Project Infor	· · · · · · · · · · · · · · · · · · ·	mpliance for All Climate	Zones in Was Contact In	
Project inion	mauon		Contact III	iormation
		ments of the Prescriptive I		
		Idition, based on the size		
number of	additional credits are	checked as chosen by the	e permit applicar	ıt.
Authorized	Panragantativa			Data
Aumonzea	Representative			Date
	All (Climate Zones		
		R-Value ^a	U-Factor ^a	
Fenestratio	n U-Factor ^b	n/a	0.30	
Skylight U-	Factor	n/a	0.50	7
	nestration SHGC ^{b,e}	n/a	n/a	_
Ceiling ^k		49 ^j	0.026	-
Wood Fran	oo Mali ^{g,m,n}	21 int	0.056	_
Mass Wall		21/21 ⁿ	0.056	_
	K-value	30 ⁹		_
Floor			0.029	_,
Below Grad		10/15/21 int + TB	0.042	_
	lue & Depth	10, 2 ft	n/a	
*Table R40	2.1.1 and Table R402.1	1.3 Footnotes included on P	age 2.	
Each dwel	ling unit in a residenti	al building shall comply w	ith sufficient opt	ions from Table R406.2 so as to achieve
	ng minimum number		•	
1 Smal	l Dwelling Unit: 1.5 cr	odite		
	_		tioned floor area v	with less than 300 square feet of fenestration
	•	•		e feet of heated floor area but less than 1500
	square feet.	0 0 0	•	
2. Medi	um Dwelling Unit: 3.5	credits		
	All dwelling units that a	are not included in #1 or #3.	Exception: Dwel	ling units serving R-2 occupancies shall
	require 2.5 credits.			
☐3. Large	Dwelling Unit: 4.5 cr	edits		
_ •	•	ing 5000 square feet of cond	ditioned floor area	
□4 Addi	tions less than 500 sq	•		
		land tooti to droute		
	06.2 Summary			
Option	Description	Jone 1e	Credit(s)	
1a	Efficient Building Enve		0.5	4
1b	Efficient Building Enve	•	1.0	1
1c 1d	Efficient Building Enve Efficient Building Enve		2.0 0.5	1
2a		nd Efficient Ventilation 2a	0.5	4
2b		nd Efficient Ventilation 2b	1.0	1
2c		nd Efficient Ventilation 2c	1.5	1
3a	High Efficiency HVAC		1.0	1
3b	High Efficiency HVAC		1.0	1
3c	High Efficiency HVAC		1.5	1
3d	High Efficiency HVAC		1.0	1 7
4	High Efficiency HVAC		1.0	1
5a	Efficient Water Heating		0.5	1
5b	Efficient Water Heating	_	1.0	1
5c	Efficient Water Heating	g 5c	1.5	7 🗆 🗀

Total Credits 0.00

0.5

0.5

*1200 kwh

0.0

Efficient Water Heating 5d

Renewable Electric Energy

5d

6

^{*}Please refer to Table R406.2 for complete option descriptions

Table R402.1.1 Footnotes

For SI: 1 foot .= 304.8 mm, ci .= continuous insulation, int .= intermediate framing.

- ^a R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the compressed R-value of the insulation from Appendix Table A101.4 shall not be less than the R-value specified in the table.
- ^b The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.
- c "10/15/21.+TB" means R-10 continuous insulation on the exterior of the wall, or R-15 on the 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 the interior of the basement wall. "10/15/21.+TB" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the wall. "10/13" means R-10 continuous insulation on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall. "TB" means thermal break between floor slab and basement wall.
- ^d R-10 continuous insulation is required under heated slab on grade floors. See R402.2.9.1.
- ^e There are no SHGC requirements in the Marine Zone.
- ^f Reserved.
- ^g Reserved.
- ^h Reserved.
- ⁱ The second R-value applies when more than half the insulation is on the interior of the mass wall.
- ^j Reserved.
- ^k For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38.
- ¹Reserved.
- m Int. (intermediate framing) denotes standard framing 16 inches on center with headers insulated with a minimum of R-10 insulation.

