2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021)

These requirements apply to all IRC building types, including detached one- and two-family dwellings and multiple single-family dwellings (townhouses).

Project Information	Contact Information
Barbara & Peter Sherland: 7234 91st Avenue SE	Patricia Brennan Architects
(206) 851-7232 / barbsherland@gmail.com	(206) 328-2886 / office@patriciabrennanarchitects.com

Instructions: This single-family project will use the requirements of the Prescriptive Path below and incorporate the minimum values listed. Based on the size of the structure, the appropriate number of additional credits are checked as chosen by the permit applicant.

Provide all information from the following tables as building permit drawings: Table R402.1 - Insulation and Fenestration Requirements by Component, Table R406.2 - Fuel Normalization Credits and 406.3 - Energy Credits.

Au	thorized Representative	6 Dunar	Date 9.2.21
		All Climate Zones (Table R402.1	1)
		R-Value ^a	U-Factor ^a
	nestration U-Factor ^b	n/a	0.30
Sky	light U-Factor ^b	n/a	0.50
Gla	zed Fenestration SHGC b,e	n/a	n/a
	ling ^e	49 ^J	0.026
Wc	ood Frame Wall ^{g,h}	21 int	0.056
Flo	or	30	0.029
Bel	ow Grade Wall ^{c,h}	10/15/21 int + TB	0.042
Slai	b ^{d,f} R-Value & Depth	10, 2 ft	n/a
c	the interior of the wall, or R-21 the interior of the basement w the interior of the basement w means R-5 thermal break betw	. cavity insulation plus a thermal break all. "10/15/21 +5TB" shall be permitte	of the wall, or R-15 continuous insulation on the between the slab and the basement wall and to be met with R-13 cavity insulation on the interior or exterior of the wall. "5TB"
e		ed ceilings, the insulation may be reduce	
f	slab insulation when applied to		to be equivalent to the required perimeter R503.1.1. If foam plastic is used, it shall
g	For log structures developed in climate zone 5 of ICC 400.	compliance with Standard ICC 400, lo	g walls shall meet the requirements for
h			ed in Section A103.2.2 including standard aders insulated with a minimum of R-10

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Each dwelling unit *in a residential building* shall comply with sufficient options from Table R406.2 (fuel normalization credits) and Table 406.3 (energy credits) to achieve the following minimum number of credits. To claim this credit, the building permit drawings shall specify the option selected and the maximum tested building air leakage, and show the qualifying ventilation system and its control sequence of operation.

1. Small Dwelling Unit: 3 credits

Dwelling units less than 1,500 sf in conditioned floor area with less than 300 sf of fenestration area. Additions to existing building that are greater than 500 sf of heated floor area but less than 1,500 sf.

2. Medium Dwelling Unit: 6 credits

All dwelling units that are not included in #1 or #3

3. Large Dwelling Unit: 7 credits

Dwelling units exceeding 5,000 sf of conditioned floor area

4. Additions less than 500 square feet: 1.5 credits

All other additions shall meet 1-3 above

Before selecting your credits on this Summary table, review the details in Table 406.3 (Single Family), on page 4.

	Summary of 1	Table R406.2		
Heating Options	Eugl Marmalization Descriptions	Credits - select ONE heating option		User Notes
1	Combustion heating minimum NAECAb	0.0		
2	Heat pump ^c	1.0		
3	Electric resistance heat only - furnace or zonal	-1.0		
4	DHP with zonal electric resistance per option 3.4	0.5		
5	All other heating systems	-1.0		
Energy Options	Energy Credit Option Descriptions	Credits - select ONE energy option from each category d		
1.1	Efficient Building Envelope	0.5		
1.2	Efficient Building Envelope	1.0		
1.3	Efficient Building Envelope	0.5		
1.4	Efficient Building Envelope	1.0		
1.5	Efficient Building Envelope	2.0		
1.6	Efficient Building Envelope	3.0		
1.7	Efficient Building Envelope	0.5		
2.1	Air Leakage Control and Efficient Ventilation	0.5		
2.2	Air Leakage Control and Efficient Ventilation	1.0		
2.3	Air Leakage Control and Efficient Ventilation	1.5		
2.4	Air Leakage Control and Efficient Ventilation	2.0		
3.1ª	High Efficiency HVAC	1.0	•	
3.2	High Efficiency HVAC	1.0		
3.3ª	High Efficiency HVAC	1.5		
3.4	High Efficiency HVAC	1.5		
3.5	High Efficiency HVAC	1.5		
	High Efficiency HVAC	2.0		
4.1	High Efficiency HVAC Distribution System	0.5		
100000	High Efficiency HVAC Distribution System	1.0		

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Summary of Table R406.2 (cont.)					
Energy Options	Energy Credit Option Descriptions (cont.) Credits - select Office energy option from	Credits - select ONE energy option from each category ^d		User Notes	
5.1 ^d		0.5			
5.2	Efficient Water Heating	0.5			
5.3	Efficient Water Heating	1.0			
5.4	Efficient Water Heating	1.5			
5.5	Efficient Water Heating	2.0			
5.6	Efficient Water Heating	2.5			
6.1 ^e	Renewable Electric Energy (3 credits max)	1.0			
7.1	Appliance Package	0.5	v		
	Total Credits		1.5	CLEAR FORM	

- a. An alternative heating source sized at a maximum of 0.5 W/sf (equivalent) of heated floor area or 500 W, whichever is bigger, may be installed in the dwelling unit.
- b. Equipment listed in Table C403.3.2(4) or C403.3.2(5)
- c. Equipment listed in Table C403.3.2(1) or C403.3.2(2)
- d. You cannot select more than one option from any category EXCEPT in category 5. Option 5.1 may be combined with options 5.2 through 5.6. See Table 406.3.
- e. 1.0 credit for each 1,200 kWh of electrical generation provided annually, up to 3 credits max. See the complete Table R406.2 for all requirements and option descriptions.

Please print only pages 1 through 3 of this worksheet for submission to your building official.