

Property address: 113 S ELM AVE, PASCO, WA, 99301
 Builder/registered design professional name: Hector Peraborg
 Builder/reg. design pro. signature: Hector J. Peraborg
 Conditioned floor area: 2105 ft² (per building permit)

R-Values (R303.1.1)
 Vented Attic: Vented R- 17.5 Floors: Over unconditioned space R- 12
 Attic R- 49 Slab-on-grade floor R-
 Walls: Above grade R- 12.1 Fully insulated slab? Y/N (Circle one)
 Below, int. R- Doors: R- R- R-
 Below, ext. R- R- R-

U-Value of Windows, Skylights and Doors (R303.1.1.3)
 Average area weighted U-value from Glazing Worksheet
Fuel Normalization (Tables R406.2) and Energy Credits (Table R406.3)
 System Type Number (1 to 5) 2 (Select one) Average U-
 Energy Credits selected (1 to 7) 22 5.5
 Fuel Normalization Credit 1 + Total Energy Credits 3 = Total Credits 4

System	Heating, Cooling and Domestic Hot Water Type (Manufacturer and Model Number)	Efficiency
Heating	<u>HP Pump Steel</u>	<u>15.5%</u>
Cooling	<u>A/C Pump Steel</u>	<u>8.5%</u>
DHW	<u>HP Water Heater</u>	<u>96%</u>
Drain water heat recovery		

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

Appliances	Manufacturer and Model	Energy Star? (Circle one)
Dish washer	<u>LG</u>	<u>Y</u>
Refrigerator	<u>LG</u>	<u>Y</u>
Washer		<u>Y</u>
Dryer		<u>Y</u>

Gas fireplace / heating stove (Section R402.4.2) If vented, CEF rating _____
 Heating or Decorative? (Circle one) _____
 Fireplace efficiency (FE) PHV

HVAC System Duct Leakage Testing (R403.3)

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: 59 CFM @ 25 Pa
 HVAC system leakage test measured results: 29 CFM @ 25 Pa

Building Leakage Testing (R402.4.1.2)

Dwelling unit leakage test calculated design target: 3.0 ACH @ 50 Pa
 Dwelling unit leakage test, measured results: 3.0 ACH @ 50 Pa
 Whole Building Leakage test (R2 corridor only) design target: _____ CFM/sf @ 50 Pa
 Whole Building Leakage test (R2 corridor only) measured: 500 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)

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: OWNER on 12-28-2020 (date)

Whole House Ventilation System Type: (Circle one)

(1) Whole house exhaust fan, location Living Room
 (2) Balanced HRV/ERV, location _____
 For R2 low-rise, serves more than one unit?
 (3) Supply or HRV WHV integral to the air handler. Describe system control sequence of operations or reference to design submittal: 40 CFM 24 hr low flow

Specify run-time: _____ hours per day

WHV calculated design minimum flow rate per plan submittal: _____ CFM
 WHV measured min flow rate at commissioning: Exhaust 40 CFM, Supply 40 CFM
 Do WHV flow tests include GPS & time stamp verification?
 HRV/ERV sensible heat recovery efficiency: 63 Y or N
 Commissioning Notes: _____

Other Mandatory Requirements

All other mandatory requirements of WSEC-R have been met? Y or N

Duct Leakage Affidavit (New Construction)

823-0619

Permit #: _____

House address or lot number: 113 S ELM AVE

City: PASCO

Zip: 99301

Cond. Floor Area (ft²): 1498

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) = _____ 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) = 59 CFM@25 Pa

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

Test Result: 29 CFM@25Pa

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

Duct Tester Location: RA Grille Pressure Tap Location: Laundry/Bath

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

Company Name: Done Right Mechanical llc Technician: Jose C.

Technician Signature: _____

Date: 12-28-2023

Phone Number: 5094607373



Permit #:	
House address or lot number: 113 S ELM AVE PASCO WA	
Walls	Blown or Sprayed Fiberglass or Cellulose - Walls
Type of insulation: R 21 FIBER GLASS	R-value per inch:
Manufacturer: JM	Coverage area:
R-value: 5.5"	Bag count:
Floor	Blown or Sprayed Fiberglass or Cellulose - Ceiling
Type of insulation: R 38 FIBER GLASS	R-value per inch:
Manufacturer: JM	Coverage area:
R-value: 12"	Bag count:
Flat Ceiling/Attic	Sprayed Polyurethane Foam (SPF)
Type of insulation: R 24 FIBER GLASS	Density:
Manufacturer: JM	Installed thickness:
R-value: 17.5"	R-value of installed thickness:
Single Rafter Joist Vaulted Ceiling	Building component installed: (circle one) walls floor ceiling
Type of insulation:	
Manufacturer:	
R-value:	
Insulation Installer	
Company name: C.I.S.	
Installer name: Miguel Perez	
Installer signature: Miguel	
Date: 12/21/23	
Phone number: (509) 460-7309	
Email:	

Washington State Energy Code Reference:

R303.1 Identification. Materials, systems and equipment shall be identified in a manner that will allow a determination of compliance with the applicable provisions of this code.

