#### Window, Skylight and Door Schedule

Project Information

-,	
New SFR	
9167 SE 64th st	
Mercer Island, 98040	

Contact Information

Curtis Heard	
559-593-2038	

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

Component		
Description	Ref.	U-factor
Entry- Fixed		0.28
Her Closet- Fixed		0.28
Mstr Bath- Fixed		0.28
Mstr Bath- Fixed		0.28
Mstr Shower/ his closet- Fixed		0.28
Mstr Bedroom- Fixed		0.28
Mstr Bedroom- Fixed		0.28
Mstr Bedroom- Case		0.28
Living- SGD		0.28
Kitchen- XO		0.28
Office- XO		0.28
Laundry- SH		0.28
Bed 2, 3 bath- XO		0.28
Bed 2, 5- Case		0.28
Bed 2, 5- Fixed		0.28
Rec Room- SGD		0.28
Bed 3, 4- XO		0.28
		0.28
		0.28
		0.28

Qt.	Widtl Feet	h Inch	Heigl Feet	h <b>t</b> Inch
1	1	6	6	6
1	2	0	5	0
1	5	0	6 5 7	6
1	1	6		0
2	1 4	0	5 1	0
4	2	0	2	0
2	3	0	6	6
2	3	0	6	6
1	16	0	8	0
1	5	0	4	6
1	5	0	5	0
1	3	0	5	0
2	3	6	1	6
1 1 1 2 4 2 2 1 1 1 1 2 4 2 2 2 1 2 2 2 2	3	0	6	6
2	3	0	6	6
2	16	0	8	0

Area	UA
9.8	2.73
10.0	2.80
37.5	10.50
7.5	2.10
8.0	2.24
16.0	4.48
39.0	10.92
39.0	10.92
128.0	35.84
22.5	6.30
25.0	7.00
15.0	4.20
10.5	2.94
78.0	21.84
39.0	10.92
256.0	71.68
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00
0.0	0.00
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0.0	0.00
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		Sum of Ve	ertical Fenesti	ration Area	a and UA	L	740.8	207.41
	Vertica	l Fenestra	tion Area Wei	ghted U =	UA/Area			0.28
Overhead Glazing (Skylights)								
Overhead Glazing (Skylights)  Component				Width	Height			
	Ref.	U-factor	Qt.	Width Feet Inch		) 	Area	UA
Component	Ref.	U-factor	Qt.			· ] [	Area	UA 0.00
Component	Ref.	U-factor	Qt.			, } [	1	1
Component	Ref.	U-factor	Qt.				0.0	0.00
Component	Ref.	U-factor	Qt.				0.0	0.00
Component	Ref.	U-factor	Qt.				0.0 0.0 0.0	0.00 0.00 0.00
Component	Ref.	U-factor	Qt.				0.0 0.0 0.0 0.0	0.00 0.00 0.00 0.00
Component	Ref.	U-factor	Qt.				0.0 0.0 0.0 0.0 0.0	0.00 0.00 0.00 0.00 0.00

Overhead Glazing Area Weighted U = UA/Area

0.00

#REF!

