information: Name:Matt Bowers - RPH Consulting LLC. Certification:RESNET RTIN 4275708 Phone:(585) 750-8192	
Comments: Test Limits: - Total Duct Leakage - Leakage (3cfm/100 sqft):CFM - Leakage (4cfm/100 sqft):CFM Test Pressure is relative to Outside Pressure	Fan Configuration Flow Range (cfm) for Series B DB fan Open (no Flow Ring) 1,500 - 600 Ring 1 800 - 225 Ring 2 300 - 90 Ring 3 125 - 10	
Total Leakage Test Test Pressure: (Pa) Baseline Duct Pressure (optional) (Pa) Duct Flow Ring Fan Press Flow Press.(Pa) Installed (Pa) (cfm)	Outside Leakage Test Depress/Press Test Pressure:	
Fan Model/SN: Minneapolis Duct Blaster Series B/4962 Results: Total Leakage (cfm):	Results: Outside Leakage (cfm): Outside Leakage per 100 sqft:	