Table R402.1.3 Footnote

^a Nonfenestration U-factors shall be obtained from measurement, calculation or an approved source or as specified in Section R402.1.3.

OPTION	DESCRIPTION	CREDIT(S)	Estimated Cost
1a	EFFICIENT BUILDING ENVELOPE 1a: Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.28 Floor R-38	0.5	
	Slab on grade R-10 perimeter and under entire slab Below grade slab R-10 perimeter and under entire slab or Compliance based on Section R402.1.4: Reduce the Total UA by 5%.		
1b	EFFICIENT BUILDING ENVELOPE 1b: Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.25 Wall R-21 plus R-4 Floor R-38 Basement wall R-21 int plus R-5 ci	1.0	
	Slab on grade R-10 perimeter and under entire slab Below grade slab R-10 perimeter and under entire slab or Compliance based on Section R402.1.4: Reduce the Total UA by 15%.		
1c	EFFICIENT BUILDING ENVELOPE 1c: Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.22 Ceiling and single-rafter or joist-vaulted R-49 advanced Wood frame wall R-21 int plus R-12 ci Floor R-38 Basement wall R-21 int plus R-12 ci Slab on grade R-10 perimeter and under entire slab Below grade slab R-10 perimeter and under entire slab or	2.0	
	Compliance based on Section R402.1.4: Reduce the Total UA by 30%.		
1d ^a	EFFICIENT BUILDING ENVELOPE 1d: Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.24	0.5	
2a	AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION 2a: Compliance based on R402.4.1.2: Reduce the tested air leakage to 3.0 air changes per hour maximum and	0.5	
	All whole house ventilation requirements as determined by Section M1507.3 of the <i>International Residential Code</i> shall be met with a high efficiency fan (maximum 0.35 watts/cfm), not interlocked with the furnace fan. Ventilation systems using a furnace including an ECM motor are allowed, provided that they are controlled to operate at low speed in ventilation only mode. To qualify to claim this credit, the building permit drawings shall specify the option		
	being selected and shall specify the maximum tested building air leakage and shall show the qualifying ventilation system.	1.0	
2b	AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION 2b: Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 2.0 air changes per hour maximum and	1.0	
	All whole house ventilation requirements as determined by Section M1507.3 of the <i>International Residential Code</i> shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.70. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the maximum tested building air leakage and shall show the heat recovery ventilation system.		

OPTION	DESCRIPTION	CREDIT(S)	Estimated Cost
2c	AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION 2c: Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 1.5 air changes per hour maximum	1.5	
	and All whole house ventilation requirements as determined by Section M1507.3 of the		
	International Residential Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.85.		
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the maximum tested building air leakage and shall show the heat recovery ventilation system.		
3a ^b	HIGH EFFICIENCY HVAC EQUIPMENT 3a: Gas, propane or oil-fired furnace with minimum AFUE of 94%, or Gas, propane or oiled-fired boiler with minimum AFUE of 92%	1.0	
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency.		
3b ^b	HIGH EFFICIENCY HVAC EQUIPMENT 3b: Air-source heat pump with minimum HSPF of 9.0	1.0	
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency.		
3c ^b	HIGH EFFICIENCY HVAC EQUIPMENT 3c: Closed-loop ground source heat pump; with a minimum COP of 3.3	1.5	
	Open loop water source heat pump with a maximum pumping hydraulic head of 150 feet and minimum COP of 3.6		
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency.		
3d ^b	HIGH EFFICIENCY HVAC EQUIPMENT 3d: Ductless Split System Heat Pumps, Zonal Control: In homes where the primary space heating system is zonal electric heating, a ductless heat pump system shall be installed and provide heating to the largest zone of the housing unit.	1.0	
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency.		
4	HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM:	1.0	
	All heating and cooling system components installed inside the conditioned space. This includes all equipment and distribution system components such as forced air ducts, hydronic piping, hydronic floor heating loop, convectors and radiators. All combustion equipment shall be direct vent or sealed combustion.		
	For forced air ducts: A maximum of 10 linear feet of return ducts and 5 linear feet of supply ducts may be located outside the conditioned space. All metallic ducts located outside the conditioned space must have both transverse and longitudinal joints sealed with mastic. If flex ducts are used, they cannot contain splices. Flex duct connections must be made with nylon straps and installed using a plastic strapping tensioning tool. Ducts located outside the conditioned space must be insulated to a minimum of R-8.		
	Locating system components in conditioned crawl spaces is not permitted under this option.		
	Electric resistance heat and ductless heat pumps are not permitted under this option.		
	Direct combustion heating equipment with AFUE less than 80% is not permitted under this option.		
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and shall show the location of the heating and cooling equipment and all the ductwork.		

