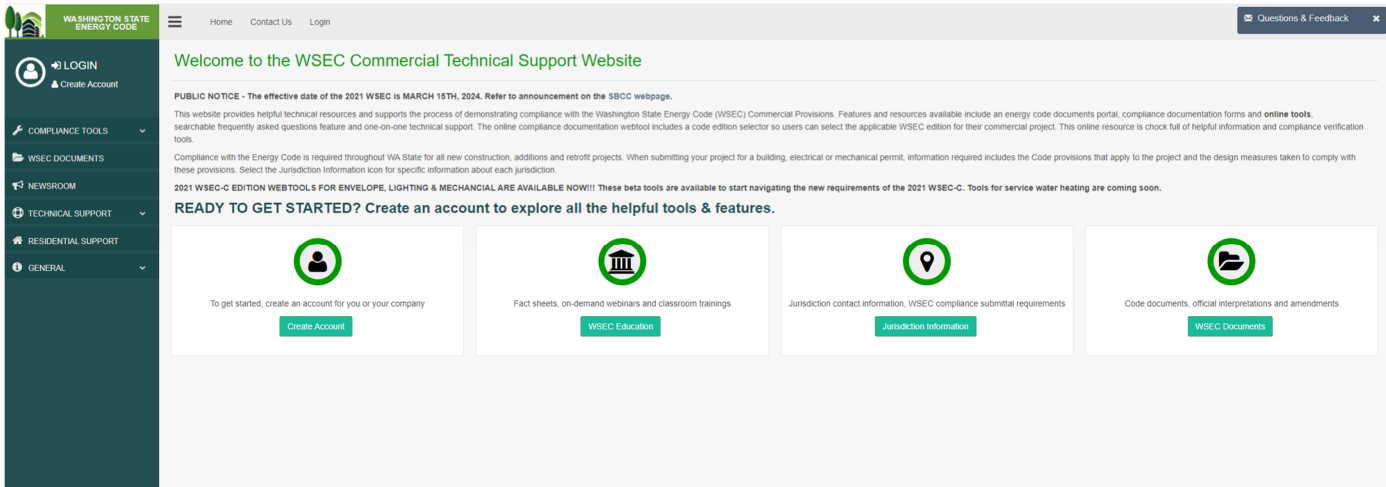


COMMERCIAL/MULTI-FAMILY ENERGY CODE REQUIREMENTS

The energy code documents are a set of documents that show the proposed structures compliance with the most current Washington State Residential Energy Code (WSEC). The documents listed below shall be submitted together as one PDF document and be fully filled out.

WORKSHEETS

[Commercial-Energy-Compliance-Form](#) (Must create a login account)



[Multi-Family-Prescriptive-Form](#)

2021 Washington State Energy Code - Residential
Prescriptive Energy Code Compliance for All Climate Zones in Washington
Multi-Family - New & Additions (effective March 15, 2024)

Permit# _____ Address or Lot & Block _____
City _____ Zip _____

These requirements apply to all Dwelling units serving Group R-2 occupancies. See Section R401.1 and residential building in Section R202 for Group R-2 scope.

Installation:
This multifamily project uses the requirements of the Prescriptive Path below to incorporate the minimum values listed. Additional credits must be verified by the permit applicant.
Provide all information from the following tables in the building permit drawings: Table R402.2.2 - Installation and Penetration Requirements by Component, Table R402.2 - Energy Equalization Credits and R403.3 - Energy Credits.

Authorized Representative	Signature	Date
_____	_____	_____

All Climate Zones - Table R402.2.2		
Component	Minimum Value	Maximum Value
Transpiration U-Factor**	N/A	0.30
Single-Glazed Window**	N/A	0.30
Double-Glazed Window**	0.20	0.25
Door**	N/A	0.30
Other**	N/A	0.30
Roof U-Factor**	0.04	0.04
Other**	N/A	0.04

Table R402.2.2 - Installation and Penetration Requirements by Component

1. The maximum U-factor for any window or door shall not exceed the maximum U-factor for the component in the table. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope.

