## Prescriptive Energy Code Compliance for All Climate Zones in Washington Multifamily (effective February 1, 2021)

Version 1.0

These requirements apply to Group R-2 buildings three stories or less in height above grade plane.

Other Group R-2 buildings must comply with the commercial energy code.

Project Information	Contact Information			
Bradley Heights Apartments	Milbrandt Architects 425.454.7130			
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**Instructions:** This multifamily 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.

Authorized Representative		Date		
	All Climate Zones (Table R402.1	l <b>.1)</b>		
	R-Value <sup>a</sup>		U-Factor <sup>a</sup>	
Fenestration U-Factor <sup>b</sup>	n/a		0.30	
Skylight U-Factor <sup>b</sup>	n/a		0.50	
Glazed Fenestration SHGC b,e	n/a		n/a	
Ceiling <sup>e</sup>	49		0.026	
Wood Frame Wall <sup>g,h</sup>	21 int		0.056	
Floor	30		0.029	
Below Grade Wall <sup>c,h</sup>	10/15/21 int + TB		0.042	
Slab <sup>d,f</sup> R-Value & Depth	10, 2 ft		n/a	
the interior of the wall, or R-21 the interior of the basement wa	ontinuous insulation on the exterior of cavity insulation plus a thermal break III. "10/15/21 +5TB" shall be permitted us R-5 continuous insulation on the i	between the sla I to be met with	b and the basement wall at R-13 cavity insulation on th	
	quired under heated slab on grade flo	ors. See Section	R402.2.9.1.	
	d ceilings, the insulation may be reduc			
	alled over an existing slab is deemed t existing slabs complying with Section arriers protecting foam plastics.	•		
	compliance with Standard ICC 400, log	g walls shall mee	et the requirements for	
	otes framing and insulation as describe % of the wall cavity insulated and hea			

## 2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Multifamily (effective February 1, 2021)

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) so as to achieve the following minimum number of credits:

• Multifamily R2 Dwelling Unit: 4.5 credits

Before selecting your credits on this Summary table, review the details in Table 406.3 (Multifamily), on page 3.

Uaati	Summary (Ta	,	L a gue	
Heating Options	Fuel Normalization Descriptions	escriptions Credits - select ONE heating option		User Notes
1	Combustion heating minimum NAECAb	0.0		
2	Heat pump <sup>c</sup>	1.0		
3	3 Electric resistance heat only - furnace or zonal			
4	4 DHP with zonal electric resistance per option 3.4		•	
5	5 All other heating systems			
Energy Options	Energy Credit Option Descriptions	Credits - select ONE energy option from each category <sup>d</sup>		
1.1	Efficient Building Envelope	0.5		
1.2				
1.4	1.4 Efficient Building Envelope			
1.5	Efficient Building Envelope	1.5		
1.6	Efficient Building Envelope	2.0		
1.7	Efficient Building Envelope	0.5		
2.1	Air Leakage Control and Efficient Ventilation	1.0	•	
2.2	.2 Air Leakage Control and Efficient Ventilation			
2.3	Air Leakage Control and Efficient Ventilation			
2.4	Air Leakage Control and Efficient Ventilation	2.5		
3.1ª	High Efficiency HVAC	1.0		
3.3ª	High Efficiency HVAC	1.0		
3.4	High Efficiency HVAC	2.0	•	
3.6ª	High Efficiency HVAC □	3.0		
4.1	High Efficiency HVAC Distribution System	0.5		
5.1 <sup>d</sup>	Efficient Water Heating	0.5		
5.2	Efficient Water Heating	0.5		
5.3	Efficient Water Heating	1.0		
5.4	Efficient Water Heating	2.0		
5.5	Efficient Water Heating	2.5		
5.6	Efficient Water Heating	3.0		
6. 1 <sup>e</sup>	Renewable Electric Energy (3 credits max)	1.0		
7.1	Appliance Package	1.5	V	
	Total Credits		4.5 Cale	culate Total Clear

- 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 Table R406.2 for full requirements and complete option descriptions.
- f. Use the single radiobutton in the upper right of the second column to deselect radiobuttons in that group.

Please print only pages 1 and 2 of this worksheet for submission to your building official.