

FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITEE ON SITE FOR INSPECTION

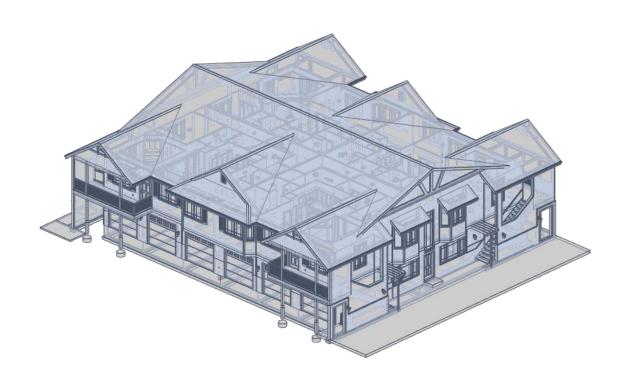


## 2018 WSEC WORKSHEET - CLIMATE ZONE 4, 5&6

DATE: 10-10-2022 PROJECT#: PHS21.136

**PLAN: Copperberry Condominiums** 

SITE ADDRESS: 4002 10<sup>th</sup> St Se Puyallup, WA 98374





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

Version 1.1

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
Bill Riley Communities	Pacific Home Source LLC
Copperberry Condominiums	gabe@pacifichomesource.com

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.

	thorized Representative	Leen	Date	03/01/2023
		All Climate Zones (Table R402.	1.1)	
PO-F1 (1944)		R-Value <sup>a</sup>		U-Factor <sup>a</sup>
Fe	nestration U-Factor <sup>b</sup>	n/a		0.30
	ylight U-Factor <sup>b</sup>	n/a		0.50
Gl	azed Fenestration SHGC <sup>b,e</sup>	n/a	A Comment	n/a
Ce	iling <sup>e</sup>	49		0.026
W	ood Frame Wall <sup>g,h</sup>	21 int		0.056
Flo	or	30		0.029
Ве	low Grade Wall <sup>c,h</sup>	10/15/21 int + TB	A CONTRACTOR OF THE CONTRACTOR	0.042
Sla	b <sup>d,f</sup> R-Value & Depth	10, 2 ft	ercy spirit shade	n/a
C		wall. "10/15/21 +5TB" shall be permitte		
d	5 thermal break between flo R-10 continuous insulation is	or slab and basement wall. required under heated slab on grade flo	oors. See Section	R402.2.9.1.
d e	5 thermal break between flo R-10 continuous insulation is For single rafter- or joist-vau over the top plate of the exte	or slab and basement wall. required under heated slab on grade flo ted ceilings, the insulation may be reduce erior wall.	oors. See Section ced to R-38 if the	R402.2.9.1. e full insulation depth extend
en moisoni	5 thermal break between flo R-10 continuous insulation is For single rafter- or joist-vau over the top plate of the exte R-7.5 continuous insulation is slab insulation when applied	or slab and basement wall. required under heated slab on grade flo ted ceilings, the insulation may be reduc	oors. See Section ced to R-38 if the to be equivalent	e full insulation depth extend to the required perimeter
е	5 thermal break between flood R-10 continuous insulation is For single rafter- or joist-vau over the top plate of the exter R-7.5 continuous insulation is slab insulation when applied the requirements for thermal	or slab and basement wall. required under heated slab on grade flo ted ceilings, the insulation may be reduce rior wall. installed over an existing slab is deemed to existing slabs complying with Section	oors. See Section ed to R-38 if the to be equivalent R503.1.1. If foa	R402.2.9.1.  In the full insulation depth extend  In to the required perimeter  In plastic is used, it shall mee
e f	5 thermal break between flo R-10 continuous insulation is For single rafter- or joist-vau over the top plate of the exte R-7.5 continuous insulation is slab insulation when applied the requirements for thermal For log structures developed climate zone 5 of ICC 400. Int. (intermediate framing) d	or slab and basement wall.  required under heated slab on grade flotted ceilings, the insulation may be reduced in the state of the sta	oors. See Section ced to R-38 if the to be equivalent R503.1.1. If foa g walls shall me	R402.2.9.1.  In the required perimeter of the plastic is used, it shall mee net the requirements for the requirements for 03.2.2 including standard



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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.

Heating Options	Fuel Normalization Descriptions		elect ONE option	User Notes
1	Combustion heating minimum NAECAb	0.0		
2	Heat pump <sup>c</sup>	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	L	
Energy Options	Energy Credit Option Descriptions	energy option	elect ONE on from each gory <sup>d</sup>	
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	000000000000000000000000000000000000000	
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	<b>.</b>	
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	promoto vi oj	
6. 1 <sup>e</sup>	Renewable Electric Energy (3 credits max)	1.0		
7.1	Appliance Package	1.5		

 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.

 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.



### Window, Skylight and Door Schedule

Project Information

Copperberry BRC Family Puyallup, WA Contact Information

Pacific Home Source	
253.312.5523	
gabe@pacifichomesource.com	

	Ref.	U-factor	Qt.	Width Height Feet Inch Feet Inch	Area	UA
Exempt Swinging Door (24 sq. ft. max.)					0.0	0.00
Exempt Glazed Fenestration (15 sq. ft. max.)					0.0	0.00

