

2020 Vermont Residential Building Energy Standards (RBES) Certificate

This certificate is for projects started on or after September 1, 2020.

Before completing this form, refer to the instructions in Chapter 8 of the Residential Energy Code Handbook (5th edition).

For additions, alterations, renovations or repairs, only fill out applicable portions of certificate.

Property Address (Street, City, ZIP Code) _____

Construction START Date _____

Construction FINISH Date _____

Act 250 (Y/N) _____

Act 250 Permit # _____

Units # Stories # Conditioned Sq. Ft. # Bedrooms

Foundation: Basement Slab On Grade Crawl Space Other: _____

Applicable Code: Base Stretch

Project Description

- Single family Renovation / alteration*
 Multi-family Addition*
 Log home Repair*

* Existing Home Project Description: _____

Compliance Method
MUST select Option 1,
Option 2, or Option 3

Option 1: Package-Plus-Points

BASE / STRETCH (circle one) Points required: _____ (Base requires 4-10pts / Stretch 6-12pts, see Handbook Tables 5-2 and 5-5)
Package # _____ Points achieved: _____

Ref. RBES for full requirements of each point option

Option 2: REScheck software (cannot be used for Stretch Code) Passes
_____ UA result _____ Max. UA

- Envelope: Slab, R-10 under all (1pt) ACH50 ≤ 2.0 and qualifying HRV/ERV (3pts for Base OR 1pt for Stretch)
 Envelope: Walls-Upgraded, R20+12 (2pts) ACH50 ≤ 1.0 and qualifying HRV/ERV (4pts) Solar ready (1pt, Base only†)
 Envelope: Walls-High-R, R-40 (3pts) ENERGY STAR DHW (1pt) On-site generation (1-4pts)
 Envelope: Ceiling, R-80 flat / 60 sloped (1pt) ENERGY STAR electric DHW (2pts) _____ kW _____ pts
 Envelope: Windows 0.27 (1pt, Base only) Low flow fixtures (1pt) Solar hot water (2pts)
 Envelope: Windows 0.22 (2pts) Drain water heat recovery (1pt) Building energy monitoring (1pt)
 Pre-drywall blower door (1pt), result _____ User-demand hot water recirculation (1pt) Level 2 EV-ready (1pt)
 ENERGY STAR heating and cooling (1pt) Water certification (2pts) 6 kWh battery backup (1pt)
 Advanced heating and cooling (3pts) List cert. type _____ †See RBES for MF exception

Option 3: HERS/ERI

_____ HERS Result (Overall)
_____ HERS without Renewables
_____ REM/Rate Version #
IAF incorporated into model
Approved Rater Name: _____
(Maximum HERS: 61 Base, 54 Stretch)

Thermal Envelope

Basement: R-_____ Basement / Crawl Space Walls _____ Basement Insulation Depth (ft) U-_____ Basement Windows NFRC Default
Slab: R-_____ Unheated Slab (Under) R-_____ Heated Slab (Under) R-_____ Perimeter Slab Edge
Wall/Ceiling: R-_____ Above-Grade Walls R-_____ Flat Ceilings _____ Area (sq ft) R-_____ Sloped Ceilings _____ Area (sq ft)
Other: R-_____ Floors over Unheated Spaces R-_____ Attic Access Hatch / Door NA
Fenestration U-_____ Windows NFRC Default U-_____ Doors NFRC Default U-_____ Skylights NFRC Default

Air Sealing / Blower Door Test

_____ ACH50
(must report either ACH50 _____ CFM50/sq ft of building shell (6 sides)
or CFM50/sq ft for Base Code) Both measurements are required for Stretch Code

Date of test _____
Air Leakage Tester Name: _____

Ventilation System

(must select one) Balanced, SRE _____ % Flow verification: Rated, OR Measured → _____ Exhaust air flow (total cfm) _____ Supply air flow (total cfm)
 Exhaust-Only Flow verification: Rated, OR Measured → _____ Exhaust air flow (total cfm)

Combustion Safety

(verify all) Exterior (outdoor) air supply is provided for solid fuel-burning appliances and fireplaces, OR NA (no solid fuel burning appliance or fireplace in home)
 Solid fuel burning appliances and fireplaces have gasketed doors with compression closure, OR NA (no solid fuel burning appliance or fireplace in home)
 Spillage testing conducted on combustion equipment not directly-vented, OR NA (no equipment, or all equipment directly-vented)

Mechanical System

(must complete all) Design Load Calculation Method: ACCA Manual J, OR Other Approved Method (List) _____
Calculation details: (Ref. RBES R302 for design temperature exceptions)
_____ Winter design temp, outdoor dry-bulb (VT range: -11 to 1°F) _____ Summer design temp, outdoor dry-bulb (typ. max. 84°F), OR No cooling
_____ Winter design temp, indoor (max 72°F) _____ Summer design temp, indoor (min. 75°F), OR No cooling
_____ Heating design load, Btu/hr _____ Cooling design load, Btu/hr, OR No cooling
_____ Primary heating system size, Btu/hr _____ Primary cooling system size, Btu/hr, OR No cooling
_____ HSPF or COP or AFUE (circle which) _____ SEER or COP (circle which), OR No cooling
 Programmable thermostat, OR Exempt; list reason _____

Ducts

Ducts located completely within conditioned space, OR NA (no ducts)
_____ Duct airtightness test result (CFM @ 25 Pa)
Test performed at Rough-in (max 3 CFM per 100 sq ft of cond. floor area), OR Post-construction (max 4 CFM per 100 sq ft of cond. floor area)

Other Requirements

Mandatory (Base and Stretch): Mechanical system piping, min. R-3 Multi-family: EV charging requirement is met: _____ # spaces
 90% of lamps high efficacy Automatic or gravity dampers for vent. system intake and exhaust
Mandatory (Stretch Code Only): Single-family: Solar ready Single-family: One Level 1 EV-charging space
Where applicable: Circulating service hot water piping, R-3 Pools: All requirements per R403.10 are met Automatic controls for snow-melt systems

I certify to _____ (Owner) that the above information is correct and that the premises listed have been constructed in accordance with the Vermont Residential Building Standards (RBES) created under 30 V.S.A. § 51. Date: _____

Signature: _____ Printed Name: _____

Company: _____ Phone: _____

30 V.S.A. § 51 requires this certificate label to be permanently affixed to the inside electrical service panel or heating or cooling equipment or nearby in a visible location. Copies of the certificate (and Home Energy Rating Certificate if Option 3 is used) also must be provided to 1) the Dept. of Public Service, 112 State St., Montpelier, VT 05602, and 2) the town clerk of the town where the property is located.

NOTE: Noncompliance with RBES may result in action for damages under 30 V.S.A. § 51. This label does not specify all 2020 RBES requirements. QUESTIONS? CALL the Energy Code Assistance Center at 855-887-0673 or the VT PUBLIC SERVICE DEPARTMENT at 802-828-2811.