2. The maximum U-factor for any window or door shall not exceed the maximum U-factor for the component in the table. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope.

3. The maximum U-factor for any window or door shall not exceed the maximum U-factor for the component in the table. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope.

4. The maximum U-factor for any window or door shall not exceed the maximum U-factor for the component in the table. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope.

5. The maximum U-factor for any window or door shall not exceed the maximum U-factor for the component in the table. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope.

6. The maximum U-factor for any window or door shall not exceed the maximum U-factor for the component in the table. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope.

7. The maximum U-factor for any window or door shall not exceed the maximum U-factor for the component in the table. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope.

8. The maximum U-factor for any window or door shall not exceed the maximum U-factor for the component in the table. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope.

9. The maximum U-factor for any window or door shall not exceed the maximum U-factor for the component in the table. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope.

10. The maximum U-factor for any window or door shall not exceed the maximum U-factor for the component in the table. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope. The U-factor for a window or door shall be based on the U-factor of the window or door as installed in the building envelope.

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Each dwelling unit at a residential building shall comply with sufficient options from Table R402.2 (Energy Equalization Credits) and Table R403.3 (Energy Credits) to achieve the following minimum number of credits. To earn this credit, the building permit drawings shall identify the option selected and the maximum tested building air leakage, and show the qualifying verification system and its control sequence of operation.

4. Dwelling units serving Group R-2 occupancies: _____ 6.5 credits
5. Address 150 square feet or less: _____ 3.0 credits

The drawings included with the building permit application shall identify which options have been selected and the point value of each option, regardless of whether separate mechanical, plumbing, electrical, or other permits are issued for the project.

Before selecting your credits on this Summary Table, review the details in Table A03.3 (Multi-Family Form), on page 4.

System Type	Description of Primary Heating Source	Credits
1	For combustion heating equipment meeting minimum Federal efficiency standards for the equipment listed in Table C403.3.201 or C403.3.202	0.5
2	For an air heating system using a heat pump that meets minimum standards for the equipment listed in Table C403.3.201 or C403.3.202 and an associated heating provided by electric resistance or a combustion heating system meeting minimum standards listed in Table C403.3.201 or C403.3.202	0.5
3	For heating system based on electric resistance unit (water heat or air heat)	0.5
4	For heating system using a heat pump that meets minimum standards for the equipment listed in Table C403.3.201 or C403.3.202 or an air-to-water heat pump unit that is configured to provide both heating and cooling and an installed in accordance with ASHRAE 90.1-2019	2.0
5	For heating system based on electric resistance with: 1. Inverter driven ductless mini-split heat pump system installed in the largest zone in the dwelling. 2. WWS 200 or less total installed heating capacity per dwelling	0.5

a. See Section R402.1 and residential building in Section R202 for Group R-2 scope.
b. The gas boiler furnace and operates at an efficiency when the heat pump is operating. The heat pump shall operate at all temperatures above 38°F (3°C) (or lower). Show that "the gas boiler" requirement. The heat pump would not operate at a pressure greater than 150 psi. The gas boiler shall have a minimum efficiency of 80% (or lower).
c. Additional credits for the HVAC system are included in Table R403.3.

