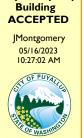
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THE APPROVED CONSTRUCTION PLANS, DOCUMENTS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

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

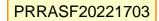
### 2018 WSEC WORKSHEET - CLIMATE ZONE 4, 5&6

DATE: 3-1-22

PROJECT#: PHS21.189 PLAN: Nirider Residence

**SITE ADDRESS:** 1404 Shaw Rd Puyallup, WA 98372







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

Single Family - New & Additions (effective February 1, 2021)

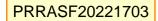
Version 1.0

#### 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						
Kramer Nirider	Pacific Home Source						
1404 Shaw Rd, Puyallup, WA 98372	253.312.5523						

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.

Pro Fen	vide all information from estration Requirements l	the following by Component	tables as building permit dr , Table R406.2 - Fuel Norma	awings: Table Ralization Credits	402.1 - Insulation and and 406.3 - Energy Credits
Au	thorized Representative	Orlie (	noul	Date	03/01/2022
		All	Climate Zones (Table R402.1	1)	
			R-Value <sup>a</sup>		U-Factor <sup>a</sup>
	estration U-Factor b		n/a		0.30
Sky	light U-Factor <sup>b</sup>		n/a		0.50
Gla	zed Fenestration SHGC b,e		n/a		n/a
	ling e		49		0.026
Wo	ood Frame Wall <sup>g,h</sup>		21 int		0.056
Flo	or		30		0.029
	ow Grade Wall c,h		10/15/21 int + TB		0.042
Slal	o <sup>d,f</sup> R-Value & Depth		10, 2 ft		n/a
a b	than the label or design t Table A101.4 shall not be The fenestration <i>U</i> -factor "10/15/21 +5TB" means the interior of the wall, o the interior of the basem the interior of the basem means R-5 thermal break	hickness of the less than the far column exclude R-10 continuous r R-21 cavity insent wall. "10/1s ent wall plus R-10 between floor	s insulation on the exterior of sulation plus a thermal break 5/21 +5TB" shall be permitte 5 continuous insulation on the slab and basement wall.	R-value of the ins of the wall, or R-1 s between the sla ed to be met with the interior or ext	sulation from Appendix  5 continuous insulation on  1b and the basement wall at  R-13 cavity insulation on  erior of the wall. "5TB"
d	R-10 continuous insulatio	n is required ur	nder heated slab on grade flo	ors. See Section	R402.2.9.1.
е	extends over the top plat	e of the exterio	s, the insulation may be redu or wall.		
f	slab insulation when app	lied to existing s	er an existing slab is deemed slabs complying with Section iers protecting foam plastics.	R503.1.1. If foar	to the required perimeter n plastic is used, it shall
g		ped in compliar	nce with Standard ICC 400, lo		et the requirements for
h	Int. (intermediate framing framing 16 inches on centinsulation.	g) denotes fram ter, 78% of the	ning and insulation as describ wall cavity insulated and hea	ed in Section A1 aders insulated w	03.2.2 including standard vith a minimum of R-10





## 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.

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 T	able R406.2		
Heating Options	Fuel Normalization Descriptions		select ONE g 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	0.5		
5	All other heating systems	-1.0		
Energy Options	Energy Credit Option Descriptions	energy option	select ONE on from each gory <sup>d</sup>	
1.1	Efficient Building Envelope	0.5		
1.2	Efficient Building Envelope	1.0		
1.3	Efficient Building Envelope	0.5	•	
1.4	Efficient Building Envelope	1.0		L.
1.5	Efficient Building Envelope	2.0		
1.6	Efficient Building Envelope	3.0		
1.7	Efficient Building Envelope	0.5		
2.1	Air Leakage Control and Efficient Ventilation	0.5		
2.2	Air Leakage Control and Efficient Ventilation	1.0	•	
2.3	Air Leakage Control and Efficient Ventilation	1.5		
2.4	Air Leakage Control and Efficient Ventilation	2.0		
3.1ª	High Efficiency HVAC	1.0		
3.2	High Efficiency HVAC	1.0		
3.3ª	High Efficiency HVAC	1.5		
3.4	High Efficiency HVAC	1.5		
3.5	High Efficiency HVAC	1.5	•	
3.6ª	High Efficiency HVAC	2.0		Antonia makantu mata para para mata mata mata mata mata mata mata m
4.1	High Efficiency HVAC Distribution System	0.5		
4.2	High Efficiency HVAC Distribution System	1 1.0	a de	
			lumi .	