### **Vertical Fenestration (Windows and doors)**

Component		
Description	Ref.	U-factor
Entry Door	Α	0.30
Dining	Α	0.30
Mbed	Α	0.30
Mbed	Α	0.30
Bedroom 2	А	0.30
Living Room	Α	0.30
Entry Door	D	0.30
Living Room	D	0.30
Bedroom 2	D	0.30
Mbed	D	0.30
Mbed	D	0.30
Entry Door	В	0.30
Den/Bedroom	В	0.30
MBed	В	0.30
Bbed	В	0.30
Bedroom	В	0.30
Living Room	В	0.30
Living Room	В	0.30
Entry Door	E	0.30
Living Room	Е	0.30
Living Room	E	0.30
Bedroom	E	0.30
Mbed	E	0.30
Mbed	E	0.30
Den/Bedroom	E	0.30
Entry Door	F	0.30
Dining	F	0.30
Mbed	F	0.30
Mbed	F	0.30
Bedroom 2	F	0.30
Entry Door	С	0.30
Living Room	С	0.30
Living Room	С	0.30
Bedroom	С	0.30
Mbed	С	0.30

	Widtl		Heigl	ht Inch
Qt.	Feet	0	Feet	8
1	3	0	6	0
1	6		5	
1 1 1 1	2	0	5	0
1	6	0	5	0
1	6	0	5	0
1	6	0	6	0
1	3	0	6	8
1	6	0	6	0
	6	0	5	0
1	2	0	5	0
1	6	0	5	0
1	3	0	6	8
1	6	0	5	0
1	2	0	5	0
1 1 1	6	0	5	0
1	6	0	4	6
	4	0	6	0
1	6	0	6	0
1	3	0	6	8
1	6	0	6	0
1	4	0	6	0
1	6	0	5	0
1	2	0	5	0
1	6	0	5	0
1	6	0	5	0
1	3	0	6	8
1	6	0	5	0
1	2	0		0
1	6	0	5 5	0
1	6	0	5	0
1	3	0	6	8
1	6	0	6	0
1	5	0	4	6
1	6	0	4	6
1	2	0	5	0

Area	UA
20.0	6.00
30.0	9.00
10.0	3.00
30.0	9.00
30.0	9.00
36.0	10.80
20.0	6.00
36.0	10.80
30.0	9.00
10.0	3.00
30.0	9.00
20.0	6.00
30.0	9.00
10.0	3.00
30.0	9.00
27.0	8.10
24.0	7.20
36.0	10.80
20.0	6.00
36.0	10.80
24.0	7.20
30.0	9.00
10.0	3.00
30.0	9.00
30.0	9.00
20.0	6.00
30.0	9.00
10.0	3.00
30.0	9.00
30.0	9.00
20.0	6.00
36.0	10.80
22.5	6.75
27.0	8.10
10.0	3.00



Mbed	С	0.30
Back doors	A-F	0.30

1	6	0	5	0
6	3	0	6	8

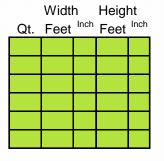
30.0	9.00
120.0	36.00
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00

Sum of Vertical Fenestration Area and UA Vertical Fenestration Area Weighted U = UA/Area

1024.5	307.35
	0.30

#### Overhead Glazing (Skylights)

Component		
Description	Ref.	U-factor



Area	UA
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00

Sum of Overhead Glazing Area and UA Overhead Glazing Area Weighted U = UA/Area

0.0	0.00
	0.00

Total Sum of Fenestration Area and UA (for heating system sizing calculations)

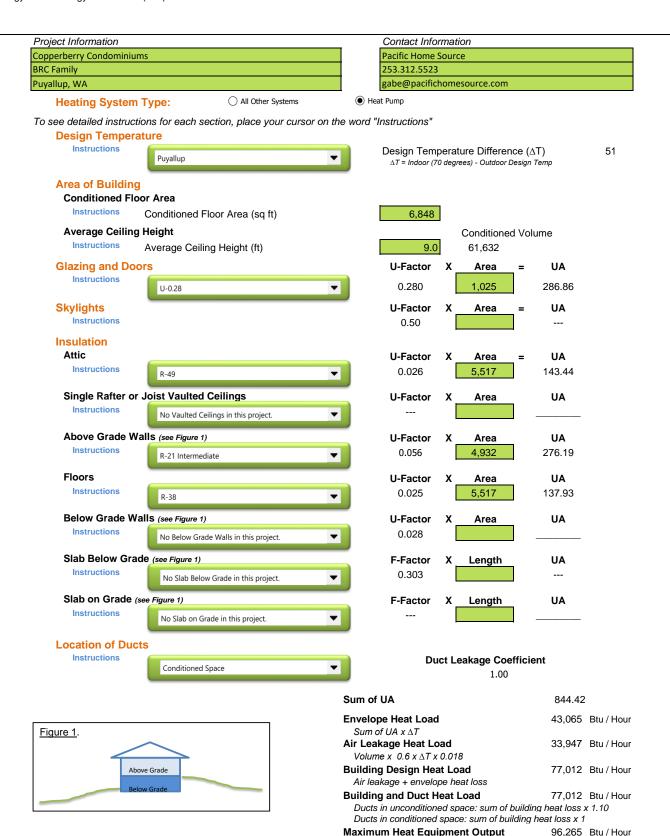
307.35

# City of Puyallup Development & Permitting Servic ISSUED PERMIT Building Planning Engineering Public Works Fire Traffic

#### Simple Heating System Size: Washington State

This heating system sizing calculator is based on the Prescriptive Requirements of the 2018 Washington State Energy Code (WSEC) and ACCA Manuals J and S. This tool will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads.

Please complete the green drop-downs and boxes that are applicable to your project. As you make selections in the drop-downs for each section, some values will be calculated for you. If you do not see the selection you need in the drop-down options, please contact the WSU Energy Program at energycode@energy.wsu.edu or (360) 956-2042 for assistance.



Building and duct heat loss x 1.40 for forced air furnace Building and duct heat loss x 1.25 for heat pump