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Option	Energy Credit Description	Credits	Comments
1.1	Efficient Building Envelope	0.5	
1.2	Efficient Building Envelope	1.0	
1.3	Efficient Building Envelope	1.5	
1.4	Efficient Building Envelope	2.0	
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	
2.5	Air Leakage Control and Efficient Ventilation	3.0	
2.6	Air Leakage Control and Efficient Ventilation	3.5	
2.7	Air Leakage Control and Efficient Ventilation	4.0	
2.8	Air Leakage Control and Efficient Ventilation	4.5	
2.9	Air Leakage Control and Efficient Ventilation	5.0	
2.10	Air Leakage Control and Efficient Ventilation	5.5	
2.11	Air Leakage Control and Efficient Ventilation	6.0	
2.12	Air Leakage Control and Efficient Ventilation	6.5	
2.13	Air Leakage Control and Efficient Ventilation	7.0	
2.14	Air Leakage Control and Efficient Ventilation	7.5	
2.15	Air Leakage Control and Efficient Ventilation	8.0	
2.16	Air Leakage Control and Efficient Ventilation	8.5	
2.17	Air Leakage Control and Efficient Ventilation	9.0	
2.18	Air Leakage Control and Efficient Ventilation	9.5	
2.19	Air Leakage Control and Efficient Ventilation	10.0	
2.20	Air Leakage Control and Efficient Ventilation	10.5	
2.21	Air Leakage Control and Efficient Ventilation	11.0	
2.22	Air Leakage Control and Efficient Ventilation	11.5	
2.23	Air Leakage Control and Efficient Ventilation	12.0	
2.24	Air Leakage Control and Efficient Ventilation	12.5	
2.25	Air Leakage Control and Efficient Ventilation	13.0	
2.26	Air Leakage Control and Efficient Ventilation	13.5	
2.27	Air Leakage Control and Efficient Ventilation	14.0	
2.28	Air Leakage Control and Efficient Ventilation	14.5	
2.29	Air Leakage Control and Efficient Ventilation	15.0	
2.30	Air Leakage Control and Efficient Ventilation	15.5	
2.31	Air Leakage Control and Efficient Ventilation	16.0	
2.32	Air Leakage Control and Efficient Ventilation	16.5	
2.33	Air Leakage Control and Efficient Ventilation	17.0	
2.34	Air Leakage Control and Efficient Ventilation	17.5	
2.35	Air Leakage Control and Efficient Ventilation	18.0	
2.36	Air Leakage Control and Efficient Ventilation	18.5	
2.37	Air Leakage Control and Efficient Ventilation	19.0	
2.38	Air Leakage Control and Efficient Ventilation	19.5	
2.39	Air Leakage Control and Efficient Ventilation	20.0	
2.40	Air Leakage Control and Efficient Ventilation	20.5	
2.41	Air Leakage Control and Efficient Ventilation	21.0	
2.42	Air Leakage Control and Efficient Ventilation	21.5	
2.43	Air Leakage Control and Efficient Ventilation	22.0	
2.44	Air Leakage Control and Efficient Ventilation	22.5	
2.45	Air Leakage Control and Efficient Ventilation	23.0	
2.46	Air Leakage Control and Efficient Ventilation	23.5	
2.47	Air Leakage Control and Efficient Ventilation	24.0	
2.48	Air Leakage Control and Efficient Ventilation	24.5	
2.49	Air Leakage Control and Efficient Ventilation	25.0	
2.50	Air Leakage Control and Efficient Ventilation	25.5	
2.51	Air Leakage Control and Efficient Ventilation	26.0	
2.52	Air Leakage Control and Efficient Ventilation	26.5	
2.53	Air Leakage Control and Efficient Ventilation	27.0	
2.54	Air Leakage Control and Efficient Ventilation	27.5	
2.55	Air Leakage Control and Efficient Ventilation	28.0	
2.56	Air Leakage Control and Efficient Ventilation	28.5	
2.57	Air Leakage Control and Efficient Ventilation	29.0	
2.58	Air Leakage Control and Efficient Ventilation	29.5	
2.59	Air Leakage Control and Efficient Ventilation	30.0	
2.60	Air Leakage Control and Efficient Ventilation	30.5	
2.61	Air Leakage Control and Efficient Ventilation	31.0	
2.62	Air Leakage Control and Efficient Ventilation	31.5	
2.63	Air Leakage Control and Efficient Ventilation	32.0	
2.64	Air Leakage Control and Efficient Ventilation	32.5	
2.65	Air Leakage Control and Efficient Ventilation	33.0	
2.66	Air Leakage Control and Efficient Ventilation	33.5	