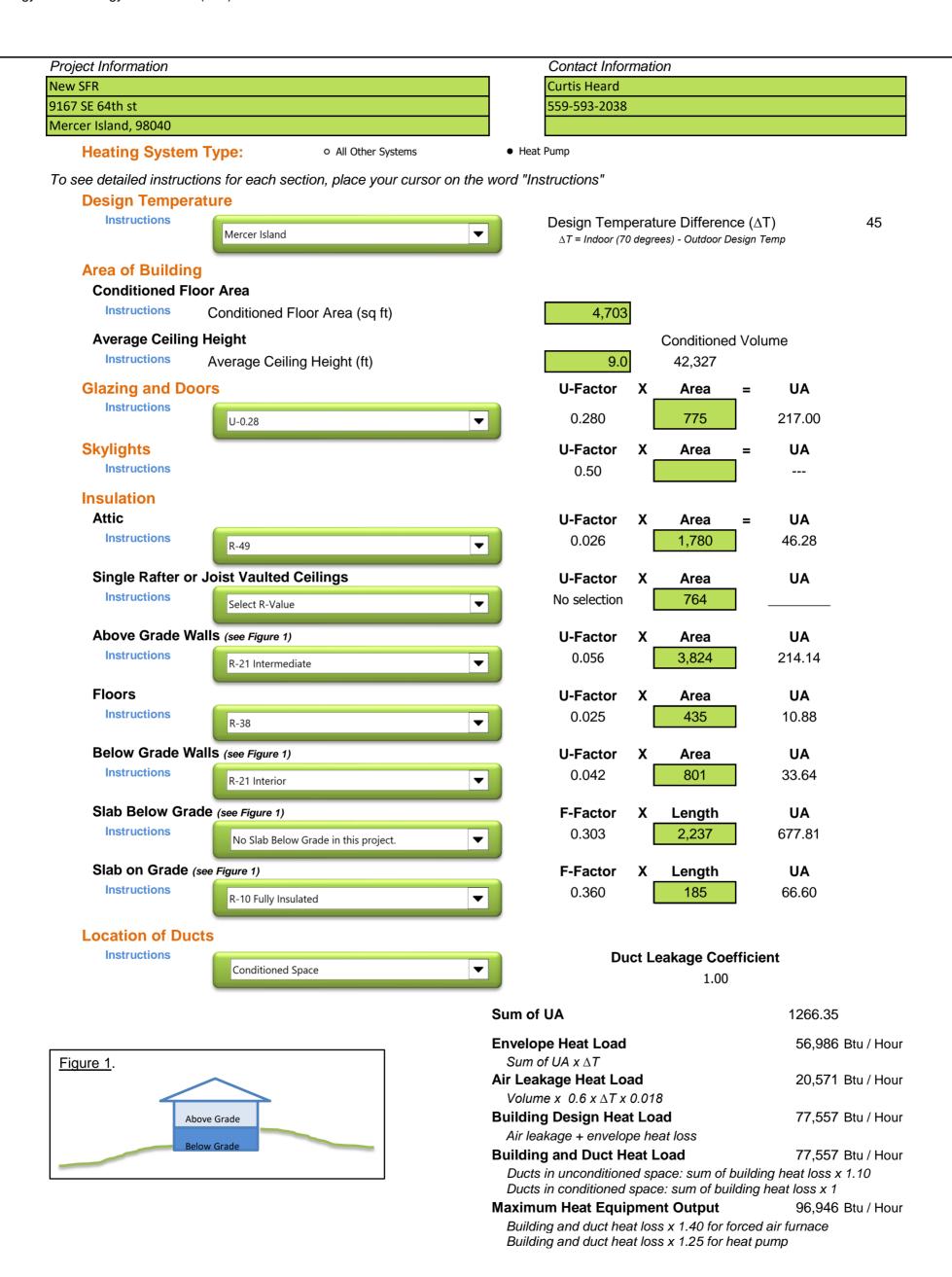
774.8

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

#### 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.



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

Version 1.0

### 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
New SFR		Curtis Heard
9167 SE 64th st, Mercer Isalnd, 98040		559-593-2038

**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.

Aut	horized Representative	X	Date						
	All Climate Zones (Table R402.1.1)								
	R-Value <sup>a</sup> U-Factor <sup>a</sup>								
Fen	estration U-Factor <sup>b</sup>	n/a		0.30					
Skyl	ight U-Factor <sup>b</sup>	n/a		0.50					
Glaz	red Fenestration SHGC b,e	n/a		n/a					
Ceil	ing <sup>e</sup>	49		0.026					
Wo	od Frame Wall <sup>g,h</sup>	21 int		0.056					
Floo	or	30		0.029					
	ow Grade Wall <sup>c,h</sup>	10/15/21 int + TB		0.042					
Slab	o <sup>d,f</sup> R-Value & Depth	10, 2 ft		n/a					
a b	Table A101.4 shall not be less than the <i>R</i> -value specified in the table.  b The fenestration <i>U</i> -factor column excludes skylights.  "10/15/21 +5TB" means R-10 continuous insulation on the exterior of the wall, or R-15 continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at								
d	R-10 continuous insulation	is required under heated slab on grade floors	. See Section R4	02.2.9.1.					
e	For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38 if the full insulation depth								
f	R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required perimeter								
g	For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for								
h	Int. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard framing 16 inches on center, 78% of the wall cavity insulated and headers insulated with a minimum of R-10 insulation.								

## 2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (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) 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 Ta	able R406.2		
Heating Options	Fuel Normalization Descriptions		select ONE g option	User Notes
1	Combustion heating minimum NAECA <sup>b</sup>	0.0	0	
2	Heat pump <sup>c</sup>	1.0	•	
3	Electric resistance heat only - furnace or zonal	-1.0	0	
4	DHP with zonal electric resistance per option 3.4	0.5	0	
5	All other heating systems	-1.0	0	
Energy Options	Energy Credit Option Descriptions	Credits - select ONE energy option from each category <sup>d</sup>		
1.1	Efficient Building Envelope	0.5	0	
1.2	Efficient Building Envelope	1.0	0	
1.3	Efficient Building Envelope	0.5	•	
1.4	Efficient Building Envelope	1.0	0	
1.5	Efficient Building Envelope	2.0	0	
1.6	Efficient Building Envelope	3.0	0	
1.7	Efficient Building Envelope	0.5	0	
2.1	Air Leakage Control and Efficient Ventilation	0.5	0	
2.2	Air Leakage Control and Efficient Ventilation	1.0	0	
2.3	Air Leakage Control and Efficient Ventilation	1.5	0	
2.4	Air Leakage Control and Efficient Ventilation	2.0	0	
3.1ª	High Efficiency HVAC	1.0	0	
3.2	High Efficiency HVAC	1.0	0	
3.3ª	High Efficiency HVAC	1.5	0	
3.4	High Efficiency HVAC	1.5	0	
3.5	High Efficiency HVAC	1.5	•	
3.6 <sup>a</sup>	High Efficiency HVAC		0	
4.1	High Efficiency HVAC Distribution System	0.5	0	
4.2	High Efficiency HVAC Distribution System	1.0	•	

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

Summary of Table R406.2 (cont.)								
Energy Options	Energy Credit Option Descriptions (cont.)	energy op	elect ONE otion from tegory d	User Notes				
5.1 <sup>d</sup>	Efficient Water Heating	0.5						
5.2	Efficient Water Heating	0.5	0					
5.3	Efficient Water Heating	1.0	0					
5.4	Efficient Water Heating	1.5	0					
5.5	Efficient Water Heating	2.0	•					
5.6	Efficient Water Heating	2.5	0					
6.1 <sup>e</sup>	Renewable Electric Energy (3 credits max)	1.0						
7.1	Appliance Package	0.5						
	Total Credits		6.0	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.
- 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.
- f. Use the single radiobutton in the upper right of the second column to deselect radiobuttons in that group.

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