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.

		unici munonisy .	endeunions of reputie	,	Applical	ole Code:	☑ Base ☑ Stretch
17 Grumman Lane, Waits					- ''	Description	
Property Address (Street 11/1/2023	12/28/24		N		Single		☐Renovation / alteration*
Construction START Dat	e Constructio	n FINISH Date	Act 250 (Y/N)	Act 250 Permit #	☐Multi-☐Log ho		□Addition* □Repair*
# Units # Stories	# Conditioned Sq. Ft.	# Bedrooms		*Existing Home P	roject Description:		
Foundation: Baseme	ent Slab On Grade	☐ Crawl Space	Other:				
Compliance Method MUST select Option 1 Option 2, or Option 3	Doption 1: Pac BASE / STRETC Package # 1	H (circle one) Po	oints required: 5 (B	or full requirements of e Base requires 4-10pts / see Handbook Tables	Stretch 6-12pts,	used for Stre	REScheck software (cannot be ttch Code) Passes A result Max. UA
☑ Envelope: Slab, R-10 ☐ Envelope: Walls-Upgr ☐ Envelope: Walls-High ☐ Envelope: Ceiling, R-6 ☐ Envelope: Windows 0 ☐ Envelope: Windows 0 ☐ Pre-drywall blower do ☑ ENERGY STAR heati ☐ Advanced heating and	aded, R20+12 (2pts) -R, R-40 (3pts) 80 flat / 60 sloped (1pt) .27 (1pt, Base only) .22 (2pts) or (1pt), result ing and cooling (1pt)	□ ACH50 ≤ 1.0 □ ENERGY ST. ☑ ENERGY ST. □ Low flow fixtu □ Drain water h	AR electric DHW (2pts) ires (1pt) leat recovery (1pt) If hot water recirculation (1pt ation (2pts)	pts) Solar ready (1 On-site genera kW Solar hot wate	pt, Base only†) ation (1-4pts) pts er (2pts) gy monitoring (1pt) ady (1pt) r backup (1pt)	☐ IAF incorp	HERS Result (Overall) HERS without Renewables REM/Rate Version # orated into model
Thermal Envelope Basement: R-N/A Slab: R-15 Wall/Ceiling: R-21+6.6 Other: R-N/A Fenestration U-28	Basement / Crawl Sp Unheated Slab (Und Above-Grade Walls Floors over Unheate Windows NFRC	er) R R d Spaces R	Flat Ceilings 0 Attic Access Hatch	er) R-1Area (sq ft) R-4 n / Door □ NA □ Default U-1	5 Perimeter S 9 Sloped Ceil N/A Skylights	lab Edge	□ NFRC □ Default Area (sq ft) Default
Air Sealing / Blower De (must report either ACH or CFM50/sq ft for Base	50 388		building shell (6 sides) juired for Stretch Code	Date of test _10/ Air Leakage Tes Jacob Robichauc	ster Name:	_	
Ventilation System (must select one)	☑ Balanced, SRE _ □ Exhaust-Only		w verification: ☑ Rated, Olow verification: ☑ Rated, Ol		Exhaust air flo Exhaust air flo		Supply air flow (total cfm)
Combustion Safety (verify all)	☑ Solid fuel burning ar	pliances and fire	ed for solid fuel-burning appl places have gasketed doors stion equipment not directly-	with compression clos	sure, OR 🛮 NA (no	solid fuel bur	appliance or fireplace in home) ning appliance or fireplace in home) actly-vented)
Mechanical System (must complete all)	Design Load Calculation Method:						
Ducts	☐ Ducts located comp	letely within cond	itioned space, OR ☑ NA (n		st-construction (max	4 CFM per 10	00 sq ft of cond. floor area)
Other Requirements	Mandatory (Base and Mandatory (Stretch Co	Stretch):	Mechanical system piping, 90% of lamps high efficacy Single-family: Solar ready	min. R-3	Multi-family: EV char Automatic or gravity Single-family: One L	ging requirend dampers for versel 1 EV-cha	nent is met:# spaces vent. system intake and exhaust
Signature:		(Owner) that the	ne above information is corre § 51. Date	ect and that the premis : 112/28/24	es listed have been 28 202	constructed in	n accordance with the Vermont Copies of the certificate (and Home Energy

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.

Jacob Robichaud/Jake@analyzingenergy.com/802 289-2177

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10/11/2024 Grumman Ln Waitsfield, VT 05673



Tests conducted

Blower door test:

A blower door is a powerful fan that mounts into the frame of an exterior door. The fan pulls air out of the house, lowering the air pressure to -50 pascals. A pascal is a unit of pressure. The outside air pressure then flows in through all unsealed cracks and openings.

Cubic feet per minute (CFM50):

This number represents the amount of air in cubic feet per minute that the fan must move to change the pressure in the home to 50 pascals.

Air exchange per hour (ACH):

This is the number of times, per hour, that the entire volume of air in the home is exchanged with outside air when the blower door is running.

Relatively speaking, ACH5 – ACH9 is a moderately leaky home, and anything over that is leaky.

Energy Audit Assessment

Pass/Fail

ACH 66 1.6 PASS							
FM75/SF							
Air-sealing and insulation recommendations:							
Attic.							
Attic access (hatch/pulldown stairs).							
Recessed light/bath fan fixtures.							
Knee wall floors/walls.							
Chimney/Flue penetrations.							
Doors. Windows.							
Wall penetrations. Drop ceilings/soffits.							
Base and ceiling moldings.							
Fire place. Band Joist.							
Basement/Crawlspace.							
Cantilevered floors. other.							



Jacob Robichaud is BPI Certified Building Analyst, Envelope Professional, and Healthy Home Evaluator.

Vermont building energy Code.	https://codes.iccsafe.org/content/VTCES2020P1/chapter-4-ce-commercial-energy-efficiency					
**	https://publicservice.vermont.gov/sites/dps/files/de VT Residential Energy Code Handbook v8.pdf					
	My UM	10-11-202/				
Notes:						
Signature	Jacob Robichaud					

Additional Notes: R-values may fluctuate depending on contractor's foam products.

