



## Residential Energy Compliance Worksheet

Project Address: \_\_\_\_\_

### SECTION 1: Energy Compliance Path (Select One)

- **Option 1: [2025 PA Alternative Residential Energy Provisions](#) (PA Alternative Path)**
  - Requires choosing Enhancement Option from the Reference Table at the end of this document.
  - Selected Option #: \_\_\_\_\_
- **Option 2: [2021 IRC Chapter 11](#) (Prescriptive Path)**
- **Option 3: Performance-Based Compliance (REScheck, IECC-Compliant Simulated Performance Modeling)**
  - Attach all required documentation and certificates.

### SECTION 2: Insulation & Fenestration Requirements

Fill out all applicable proposed values. Updated per 2021 IRC as adopted and 2025 PA-Alternative for **Climate Zone 4**.

Building Component	<a href="#">2025 PA-Alt</a> (Min/Max)	<a href="#">2021 IRC</a> (Min/Max)	Proposed Value
Fenestration U-Factor	0.32	0.32	
Ceiling R-Value (with attic space)	R-49, R-38 if uncompressed over exterior walls	R-49, R-38 if uncompressed over exterior walls	
Ceiling R-Value (without attic space)	R-30, limited to 75% of total living space sq. footage	R-30, limited to 500 sq. ft. OR 20% of insulated ceiling area	
Wood Frame Wall	R-20 or R-13+5	R-20 or R-13+5	
Floor R-Value	R-19	R-19	
Basement Wall	R-10 (Cont) or R-13 (Cav)	R-10 (Cont) or R-13 (Cav)	
Mass Wall	R-8 (Ext.) or R-13 (Int.)	R-8 (Ext.) or R-13 (Int.)	
Slab R-Value & Depth	R-10, 2 ft	R-10, 2 ft	
Crawl Space Wall	R-10 (Cont) or R-13 (Cav)	R-10 (Cont) or R-13 (Cav)	
Attic Access Hatch	R-20 Rigid Foam	R-49	
Slab Edge Insulation	½" Thermal Break	Full R-10	

### SECTION 3: Air Leakage & Duct Testing (Mandatory for all new homes)

- **Building Air Tightness:** Blower door test max leakage of **3.0 ACH50**
  - Blower door test to be conducted by certified testing agency, with paperwork submitted prior to final inspection approval and conducted [per N1102.4.1.2](#)(2021 IRC). Provisions for alternative calculation methods are made for multi-family buildings and dwellings under 1,500 sq.ft. per [N1102.4.1](#)(2021 IRC)
  - All air barrier and insulation requirements need to be installed and sealed per [N1102.4.1.1](#)(2021 IRC)
- **Duct Testing:** Required IF ducts/air handler are located outside the thermal envelope.
  - **Duct Testing is Required - [N1103.3.5](#)** (2021 IRC)
    - **Rough-in Test Target:** Leakage ≤ 4.0 cfm per 100 sq. ft. of conditioned floor area, ≤ 3.0 cfm if air handler is not included in the test
    - **Post-construction Test Target:** Leakage ≤ 4.0 cfm per 100 sq. ft. of conditioned floor area.
  - **Duct Testing is not Required** (All ductwork and equipment is contained within conditioned space.)

### SECTION 4: Whole-House Mechanical Ventilation (Mandatory for all new homes)

All requirements per [M1505.4](#)(2021 IRC)

1. **Required Airflow (CFM):** \_\_\_\_\_ (Refer to **Table M1505.4.3(1)** at the end of this document for required CFM).

2. **System Selection:** (Must Select one option)

- **Exhaust Only:** (e.g., Bathroom fan).
  - **Model Info:** \_\_\_\_\_
- **Supply Only:** (e.g., Fresh air intake connected to HVAC return).
- **Balanced:** (e.g., HRV or ERV). (Please provide spec sheet on system)

3. **Controls:**

- **Override Switch:** A manual override switch must be installed and clearly labeled "WHMV".

Contractor/Applicant Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## REFERENCE SECTION

**Table PA104: Energy Enhancement Options (PA-Alternative)**

*Required only if selecting Section 1, Option 1.*

Option	Description
1	<b>Ductless Heat Pumps:</b> 8.6 HSPF2 and 18 SEER2.
2	<b>Interior Ducts:</b> All air ducts located entirely inside the thermal envelope.
3	<b>Geothermal:</b> Installation of a geothermal system with a minimum COP of 3.6.
4	<b>High-Effic. HP:</b> Air source heat pump meeting 7.7 HSPF2 and 16.2 SEER2.
5	<b>High-Effic. Furnace:</b> Condensing furnace with a minimum of 92.5 AFUE.
6	<b>Exterior Insulation:</b> Wood frame walls with R-20 cavity + R-10 continuous.
7	<b>Improved Windows:</b> All windows must have a maximum U-factor of 0.21.
8	<b>Window/Attic Pkg:</b> U-0.25 windows + R-60 attic + raised heel trusses.
9	<b>Window/Water Htr:</b> U-0.25 windows + Heat Pump Water Heater (UEF 3.5).

**Table M1505.4.3(1): Continuous Ventilation Airflow (CFM)**

*Use this table to find your required CFM for Section 4.*

Dwelling Unit Floor Area	0–1 Bedroom	2–3 Bedrooms	4–5 Bedrooms	6–7 Bedrooms
< 1,500 sq. ft.	30 CFM	45 CFM	60 CFM	75 CFM
1,501 – 3,000 sq. ft.	45 CFM	60 CFM	75 CFM	90 CFM
3,001 – 4,500 sq. ft.	60 CFM	75 CFM	90 CFM	105 CFM
4,501 – 6,000 sq. ft.	75 CFM	90 CFM	105 CFM	120 CFM