OPTION	DESCRIPTION	CREDIT(S)	Estimated Cost
5a	EFFICIENT WATER HEATING 5a: All showerhead and kitchen sink faucets installed in the house shall be rated at 1.75	0.5	
	GPM or less. All other lavatory faucets shall be rated at 1.0 GPM or less.		
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the maximum flow rates for all showerheads, kitchen sink faucets, and other lavatory faucets.		
5b	EFFICIENT WATER HEATING 5b: Water heating system shall include one of the following: Gas, propane or oil water heater with a minimum EF of 0.74	1.0	
	or		
	Water heater heated by ground source heat pump meeting the requirements of Option 3c.		
	For R-2 occupancy, a central heat pump water heater with an EF greater than 2.0 that would supply DHW to all the units through a central water loop insulated with R-8 minimum pipe insulation.		
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment efficiency.		
5c	EFFICIENT WATER HEATING 5c: Water heating system shall include one of the following: Gas, propane or oil water heater with a minimum EF of 0.91 or	1.5	
	Solar water heating supplementing a minimum standard water heater. Solar water heating will provide a rated minimum savings of 85 therms or 2000 kWh based on the Solar Rating and Certification Corporation (SRCC) Annual Performance of OG-300 Certified Solar Water Heating Systems		
	or Electric heat pump water heater with a minimum EF of 2.0 and meeting the standards of NEEA's Northern Climate Specifications for Heat Pump Water Heaters		
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment efficiency and, for solar water heating systems, the calculation of the minimum energy savings.		
5d	EFFICIENT WATER HEATING 5d:	0.5	
	A drain water heat recovery unit(s) shall be installed, which captures waste water heat from all the showers, and has a minimum efficiency of 40% if installed for equal flow or a minimum efficiency of 52% if installed for unequal flow. Such units shall be rated in accordance CSA B55.1 and be so labeled.		
	To qualify to claim this credit, the building permit drawings shall include a plumbing diagram that specified the drain water heat recovery units and the plumbing layout needed to install it and labels or other documentation shall be provided that demonstrates that the unit complies with the standard.		

OPTION	DESCRIPTION	CREDIT(S)	Estimated Cost
6	RENEWABLE ELECTRIC ENERGY:	0.5	
	For each 1200 kWh of electrical generation per each housing unit provided annually		
	by on-site wind or solar equipment a 0.5 credit shall be allowed, up to 3 credits.		
	Generation shall be calculated as follows:		
	For solar electric systems, the design shall be demonstrated to meet this requirement		
	using the National Renewable Energy Laboratory calculator PVWATTs.		
	Documentation noting solar access shall be included on the plans.		
	For wind generation projects designs shall document annual power generation based		
	on the following factors:		
	The wind turbine power curve; average annual wind speed at the site; frequency		
	distribution of the wind speed at the site and height of the tower.		
	To qualify to claim this credit, the building permit drawings shall specify the option		
	being selected and shall show the photovoltaic or wind turbine equipment type,		
	provide documentation of solar and wind access, and include a calculation of the		
	minimum annual energy power production.		

