This certificate is for projects started on or after July 1, 2024. Before completing this form, refer to the instructions in Chapter 9 of the Residential Energy Code Handbook (6th edition). For additions, alterations, renovations, or repairs, fill out only the applicable portions of certificate.				
# Units #	Stories # Conditioned Sq. Ft.	# Bedrooms		
oundation Type: 🗌 Basement 🛛	Slab On Grade Crawl Space Other			
Applicable	Code 🗆 Base 🗆 Stretch			
Project Des	scription			
□ Single Far	nily $\square$ Renovation/Alteration* $\square$ M	Iulti-family 🗌 Ad	ldition* 🗌 Tiny House	
*Existing hon	e project description:			
Compliance Method MUST select <b>Option 1</b> , <b>Option 2</b> , or <b>Option 3</b>	BASE / STRETCH (circle one) Package: Std. / Log / Tiny Hse. (circle one) Points required: Points achieved: (Base requires up to 10pts/ Stretch up to 15pts; See Handbook Tables 5-2 and 5-5) Reference RBES for full requirements of each point option	software (cannot be u Stretch Code) Passes UA result Max. UA	sed for HERS Result (Overall) HERS without Renewables HERS software used, versio IAF incorporated into model Approved rater name:  (Maximum HERS 60 Base, 59 Stretch)	
accordance with the Vermont R	Owner) that the above informed and the sidential Building Standards (RBES) created a	under 30 V.S.A. § 51.		
Signature: Company:	Prin Pho	ted Name: ne:		
in a visible location. Copies of t Service, 112 State St., Montpeli NOTE: Noncompliance with RI	ificate label to be permanently affixed to the in he certificate (and Home Energy Rating Certifi er, VT 05602, and 2) the town clerk of the town BES may result in action for damages under 30 <b>rgy Code Assistance Center at 855-887-0673</b>	cate if Option 3 is used) n where the property is lo V.S.A. § 51. This label d	also must be provided to 1) the Dept. of Public ocated. loes not specify all 2024 RBES requirements.	
Town clerk recording stamp SPAN #				

## 2024 Vermont Residential Building Energy Standards (RBES) Certificate Building Technical Details (Page 2 of 2)

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

## For use with the Package Plus Points compliance method only:

Envelope: Slab, R-20 around perimeter and below entire slab (2 pts) Envelope: Walls-R-28 2x6 cavity insulation with continuous (1 pt) Envelope: Walls-R-28 2x6 cavity insulation with continuous) (2 pts) Envelope: Walls-R-40 double stud or similar (cavity and continuous) (3 pts) Envelope: R-48 SIP 10 1/4" XPS or similar (cavity and continuous) (4 pts) Envelope: Ceiling, R-60 flat / 49 sloped (1 pt) Envelope: Ceiling, R-80 flat / 60 sloped (2 pts) Envelope: Floors- exposed, R-49 (1pt) Envelope: Windows 0.27 (1 pt) Envelope: Windows 0.27 (2 pts) Envelope: Windows 0.21 (3 pts) Envelope: Windows 0.18 (4 pts) Envelope: Windows 0.18 (4 pts) Envelope: Oors - exterior, 0.26 (1 pt) $\leq 0.07$ CFM50/Sq.Ft.(-1.5 ACH50) (1 pt) $\leq 0.07$ CFM50/Sq.Ft.(-0.5 ACH50) (3 pt) Balanced ventilation with ECM fans and $\geq 80\%$ SRE and $\geq 1.2$ cfm/watt (3 pts) Balanced ventilation with ECM fans and $\geq 75\%$ SRE, and $\geq 2.0$ cfm/watt (3 pts) HVAC (whole building) ENERGY STAR v.6 (5 pts) HVAC (whole building) ENERGY STAR v.6 (5 pts) HVAC (whole building) is GSHP and ENERGY STAR labeled (10 pts) HVAC (whole building) is ATWHP COP2.2.5 (5 pts) Whole building heating/cooling is Advanced wood heating system (http://www.rerc-vt.org) (5 pts) Hydronic distribution system meets building peak heating demand with 120-degree water (1 pt)	All electric heating thermostats provided with demand responsive controls (1 pt) Electric Heat Pump Water Heater UEF $\geq$ 2.20 (3 pts) Electric Heat Pump Water Heater UEF $\geq$ 2.20 (3 pts) All showerheads $\leq$ 1.75 gpm, all lavatory faucets $\leq$ 1.0 gpm, and all toilets $\leq$ 1.28 gpfc (1 pt) Certified water efficient design per WERS, WaterSense, or RESNET HERSH2O (2 pts) Drain water heat recovery system on primary showers and tubs (1 pt) Controlled hot water recirculation system with user-demand via push-button for furthest fixtures (1 pt) All service hot water piping is insulated to at least R-4 from the hot water source to the fixture shutoff (1 pt) Electric storage water heater(s) provided with demand responsive controls (1 pt) Remote fixtures requiring hot water supplied from a localized source of hot water with no recirculating system (1 pt) Follow R402.7 Solar – ready zone requirements (Base Code only) (2 pts) Solar PV (or other on-site renewable energy system), (1 pt pt = 1.5 kW, max. 4 pts) Whole building energy monitoring system installed, minimum 5 circuits & homeowner access to data (1 pt) Radon mitigation system (1 pt) Building energy model with projected annual energy use and costs developed, used in design and construction decisions, and provided to homeowner (1 pt) Minimum 6 kWh grid-connected dispatchable demand-response-enabled battery (1 pt) Advanced lighting controls (2 pts) Insulation embodied carbon emissions: calculated GWP intensity (kg CO2e/sq. ft.) less than 0.5. (2 pts) Insulation embodied carbon emissions: calculated GWP intensity (kg CO2e/sq. ft.) less than 0. (3 pts) Multifamily: Efficient elevator equipment (1 pt) Multifamily: Residential kitchen equipment (2 pts) Multifamily: Water heating system submeters (1 pt)
Thermal Envelope	
Basement         RBasement / Crawl Space Walls         Basement           Slab         RUnheated Slab (Under)         RHeated Slab	Insulation Depth (ft)     UBasement Windows     NFRC     Default       b (Under)     RPerimeter Slab Edge
	gs Area (sq ft) R Sloped Ceilings Area (sq ft) ss Hatch / Door 🗌 NA
Other       R       Floors over Unheated Spaces       R       Attic Acce         Fenestration       U       Windows       NFRC       Default       U       Doors       []	$\Box \text{ NFRC } \Box \text{ Default } U-\_\ \text{Skylights } \Box \text{ NFRC } \Box \text{ Default }$
Air Sealing/Blower Door Test CFM50 ACH50 CFM50/sq ft c	Date of test Air Leakage Tester Name: of building shell (6 sides)
Supply airflow (total cfm Other Flow verific Combustion Safety (verify all)	ation: Rated, OR Measured Exhaust airflow (total cfm) ation: Rated, OR Measured Exhaust airflow (total cfm) pliances & fireplaces, ORNA (no solid fuel burning appliance or fireplace in home)
☐ Solid fuel burning appliances & fireplaces have gasketed doors with	h compression closure, OR $\Box$ NA (no solid fuel burning appliance or fireplace in home)
Mechanical System (must complete all)         □ Spillage testing conducted on combustion equipment not directly.         Design Load Calculation Method: □ ACCA Manual J, OR □ Or         Calculation details: (Ref. RBES R302 for design temperature excep	
<b>Ducts</b> Ducts located within conditioned spaces, OR	JA (no ducts)
	25% of provided spaces not utilized by dwelling units, or 40 spaces are Level 2 capable EV-charging