

Residential Building Air Leakage Test (Blower Door Test) Results

Permit #: B24-0664
House address or lot number: 8509 Ashen Dr
City: Pasco Zip: 99301
Cond. Floor Area (ft²): 1760 Age of house: 0
Source (circle one): Plane Estimated Measured

Results shall be reported as Air Changes per Hour at 50 Pascals (ACH₅₀) and shall be calculated as follows:

$$ACH_{50} = (CFM_{50} \times 60) / \text{Volume}$$

Where:

CFM₅₀ = Blower door fan flow at 50 Pascal pressure difference

Volume = Conditioned Floor Area of the housing unit x ceiling height

Blower Door Test Result: 2.46 ACH₅₀
601 CFM@50Pa

Ring (circle one if applicable): Open A B C

Blower Door Fan Location: Garage Weather Conditions: Calm

I certify that these blower door results are accurate and determined using standard industry protocol.

Company Name: Air Seal Control Technician: Seaf

Technician Signature: [Signature] Date: 7-17 Phone Number: 481 6357

2015 Washington State Energy Code reference:

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. **A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.** Testing shall be performed at any time after creation of all penetrations of the building thermal envelope. Once visual inspection has confirmed sealing (see Table R402.4.1.1), operable windows and doors manufactured by small business shall be permitted to be sealed off at the frame prior to the test.

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524-0664

Property address: 8509 Ashen Dr, Pasco WA
 Builder/registered design professional name: Gitanjyot Arora
 Conditioned floor area: 1460 ft² (per building permit)

Ceiling: Vaulted R-49 R-Values (R303.1.1) Floors: Over unconditioned space R-
 Attic: Attic R-49 Slab-on-grade floor R-
 Walls: Above grade R-21 Fully insulated slab? Y/N (Circle one)
 Below, Int. R- Doors: R- , R- , R-
 Below, ext. R-

U-Value of Windows, Skylights and Doors (R303.1.1.3)
 Average area weighted U-value from Glazing Worksheet Average U-

Fuel Normalization (Tables R406.2) and Energy Credits (Table R406.3)
 System Type Number (1 to 5) (Select one)
 Energy Credits selected (1 to 7)
 Fuel Normalization Credit + Total Energy Credits = Total Credits

System	Heating, Cooling and Domestic Hot Water Type (Manufacturer and Model Number)	Efficiency
Heating	Heat Pump	11.5
Cooling	Heat Pump	22.3
DHW		
Drain water heat recovery		

Onsite Renewable Energy/Electric Power System
 System type System design capacity kW
 Rated annual generation kWh/yr

Appliances	Manufacturer and Model	Energy Star? (Circle one)
Dish washer		Y or N
Refrigerator		Y or N
Washer		Y or N
Dryer		Y or N

Gas fireplace / heating stove (Section R402.4.2) Fireplace efficiency (FE)
 Heating or Decorative? (Circle one)

HVAC System Duct Leakage Testing (R403.3) Circle one

All ductwork and air handler in conditioned space? (See Option 4.2) Y or N
 All ductwork in unconditioned spaces buried and tested at 3% total leakage, and air handler in conditioned space? (See Option 4.1) Y or N
 All ductwork & air handler outside conditioned space insulated to minimum R-8? Y or N
 Air handler present at duct leakage test? (Total leakage 4% if yes, 3% if no) Y or N
 HVAC leakage to outside test conducted at final? Y or N
 Do HVAC duct leakage tests include GPS and time stamp verification? Y or N
 HVAC system leakage test calculated design target: 50 CFM @ 25 Pa
 HVAC system leakage test measured results: 57 CFM @ 25 Pa

Building Leakage Testing (R402.4.1.2)

Dwelling unit leakage test calculated design target: ACH @ 50 Pa
 Dwelling unit leakage test, measured results: ACH @ 50 Pa
 Whole Building Leakage test (R2 non-corridor only) design target: CFM/sf @ 50 Pa
 Whole Building Leakage test (R2 non-corridor only) measured: CFM/sf @ 50 Pa

Do building leakage tests include GPS and time stamp verification? Y or N
 Whole House Ventilation System Measured Flow Rates (M1505.4 IRC-WA) Circle one

Are the system controls correctly labeled? Y or N
 The Whole House Ventilation (WHV) system operation and maintenance (O&M) instructions were provided to the building owner? Y or N
 Provided to: on (date)

Whole House Ventilation System Type: (Circle one)
 (1) Whole house exhaust fan, location Laundry
 (2) Balanced HRV/ERV, location
 For R2 low-rise, serves more than one unit? Y or N
 (3) Supply or HRV WHV integral to the air handler. Describe system control sequence of operations or reference to design submittal:

Specify run-time: 24 hours per day 30 CFM
 WHV calculated design minimum flow rate per plan submittal: CFM
 WHV measured min flow rate at commissioning: Exhaust CFM, Supply CFM

Do WHV flow tests include GPS & time stamp verification? Y or N
 HRV/ERV sensible heat recovery efficiency:

Commissioning Notes:

Other Mandatory Requirements Circle one
 All other mandatory requirements of WSEC-R have been met? Y or N



Duct Leakage Affidavit (New Construction)

Permit #: B24-0664

House address or lot number: 8509 Ashen Dr

City: Pasco

Zip: 99301

Cond. Floor Area (ft²): 1460

Source (circle one): Plans Estimated Measured

Duct tightness testing is not required. The total leakage test is not required for ducts and air handlers located entirely within the building thermal envelope. Ducts located in crawl spaces do not qualify for this exception.

Air Handler in conditioned space? yes no

Air Handler present during test? yes no

Circle Test Method: Leakage to Outside

Total Leakage

Maximum duct leakage:

Post Construction, total duct leakage: (floor area x .04) = 58 CFM@25 Pa

Post Construction, leakage to outdoors: (floor area x .04) = _____ CFM@25 Pa

Rough-In, total duct leakage with air handler installed: (floor area x .04) = _____ CFM@25 Pa

Rough-In, total duct leakage with air handler not installed: (floor area x .03) = _____ CFM@25 Pa

Test Result: 51 CFM@25Pa

Ring (circle one if applicable): Open 1 2 3

Duct Tester Location: Return Pressure Tap Location: Supply

I certify that these duct leakage rates are accurate and determined using standard duct testing protocol.

Company Name: Chinook Technician: ABE.T

Technician Signature: [Signature]

Date: 7/12/24

Phone Number: (509) 736-1121

Certificate of Insulation

Intermountain West Insulation, Inc.

9304 West Clearwater Dr., Ste. A, Kennewick, WA. 99336

Phone: 735-8411 Fax: 783-6600 License: #IWIINI*111MU

PART I ADDRESS OF RESIDENCE

Contractor	Titan Homes
Address	8509 Ashen
City:	Pasco,

	Square Feet	Final R-Value	Material	Number of Bags
Attic	1292	R-49	Fiberglass	29
Scissor Ceiling	168	R-38	Fiberglass	3
Walls	1392	R-21	Fiberglass	20
Floor	1460	R-30	Fiberglass	27

CERTIFICATION

Kirtis Gattis certifies that this residence was insulated as specified above and the insulation was installed in conformance with all applicable codes, standards, regulations and specification.

6/16/2024

Date