Window, Skylight and Door Schedule Project Information Contact Information Width Height U-factor Qt. Feet Inch Feet Inch UA Ref. Area 0.00 Exempt Swinging Door (24 sq. ft. max.) 0.0 Exempt Glazed Fenestration (15 sq. ft. max.) 0.0 0.00 **Vertical Fenestration (Windows and doors)** Component Width Height Qt. Feet Inch Feet Inch Description U-factor Ref. 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 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.00 0.0 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 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.00 0.0 0.0 0.00 0.0 0.00 0.00 0.0 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00

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		Sum of Ve	ertical Fenes	tration Are	a and UA	0.0	0.00
	Vertical	l Fenestrat	tion Area We	ighted U =	: UA/Area		0.00
Overhead Glazing (Skylights) Component				Width	Height		
Description	Ref.	U-factor	Qt	. Feet ""	h 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
	<u> </u>						
			Overhead G			0.0	0.00

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

0.0

Simple Heating System Size: Washington State

This heating system sizing calculator is based on the Prescriptive Requirements of the 2015 Washington State Energy Code (WSEC) and ACCA Manuals J and S. This calculator will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads.

The glazing (window) and door portion of this calculator assumes the installed glazing and door products have an area weighted average U-factor of 0.30. The incorporated insulation requirements are the minimum prescriptive amounts specified by the 2015 WSEC.

Please fill out all of 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 call the WSU Energy Extension Program at (360) 956-2042 for assistance.

Project Information	Contact Information
Heating Cristons Times	O Heat Pump
Heating System Type:	- '
To see detailed instructions for each section, place your cursor on the w	word "Instructions".
Design Temperature Instructions	Docign Tomporature Difference (AT)
Select closest city	Design Temperature Difference (Δ T) $\Delta T = Indoor (70 degrees) - Outdoor Design Temp$
Area of Building	
Conditioned Floor Area	
Instructions Conditioned Floor Area (sq ft)	
Average Ceiling Height	Conditioned Volume
Instructions Average Ceiling Height (ft)	Contained voiding
Glazing and Doors	U-Factor X Area = UA
Instructions	0.30
Skylights Instructions	U-Factor X Area = UA
	0.50
Insulation	
Attic	U-Factor X Area = UA
Select R-Value	No selection
Single Rafter or Joist Vaulted Ceilings	U-Factor X <u>Area</u> UA
Instructions Select R-Value	No selection
Above Grade Walls (see Figure 1)	U-Factor X Area UA
Instructions Select R-Value	No selection
Floors	U-Factor X Area UA
Select R-Value	No selection
Below Grade Walls (see Figure 1)	U-Factor X Area UA
Instructions Select R-value	No selection
Slab Below Grade (see Figure 1)	F Frater V Laureth IIA
Instructions	F-Factor X Length UA No selection
Select conditioning	140 SCICCION
Slab on Grade (see Figure 1)	F-Factor X Length UA
Instructions Select R-Value	No selection
Location of Ducto	
Location of Ducts Instructions	Duct Leakage Coefficient
Unconditioned Space	1.10
	Sum of UA
[-	Envelope Heat Load Btu / Hour
Figure 1.	Sum of UA X ∆T Air Leakage Heat Load Btu / Hour
	Volume X 0.6 X ΔT X .018
Above Grade	Building Design Heat Load Btu / Hour
Below Grade	Air Leakage + Envelope Heat Loss Building and Duct Heat Load Btu / Hour
	Ducts in unconditioned space: Sum of Building Heat Loss X 1.10
	Ducts in conditioned space: Sum of Building Heat Loss X 1
	Maximum Heat Equipment Output Building and Duct Heat Loss X 1.40 for Forced Air Furnace
	Building and Duct Heat Loss X 1.25 for Heat Pump