2.67	Air Leakage Control and Efficient Ventilation	34.0	
2.68	Air Leakage Control and Efficient Ventilation	34.5	
2.69	Air Leakage Control and Efficient Ventilation	35.0	
2.70	Air Leakage Control and Efficient Ventilation	35.5	
2.71	Air Leakage Control and Efficient Ventilation	36.0	
2.72	Air Leakage Control and Efficient Ventilation	36.5	
2.73	Air Leakage Control and Efficient Ventilation	37.0	
2.74	Air Leakage Control and Efficient Ventilation	37.5	
2.75	Air Leakage Control and Efficient Ventilation	38.0	
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2.77	Air Leakage Control and Efficient Ventilation	39.0	
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2.80	Air Leakage Control and Efficient Ventilation	40.5	
2.81	Air Leakage Control and Efficient Ventilation	41.0	
2.82	Air Leakage Control and Efficient Ventilation	41.5	
2.83	Air Leakage Control and Efficient Ventilation	42.0	
2.84	Air Leakage Control and Efficient Ventilation	42.5	
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2.110	Air Leakage Control and Efficient Ventilation	55.5	
2.111	Air Leakage Control and Efficient Ventilation	56.0	
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2.118	Air Leakage Control and Efficient Ventilation	59.5	
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2.120	Air Leakage Control and Efficient Ventilation	60.5	
2.121	Air Leakage Control and Efficient Ventilation	61.0	
2.122	Air Leakage Control and Efficient Ventilation	61.5	
2.123	Air Leakage Control and Efficient Ventilation	62.0	
2.124	Air Leakage Control and Efficient Ventilation	62.5	
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2.126	Air Leakage Control and Efficient Ventilation	63.5	
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2.131	Air Leakage Control and Efficient Ventilation	66.0	
2.132	Air Leakage Control and Efficient Ventilation	66.5	
2.133	Air Leakage Control and Efficient Ventilation	67.0	
2.134	Air Leakage Control and Efficient Ventilation	67.5	
2.135	Air Leakage Control and Efficient Ventilation	68.0	
2.136	Air Leakage Control and Efficient Ventilation	68.5	
2.137	Air Leakage Control and Efficient Ventilation	69.0	
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2.140	Air Leakage Control and Efficient Ventilation	70.5	
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2.142	Air Leakage Control and Efficient Ventilation	71.5	
2.143	Air Leakage Control and Efficient Ventilation	72.0	
2.144	Air Leakage Control and Efficient Ventilation	72.5	
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2.147	Air Leakage Control and Efficient Ventilation	74.0	
2.148	Air Leakage Control and Efficient Ventilation	74.5	
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2.150	Air Leakage Control and Efficient Ventilation	75.5	
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2.158	Air Leakage Control and Efficient Ventilation	79.5	
2.159	Air Leakage Control and Efficient Ventilation	80.0	
2.160	Air Leakage Control and Efficient Ventilation	80.5	
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2.170	Air Leakage Control and Efficient Ventilation	85.5	
2.171	Air Leakage Control and Efficient Ventilation	86.0	
2.172	Air Leakage Control and Efficient Ventilation	86.5	
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2.183	Air Leakage Control and Efficient Ventilation	92.0	
2.184	Air Leakage Control and Efficient Ventilation	92.5	
2.185	Air Leakage Control and Efficient Ventilation	93.0	
2.186	Air Leakage Control and Efficient Ventilation	93.5	
2.187	Air Leakage Control and Efficient Ventilation	94.0	
2.188	Air Leakage Control and Efficient Ventilation	94.5	
2.189	Air Leakage Control and Efficient Ventilation	95.0	
2.190	Air Leakage Control and Efficient Ventilation	95.5	
2.191	Air Leakage Control and Efficient Ventilation		