R303.1.1 Building thermal envelope insulation. An R-value identification mark shall be applied by the manufacturer to each piece of building thermal envelope insulation 12 inches (305 mm) or greater in width. Alternately, the insulation installers shall provide a certification listing the type, manufacturer and R-value of insulation installed in each element of the building thermal envelope. For blown or sprayed insulation (fiberglass and cellulose), the initial installed thickness, settled thickness, settled R-value, installed density, coverage area and number of bags installed shall be listed on the certification. For sprayed polyurethane foam (SPF) insulation, the installed thickness of the areas covered and R-value of installed thickness shall be listed on the certification. For insulated siding, the R-value shall be labeled on the product's package and shall be listed on the certification. The insulation installer shall sign, date and post the certification in a conspicuous location on the job site.

Exception: For roof insulation installed above the deck, the R-value shall be labeled as required by the material standards specified in Table 1508.2 of the *International Building Code* or Table R906.2 of the *International Residential Code*.



Residential Building Air Leakage (Blower Door) Test Results

Permit #:	
House address or lot number:	113 S ELM
City, ZIP	PASCO WA 99301
Cond. Floor Area (sf):	1498
Age of house:	NEW
Source (circle one):	Plans Estimated Measured

Results shall be reported as Air Changes per Hour at 50 Pascals (ACH50) and shall be calculated as follows:
 $ACH50 = (CFM50 \times 60) / \text{Volume}$

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: 3.0 ACH50
510 CFM@50Pa

Ring (circle one if applicable):	Open A B <u>C</u>
Blower Door Fan Location:	BARABE DOOR
Weather Conditions:	WINTER

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

Company Name:	DONE Right Mechanical LLC
Technician:	Jose e.
Technician Signature:	<i>[Signature]</i>
Date:	12-28-2023
Phone Number:	509 460-7377

2018 WSEC 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 ACH50. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). For this test only, the volume of the home shall be the conditioned floor area on ft² (m²) multiplied by 8.5 feet (2.6 m). 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.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures;
2. Dampers including exhaust, intake, makeup air, backdraft and flue shall be closed, but not sealed beyond intended infiltration control measures;
3. Interior doors, if installed at the time of the test, shall be open. Access hatches to conditioned crawl spaces and conditioned attics shall be open;
4. Exterior openings for continuous ventilation systems and heat recovery ventilators shall be closed, sealed;
5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and
6. Supply and return registers, if installed at the time of the test, shall be fully open.

515-0619



Permit #:	
House address or lot number:	113 S ELM
City, ZIP	PASCO WA 99301
Cond. Floor Area (sf):	1498
Age of house:	NEW
Source (circle one):	<u>Plans</u> Estimated Measured

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

$$ACH50 = (CFM50 \times 60) / \text{Volume}$$

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: 3.0 ACH50
510 CFM@50Pa

Ring (circle one if applicable):	Open A B <u>C</u>
Blower Door Fan Location:	Garage Door
Weather Conditions:	WINTER

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

Company Name:	Dove Rhythm Mechanical LLC
Technician:	Jose E.
Technician Signature:	<i>[Signature]</i>
Date:	12-28-2023
Phone Number:	509 460-7377

2018 WSEC 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 ACH50. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). For this test only, the volume of the home shall be the conditioned floor area on ft² (m²) multiplied by 8.5 feet (2.6 m). 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.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures;
2. Dampers including exhaust, intake, makeup air, backdraft and flue shall be closed, but not sealed beyond intended infiltration control measures;
3. Interior doors, if installed at the time of the test, shall be open. Access hatches to conditioned crawl spaces and conditioned attics shall be open;
4. Exterior openings for continuous ventilation systems and heat recovery ventilators shall be closed, sealed;
5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and
6. Supply and return registers, if installed at the time of the test, shall be fully open.

525-0619