					Missing Missing Missing Missing	g Exterion g Vertical g Ceilings g Walls (A	Glazing li Informat Above Gra	formation nformation	nation
Conditioned	Floor Area								
Component	Performance, R occupancies			Code Tar Area	get Val	ues		Proposed Area	d Design UA
	Doo	ors U = 0.	300	0	0			0)
	Overhead Glazi			0	0			C	
	Vertical Glazin	•		0	0			C	
	Flat/Vaulted Ceilin			0	0			C	
	Wall (above grad			0	0			C	
	· · · · · · · · · · · · · · · · · · ·	ors U = 0.		0	0			C	
	Slab on Gra			0	0			0)
	Below Grade W	all U = 0.	042	0	0			0)
	Below Grade Sl	ab F = 0.	570	0	0			C)
			Targe	et UA Total	0	_		d UA Total	
the home me	ed UA ≤ the Target UA, and the F ets the 2015 WSEC.			able 406.2	06.2 are			able 406.2	2 0.
the home me	ed UA ≤ the Target UA, and the F ets the 2015 WSEC. ors			om Table 40	06.2 are	ક ≥ those ા	Tequired in	able 406.2	2 0.
the home me Exterior Doo Plan	ed UA ≤ the Target UA, and the F ets the 2015 WSEC. ors Component		Credits fr	Com Table 40		e ≥ those r Width	Tequired in	able 406.2 Section R4	0. 406.2, then
the home me	ed UA ≤ the Target UA, and the F ets the 2015 WSEC. ors	Proposed (Credits fr Ref.	om Table 40 Door U	06.2 are	ક ≥ those ા	Tequired in	Section R4	0. 406.2, then UA
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the home me Exterior Doo Plan	ed UA ≤ the Target UA, and the F ets the 2015 WSEC. ors Component	Proposed (Credits fr Ref. 0	Door U 0.00 0.00		e ≥ those r Width	Tequired in	Area	UA
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the home me Exterior Doo Plan	ed UA ≤ the Target UA, and the F ets the 2015 WSEC. ors Component	Proposed (Ref. 0 0 0	Door U 0.00 0.00 0.00 0.00		e ≥ those r Width	Tequired in	Area	UA
the home me Exterior Doo Plan	ed UA ≤ the Target UA, and the F ets the 2015 WSEC. ors Component	Proposed (Ref. 0 0 0 0	Door U 0.00 0.00 0.00 0.00 0.00		e ≥ those r Width	Tequired in	Area	UA
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Exterior Doc Plan ID	ed UA ≤ the Target UA, and the F ets the 2015 WSEC. ors Component Description	Proposed (Ref. 0 0 0 0 0 0 0 0 0	Door U 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Qt.	e ≥ those r Width	equired in Height Feet Inch	Area O O O O O O O O O O O O O	UA
Exterior Doc Plan ID Overhead G	ed UA ≤ the Target UA, and the Fets the 2015 WSEC. Component Description	Proposed (Ref. 0 0 0 0 0 0 0 0 0	Door U 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Qt.	Width Feet Inch	required in Height Feet Inch	Area O O O O O O O O O O O O O O O O O O O	UA
Exterior Doc Plan ID Overhead Gi	ed UA ≤ the Target UA, and the F ets the 2015 WSEC. ors Component Description lazing: Component	Proposed (Ref. 0 0 0 0 0 0 0 0 0	Door U 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Qt.	Width Feet Inch Inch In of Area a	required in Height Feet Inch and UA Height	Area 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UA UA
Exterior Doc Plan ID Overhead G	ed UA ≤ the Target UA, and the Fets the 2015 WSEC. Component Description	Proposed (Ref. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Door U 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Glazing U	Qt.	Width Feet Inch	required in Height Feet Inch Inch Inch Inch Inch Inch Inch Inch	Area Area Area Area Area	UA UA
Exterior Doc Plan ID Overhead Gi	ed UA ≤ the Target UA, and the F ets the 2015 WSEC. ors Component Description lazing: Component	Proposed (Ref. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Door U 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Glazing U 0.00	Qt.	Width Feet Inch Inch In of Area a	required in Height Feet Inch and UA Height	Area Area Area Area Area Area	UA UA UA UA
Exterior Doc Plan ID Overhead Gi	ed UA ≤ the Target UA, and the F ets the 2015 WSEC. ors Component Description lazing: Component	Proposed (Ref. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Door U 0.00 0.00 0.00 0.00 0.00 0.00 Glazing U 0.00 0.00	Qt.	Width Feet Inch Inch In of Area a	required in Height Feet Inch and UA Height	Area 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UA UA UA UA
Exterior Doc Plan ID Overhead Gi	ed UA ≤ the Target UA, and the F ets the 2015 WSEC. ors Component Description lazing: Component	Proposed (Ref. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Door U 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Qt.	Width Feet Inch Inch In of Area a	required in Height Feet Inch and UA Height	Area 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UA UA UA
Exterior Doc Plan ID Overhead Gi	ed UA ≤ the Target UA, and the F ets the 2015 WSEC. ors Component Description lazing: Component	Proposed (Ref. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Door U 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Qt.	Width Feet Inch Inch In of Area a	required in Height Feet Inch and UA Height	Area 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UA UA UA
Exterior Doc Plan ID Overhead Gi	ed UA ≤ the Target UA, and the F ets the 2015 WSEC. ors Component Description lazing: Component	Proposed (Ref. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Door U 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Qt.	Width Feet Inch Inch In of Area a	required in Height Feet Inch and UA Height	Area 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UA UA UA

