Pikes Peak **REGIONAL** Building Department

2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) RESIDENTIAL INSULATION CERTIFICATE

This certificate is based on the 2021 International Energy Conservation Code (IECC). This certificate is applicable to One- and Two- family Dwellings as well as Townhouses, R2, R-3 and R-4 buildings three stories or less in height. This certificate is required to be submitted as part of the plan review package.

ADDRESS OR MASTER #:

GARAGE IS: HEATED UNHEATED N/A

ADDITIONAL ENERGY EFFICIENCY OPTION (MUST CHOOSE ONE)

Enhanced envelope performance

(IECC R408.2.1)

More efficient HVAC equipment performance

(IECC R408.2.2)

Reduced energy use in service water-heating

(IECC R408.2.3)

More efficient duct thermal distribution system

(IECC R408.2.4)

Improved air sealing and efficient ventilation

system

(IECC R408.2.5)

N/A - at least 5% energy savings using Total

Building Performance or Energy rating index

(R401.2.5 items 2.2 or 3)

METHOD OF ENERGY CODE COMPLIANCE: (Climate Zone 5)

The IECC provides various options for compliance with minimum standards. Check the box to indicate the method of compliance and proceed to indicated form section. If additional documentation is required, it must accompany this form.

U-factor (IECC R402.1.2)

See Section 1

R-value alternative (IECC R402.1.3)/

R-value computation (IECC R402.1.4)

See Section 2

Total UA alternative (IECC R402.1.5)

See Section 3

ResCheck (IECC R402.1.5)

See Section 3

Heated sunroom or garage (IECC 402.2.12/

R402.3.5)

See Section 4

Total Building Performance (IECC R405)

See Section 5

Energy Rating Index Compliance Alternative (IECC

R406)

See Section 6

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	SECTION 1 - U-FACTOR (Table R402.1.2)														
	Door and Window U-Factor				Wood Frame Wa U-Value		lass Wall U-Value l		oor alue	Basement Wall U-Value		Slab R-Value/Depth		Crawlspace Wall U-Value	
	0.32 0.55 0.024		4	0.045 0.082		0.033		0.050 10c		10ci/	/4 ft	0.055			
	Wall U-Value				Floor U-Value				_	Slab perimeter R-Value					
	(wood frame or mass)				Basement Wall U-Value					Glazing U-Factor					
	Ceiling U-Value				Crawlspace Wall U-ValueDoor(s) U-Factor										
	SECTION 2 - R-VALUE ALTERNATIVE OR COMPUTATION (Table R402.1.3)														
	Door and Window U-Factor	Skylight U-Factor	Ceiling R-Value	Woo	od Frame Wall R-Value	Mass Wall R-Value				ent Wall Slab alue R-Value/Depth		Crawlspace Wall R-Value			
	0.32	0.55	60		r 20+5ci or 10ci or 20ci	13/17	;	30		r 15ci 3+5ci	10/			or 15ci 13+5ci	
	Wall	R-Value		Floo	_	Slab perimeter R-Value									
	(wood	frame or		Basement Wall R-Value					Glazing U-Factor						
	Ceilin	Crawlspace Wall R-ValueDoor(s) U-Factor													
	SECTION 3 - TOTAL UA ALTERNATIVE AND/OR RESCHECK (IECC R402.1.5)														
b T	This method requires additional documentation to prove compliance. Provide calculations showing the total building thermal envelope UA is less than or equal to the total UA resulting from multiplying the U-factors in Table R402.1.2 by the same assembly area as in the proposed building. This can either be manual calculations, or RESCheck calculations using the Department of Energy REScheck software.														
	Wall R/U-Value				Floor R/U-Value					Slab perimeter R/U-Value					
	(wood frame or mass)				Basement Wall R/U-ValueGlazing U-Factor										
	Ceiling R/U-ValueCrawlspace Wall R/U-ValueDoor(s) U-Factor														
		SECTIO	N 4 - HE	ATE	D SUNROC	OM OR G	ARA	GE (IE	CC R	402.2	12/R4	02.3.5	5)		
	SECTION 4 - HEATED SUNROOM OR GARAGE (IECC R402.2.12/R402.3.5) This section applies to sunrooms and heated garages only. Roof and wall insulation is allowed to be reduced due to these areas not being considered living spaces.														
	Door and Window U-Factor	Skylight U-Factor	Ceiline R-Valu		Wood Frame Wa R-Value	II Mass W R-Valu		Flo R-Va		Baseme R-Va		Sla R-Value		Crawlspace Wall R-Value	
	0.45	0.70	24		13	13		3	0	19 or or 13		10/4	4 ft	19 or 15ci or 13+5ci	
Wall R-Value					Floor R-Value					Slab perimeter R-Value					
	(wood frame or mass)				Basement Wall R-Value					Glazing U-Factor					
	Ceiling R-Value				Crawlspace Wall R-Value					Door(s) U-Factor					

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SECTION 5 - TOTAL BUILDING PERFORMANCE (IECC R405)

This method requires additional of	documentation to prove compliance.	Include the compliance software
report and summarize the values	below. Available only to design pro	ofessionals licensed in the State of
Colorado or by qualified persons a	s approved by the Building Official.	
Wall R-Value	Floor R-Value	Slab perimeter R-Value
(wood frame or mass)	Basement Wall R-Value	Glazing U-Factor
Ceiling R-Value	Crawlspace Wall R-Value	Door(s) U-Factor
SECTION 6 - ENERGY	RATING INDEX COMPLIANCE ALT	ERNATIVE (IECC R406)
This method requires additional o	locumentation to prove compliance.	Include the compliance software
report and summarize the values	below. Available only to design pro	ofessionals licensed in the State of
Colorado or by qualified persons a	s approved by the Building Official.	
Wall R-Value	Floor R-Value	Slab perimeter R-Value
(wood frame or mass)	Basement Wall R-Value	Glazing U-Factor
Ceiling R-Value	Crawlspace Wall R-Value	Door(s) U-Factor

INSPECTION REQUIREMENTS

Section R402.4 of the IECC requires the thermal envelope to be sealed to limit infiltration. The IECC requires the thermal envelope to be visually inspected and tested to demonstrate compliance with building envelope tightness requirements. Selection of the method of compliance shall occur when the Building Frame Inspection is scheduled. Below is a summary of the methods.

- 1. Third party visual inspection and testing with documentation required at time of final inspection.
- 2. RBD visual inspection and third party testing with documentation required at time of final inspection.

NOTE: The Total Building Performance and Energy Rating Index Alternatives require third party inspections.

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