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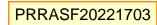


# 2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021)

,	Summary of Table	R406.2 (co	nt.)		
Energy Options	Energy Credit Option Descriptions (cont.)	energy or	select ONE otion from tegory d	User N	lotes
5.1 <sup>d</sup>	Efficient Water Heating	0.5	Ó		
5.2	Efficient Water Heating	0.5			
5.3	Efficient Water Heating	1.0			
5.4	Efficient Water Heating	1.5			
5.5	Efficient Water Heating	2.0	•		
5.6	Efficient Water Heating	2.5			
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.
- 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 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.



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

#### Window, Skylight and Door Schedule

Project Information	Contact Information
Kramer Nirider	Pacific Home Source LLC
1404 Shaw Rd	253.312.5523
Puvallup, WA 98372	gabe@pacifichomesource.com

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

#### Vertical Fenestration (Windows and doors)

Component				Widt	h	Heig	ht			
Description	Ref.	U-factor	Qt.	Feet	Inch	Feet	Inch		Area	UA
Entry Door		0.28	1	6	0	8	0		48.0	13.44
Garage Door		0.28	1	3	0	6	8		20.0	5.60
Workshop Door		0.28	1	3	0	6	8		20.0	5.60
Kitchen Door		0.28	1	3	0	8	0		24.0	6.72
Dining Windows		0.28	3	3	6	4	6		47.3	13.23
Dining SGD		0.28	1	12	0	8	0		96.0	26.88
Living Windows		0.28	2	2	0	5	0		20.0	5.60
Living Windows		0.28	1	4	0	5	0		20.0	5.60
Master Bath Window		0.28	1	3	0	5	0		15.0	4.20
Master Bdrm Windows		0.28	3	3	0	5	0		45.0	12.60
Garage Door		0.28	1	3	0	6	8		20.0	5.60
Office Windows		0.28	3	3	6	6	0		63.0	17.64
Stair Window		0.28	1	3	0	7	0		21.0	5.88
Loft Window		0.28	1	6	0	3	0		18.0	5.04
Living Windows		0.28	2	3	0	5	0		30.0	8.40
Living Windows		0.28	1	5	0	3	0		15.0	4.20
Living Windows		0.28	2	6	0	4	0	1	48.0	13.44
Bath Window		0.28	1	4	0	4	0		16.0	4.48
Exercise Room Door		0.28	1	3	0	6	8		20.0	5.60
Exercise Room Windows		0.28	2	3	0	5	0		30.0	8.40
Bath Window		0.28	1	4	0	2	0		8.0	2.24
Bedroom Window		0.28	1	6	0	4	0		24.0	6.72
Bedroom Window		0.28	3	3	6	3	6	•	36.8	10.29
								1	0.0	0.00
									0.0	0.00
									0.0	0.00
									0.0	0.00
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									0.0	0.00
									0.0	0.00
		Sum of Ve	ertical Fene	estra	ation Area	a and	UA		705.0	197.40
	Vertical	Fenestra	tion Area V	Veig	hted U =	UA/Ai	rea			0.28
Overhead Glazing (Skylights)										
Component					Width	Heigl	ht			
Description	Ref.	U-factor		Qt.	Feet Inch	Feet	Inch		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
									0.0	0.00
	Sum of Overhead Glazing Area and UA Overhead Glazing Area Weighted U = UA/Area									0.00
	Over	ileau Glaz	iliy Area v	veig	nieu U =	UA/AI	Ed		L	0.00

705.0 197.40

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

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| City of Pupullup Development & Pountiting Service ISSUED | Planning |

#### 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.