Plan	Component			Glazing		Width		Hei	gnt Inch		
ID	Description		Ref.	U	Qt.	Feet	IIICII	Feet	IIICII	Area	UA
		_	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						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						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						0	
		-	0	0.00						0	
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		•	0	0.00						0	
		•	0	0.00						0	
		•	0	0.00						0	
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		~	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						0	
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		•	0	0.00						0	
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		_	0	0.00						0	
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		V	0	0.00						0	
		*	0	0.00		+				0	
		~	0	0.00					H	0	
		~	0	0.00						0	-
		~	0	0.00						0	
		~	0	0.00						0	
		~	0	0.00		1				0	

Sum of Area and UA Glazing Area Weighted U

0

	Component			Attic					
ID	Description		Ref.	U				Area	UA
		~	0	0.000					0
		•	0	0.000					0
		•	0	0.000					0
		~	0	0.000					0
					Sum	of Area a	nd UA	0	0
Walls (Above									
Plan	Component			Wall					
ID	Description		Ref.	U				Net Area	UA
		_	0	0.000					0
		~	0	0.000					
		Ť	0	0.000					0
			U	0.000					U
					Sum	of Area a	nd UA	0	0
	rawl or exterior)								
Plan	Component			Floor					
ID	Description		Ref.	U				Area	UA
		_	0	0.000					0
		~	0	0.000					0
		Ť	0	0.000					0
			0	0.000					0
					Sum	of Area a	nd UA	0	0
Clab an Crad	a //aca than 2 fact halans made								
	e (less than 2 feet below grade	!)		Slab					
Dlan	Component							Clah	
	Component		Dof					Slab	110
Plan ID	Component Description	_	Ref.	F				Slab Length	UA n
		v	0	F 0.000					0
			0	F 0.000 0.000					0
		•	0	F 0.000			,		0 0 0
		•	0 0 0	F 0.000 0.000 0.000					0 0 0
Plan ID		•	0 0 0	F 0.000 0.000 0.000	Sum	of Area a	nd UA		0 0 0
ID .		•	0 0 0	F 0.000 0.000 0.000	Sum	of Area a	nd UA	Length	0 0 0
ID Below Grade	Description	•	0 0 0	F 0.000 0.000 0.000	Sum	of Area an Wall	nd UA	Length	0 0 0
ID Below Grade	Description Walls and Slabs	•	0 0 0	F 0.000 0.000 0.000 0.000				Length 0	0 0 0 0
Below Grade	Description Walls and Slabs Component	•	0 0 0 0	F 0.000 0.000 0.000 0.000 Wall U	Wall	Wall	Slab F 0.000	Length 0	0 0 0 0 0 0 Slab UA
Below Grade	Description Walls and Slabs Component	•	0 0 0 0	Wall U 0.000 0.000 0.000	Wall	Wall UA 0.0 0.0	Slab F 0.000 0.000	Length 0	0 0 0 0 0 0 Slab UA
Below Grade	Description Walls and Slabs Component	V V	0 0 0 0	Wall U 0.000 0.000 0.000 0.000 0.000	Wall	Wall UA 0.0 0.0 0.0	Slab F 0.000 0.000	Length 0	0 0 0 0 0 Slab UA 0
Below Grade	Description Walls and Slabs Component	V V	0 0 0 0	Wall U 0.000 0.000 0.000	Wall	Wall UA 0.0 0.0	Slab F 0.000 0.000	Length 0	0 0 0 0
Below Grade	Description Walls and Slabs Component Description	V V V V V V V V V V V V V V V V V V V	0 0 0 0	Wall U 0.000 0.000 0.000 0.000 0.000	Wall	Wall UA 0.0 0.0 0.0	Slab F 0.000 0.000	Length 0	0 0 0 0 0 0 Slab UA 0

