	ksheet 2015 Washington St	٠,	nation	
		Contact Inform		cilla Wenzel
9820 SE 35th PLACE		Me		
Alterations (remo	odels) do not need to obtain	energy credits from	m Table R4	406.2
	·			
Will the wall cavi	ties be exposed? $_{racksqr}$ $_{f Ye}$	es 🗆 No		
If yes:	2 X 4 wall studs re	quire R-15 insulation		
Will the roof/ceili	ng framing cavities or attic	be exposed?	✓ Yes	□ No
If yes:	reer Island, WA. 98040 Priscilla@mediciarchitects.com re Washington State Energy Code requirements for alterations are located in Chapter 5 terations (remodels) do not need to obtain energy credits from Table R406.2 Iditions must meet the requirements for new construction. This includes nonconditioned space being ered to become conditioned space. If the wall cavities be exposed? Yes No If yes: Exposed wall cavities must be insulated - 2 X 4 wall studs require R-15 insulation 2 X 6 wall studs require R-21 insulation If the roof/ceiling framing cavities or attic be exposed? Yes No			
	Flat ceilings:			-
Will the floor fran	ning cavities be exposed?	✓ Yes		□ No
If yes:	Exposed floor cavities must	be insulated to R-30)	
(includes t	ooth window or door and frames)		nhted avera	
11 yes.	New Windows and doors ma	ot have an area weig	giilou avoic	age 0-140tor or 20.00
Will the heating of	or cooling system be replace	ed? □ Yes		☑ No
If yes:			quirements	and
Will the hot water	r system be altered?	□ Yes	☑ No	
If yes:	New water heating	gequipment must me	eet current	code requirements
Are more than 50	% of the light fixtures being	g changed?	☐ Yes	⋈ No
If yes:			,	

R503.1.1 Building envelope. Building envelope assemblies that are part of the alteration shall comply with Section R402.1.1 or R402.1.4, Sections R402.2.1 through R402.2.11, R402.3.1, R402.3.2, R402.4.3 and R402.4.4.

Exception: The following alterations need not comply with the requirements for new construction provided the energy use of the building is not increased:

- 1. Storm windows installed over existing fenestration.
- 2. Existing ceiling, wall or floor cavities exposed during construction provided that these cavities are filled with insulation. 2x4 framed walls shall be insulated to a minimum of R-15 and 2x6 framed walls shall be insulated to a minimum of R-21.
- 3. Construction where the existing roof, wall or floor cavity is not exposed.
- 4. Roof recover.
- 5. Roofs without insulation in the cavity and where the sheathing or insulation is exposed during reroofing shall be insulated either above or below the sheathing.
- 6. Surface-applied window film installed on existing single pane fenestration assemblies to reduce solar heat gain provided the code does not require the glazing fenestration to be replaced.

R503.1.1.1 Replacement fenestration. Where some or all of an existing fenestration unit is replaced with a new fenestration product, including sash and glazing, the replacement fenestration unit shall meet the applicable requirements for U-factor and SHGC in Table R402.1.1.

R502.1.1.2 Heating and cooling systems. New heating, cooling and duct systems that are part of the addition shall comply with Sections R403.1, R403.2, R403.3, R403.5 and R403.6.

Exception: The following need not comply with the testing requirements of Section R403.3.3:

- 1. Additions of less than 750 square feet.
- 2. Duct systems that are documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in WSU RS-33.
- 3. Ducts with less than 40 linear feet in unconditioned spaces.
- 4. Existing duct systems constructed, insulated or sealed with asbestos.

R503.1.3 Service hot water systems. New service hot water systems that are part of the alteration shall comply with Section R403.4.

R503.1.4 Lighting. New lighting systems that are part of the alteration shall comply with Section R404.1.

Exception: Alterations that replace less than 50 percent of the luminaires in a space, provided that such alterations do not increase the installed interior lighting power.

R503.2 Change in space conditioning. Any nonconditioned or low-energy space that is altered to become *conditioned space* shall be required to be brought into full compliance with this code.

