2018 Washington State Energy Code — Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington

Multifamily (effective February 1, 2021)

Version 1.2

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				
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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.

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	All Clima	ate Zones (Table R40	2.1.1)			
	R-Value ^a			U-Factor ^a		
Fenestration U-Factor ^b		n/a		0.30		
Skylight U-Factor ^b		n/a		0.50		
Glazed Fenestration SHGC b,e		n/a		n/a		
Ceiling ^e		49		0.026		
Wood Frame Wall ^{g,h}		21 int		0.056		
Floor		30			0.029	
Below Grade Wall c,h	10/	/15/21 int + TB		0.042		
Slab ^{d,f} R-Value & Depth		10, 2 ft		n/a		
a than the label or design thi A101.4 shall not be less tha b The fenestration U-factor c	n the R-value specif	fied in the table.	d R-value of	the ins	sulation from Appendix Table	
c the interior of the basemer	nt wall. "10/15/21 +: all plus R-5 continuo	5TB" shall be permitt ous insulation on the	ted to be m	et with	ib and the basement wall at R-13 cavity insulation on the r of the wall. "5TB" means R	
d R-10 continuous insulation	is required under he	eated slab on grade f	loors. See S	Section	R402.2.9.1.	
e For single rafter- or joist-va		nsulation may be red	uced to R-3	8 if the	full insulation depth extend	
R-7.5 continuous insulation f slab insulation when applie the requirements for therm	d to existing slabs c	omplying with Sectio				
For log structures develope climate zone 5 of ICC 400.			log walls sh	all mee	et the requirements for	
Int. (intermediate framing) h framing 16 inches on cente insulation.						
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For Building Officials Only						

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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) 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.

	Summary (Ta			
Heating Options	Fuel Normalization Descriptions	Credits - select ONE heating option		User Notes
1	Combustion heating minimum NAECA ^b	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	na		
5	All other heating systems	-0.5		
Energy Options	Pagray (Pagit (Intion) laccrintions		select ONE ion from each agory d	
1.1	Efficient Building Envelope	0.5		
1.2	Efficient Building Envelope	1.0	•	
1.4	Efficient Building Envelope	1.0		
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	Air Leakage Control and Efficient Ventilation	1.5		
2.3	Air Leakage Control and Efficient Ventilation	2.0		
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 ^d	Efficient Water Heating	0.5	7	
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. 1e	Renewable Electric Energy (3 credits max)	1.0		
7.1	Appliance Package	1.5		
	Total Credits		4.5	Calculate Total Clear Form

- 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.
- Equipment listed in Table C403.3.2(4) or C403.3.2(5)
 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.
- 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.
- 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

Credit 1.2 does not comply with glazing schedule of U=0.20 fenestration. Revise to match. Page: Energy Worksheet