Table R406.2 Summary

Opt.	Description	Credit(s)		
1a	Efficient Building Envelope 1a	0.5		
1b	Efficient Building Envelope 1b	1.0		
1c	Efficient Building Envelope 1c	2.0		
1d	Efficient Building Envelope 1d	0.5		
2a	Air Leakage Control and Efficient Ventilation 2a	0.5		
2b	Air Leakage Control and Efficient Ventilation 2b	1.0		
2c	Air Leakage Control and Efficient Ventilation 2c	1.5		
3a	High Efficiency HVAC 3a	1.0		
3b	High Efficiency HVAC 3b	1.0		
3c	High Efficiency HVAC 3c	1.5		
3d	High Efficiency HVAC 3d	1.0		
4	High Efficiency HVAC Distribution System	1.0		
5a	Efficient Water Heating 5a	0.5		
5b	Efficient Water Heating 5b	1.0		
5c	Efficient Water Heating 5c	1.5		
5d	Efficient Water heating 5d	0.5		
6	Renewable Electric Energy	0.5	kWh	
Total	Credits	·		0.0

^{*}Please refer to Table R406.2 for complete option descriptions



Dormit #



Residential Building Air Leakage Test (Blower Door Test) Results

remm #			
House address or lot number:			
City:	Zip:		
Cond. Floor Area (ft²):	Age of house:		_
Source (circle one): Plans	Estimated	Measured	
Results shall be reported as Air Changes per H	ascal pressure difference		ulated as follows:
Blower Door Test Result: AC			
Ring (circle one if applicable): Open	Α	В С	
Blower Door Fan Location:	Weather Condit	ions:	
I certify that these blower door results are	accurate and determine	ed using standard	industry protocol.
Company Name:	Technician: _		
Technician Signature:	_ Date: Ph	none Number:	

2015 Washington State Energy Code reference:

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the *code official*, testing shall be conducted by an *approved* third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the *code official*. Testing shall be performed at any time after creation of all penetrations of the *building thermal envelope*. Once visual inspection has confirmed sealing (see Table R402.4.1.1), operable windows and doors manufactured by *small business* shall be permitted to be sealed off at the frame prior to the test.

Energy Code S u p p o r t



During testing:

- 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures;
- 2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures;
- 3. Interior doors, if installed at the time of the test, shall be open, access hatches to conditioned crawl spaces and conditioned attics shall be open;
- 4. Exterior openings for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
- 5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and
- 6. Supply and return registers, if installed at the time of the test, shall be fully open.