If the Proposed UA ≤ the Target UA, and the Proposed Credits from Table 406.2 are ≥ those required in Section R406.2, then the home meets the 2015 WSEC. Exterior Doors Plan Component ID Description Ref. U Qt. Feet Inch Feet Inch Area UA Solid wood door Custom 0.28 1 3 6 7 0 25 7 0 0.000 0 0 0	٥,	- · · ·			1						
Component Performance, R occupancies Component Performance, R occupancies Doors U = 0.300 Proposed Design Area UA 25 7 0 verhead Glazing U = 0.500 Flat/Vaulted Ceilings U = 0.300 Flat/Vaulted Ceilings U = 0.030 Flat/Saulted Ceilings U = 0.050 Flat/Sault											
Component Performance, R occupancies	9820	SE 35th Place									
Component Performance, R occupancies											
Component Performance, R occupancies											
Component Performance, R occupancies											
Component Performance, R occupancies											
Component Performance, R occupancies											
Component Performance, R occupancies											
Component Performance, R occupancies											
Component Performance, R occupancies	0	distance d Place Asse	Г	F0:	7						
Area UA	Cond	ditioned Floor Area	L	50	<u>/</u> l						
Area UA											
Area UA											
Doors U = 0.300	Com	ponent Performance, R occup	ancies		Code Ta	rget Va	lues			Proposed	d Design
Overhead Glazing U = 0.500							7				1
Vertical Glazing U = 0.300 66 20			Doors U = 0	.300	25		-			25	
Flat/Vaulted Ceilings U = 0.026		Overhe	ead Glazing U = 0	.500			+				
Wall (above grade) U = 0.056 1.846 92 791 45 667 2 2 55 30 55 30 55 30 55 30 67 2 67 2 55 30 67 2 67 2 55 30 67 2 67 67		Verti	cal Glazing U = 0	.300			+				
Floors U = 0.029		Flat/Vault	ted Ceilings U = 0	.026			+				
Slab on Grade F = 0.540 55 30		Wall (ab	ove grade) U = 0	.056			+				
Below Grade Wall U = 0.042 0 0 0 0 0 0 0 0 0			Floors U = 0	.029			-				
Below Grade Slab F = 0.570											
Target UA Total Target Credits from Table 406.2 are ≥ those required in Section R406.2, then the them the meets the 2015 Walth Target Credits from Table 406.2 are ≥ those required in Section R406.2, then the them the meets the 2015 Walth Target Credits from Table 406.2 are ≥ those required in Section R406.2, then the them the meets the 2015 Walth Target Credits from Table 406.2 are ≥ those required in Section R406.2, then the them the meets the 2015 Walth Target Credits from Table 406.2 are ≥ those required in Section R406.2, then the them the meets the 2015 Walth Target Credits from Table 406.2 are ≥ those required in Section R406.2, then the them the meets the 2015 Walth Target Credits from Table 406.2 are ≥ those required in Section R406.2, then the them the them the meets the 2015 Walth Target Credits from Table 406.2 are ≥ those required in Section R406.2, then the predict of the 10 to 10											
Target Credits from Table 406.2 1.5 Proposed Credits from Table 406.2 1.5		Below	Grade Slab F = 0	.570	0	0	1			0	0
Target Credits from Table 406.2 1.5 Proposed Credits from Table 406.2 1.5				-		470	ī		_		100
Table 406.2				rarge	t UA Total	1/3	1	Dr			
If the Proposed UA ≤ the Target UA, and the Proposed Credits from Table 406.2 are ≥ those required in Section R406.2, then the home meets the 2015 WSEC. Exterior Doors			Target Cred	its from Ta	able 406.2	1.5	i	FI	oposeu		
Plan ID Component ID Description Ref. U Qt. Feet Inch Feet Inch Area UA 5 Solid wood door ▼ Custom 0.28 1 3 6 7 0 25 7 □ □ 0 0.00 □ □ □ 0 <th></th> <th></th> <th>and the Proposed</th> <th>Credits fro</th> <th>om Table 4</th> <th>06.2 are</th> <th>e ≥ tho</th> <th>se re</th> <th>quired i</th> <th>in Section R4</th> <th>06.2, then</th>			and the Proposed	Credits fro	om Table 4	06.2 are	e ≥ tho	se re	quired i	in Section R4	06.2, then
Plan ID Component ID Description Ref. U Qt. Feet Inch Feet Inch Area UA 5 Solid wood door ▼ Custom 0.28 1 3 6 7 0 25 7 □ □ 0 0.00 □ □ □ 0 <th></th>											
D Description Ref. U Qt. Feet Inch Feet Inch Area UA	Exte	rior Doors									
5 Solid wood door ▼ Custom 0.28 1 3 6 7 0 25 7 ▼ 0 0 0.00 <	Plan	Component			Door		Wic			nt	
Velux Tested performance NAFS 2011 Velux Tes	ID	Description		Ref.	U	Qt.	Feet	Inch	Feet Ir	^{nch} Area	UA
V 0 0.000 I 0 <th>5</th> <th>Solid wood door</th> <th>▼</th> <th>Custom</th> <th>0.28</th> <th>1</th> <th>3</th> <th>6</th> <th>7</th> <th>0 25</th> <th></th>	5	Solid wood door	▼	Custom	0.28	1	3	6	7	0 25	
V 0 0.00 I I 0 <td></td> <td>_</td> <td>•</td> <td>0</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td>		_	•	0	0.00					0	
V 0 0.00 0 <td></td> <td></td> <td>▼</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td>			▼	0						0	
Velux Tested performance NAFS 2011 Velux Tested performance NAFS 2011 Vesc 0.43 1 2 0 5 0 0 0 0<		1	•								
▼ 0 0.00 □ 0 0.00 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0 □ 0 0 0			•								
Sum of Area and UA 25 7		4	•								
Overhead Glazing: Plan Component Glazing Width Height Area UA j Velux Tested performance NAFS 2011 ▼ wsec 0.43 1 2 0 5 0 10 4 □ </td <td></td> <td><u> </u></td> <td><u> </u></td> <td>0</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>] 0</td>		<u> </u>	<u> </u>	0	0.00					0] 0
Overhead Glazing: Plan Component Glazing Width Height Area UA j Velux Tested performance NAFS 2011 ▼ wsec 0.43 1 2 0 5 0 10 4 □ </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td>I _</td>						•					I _
Plan Component Glazing Width feet Height feet Area UA j Velux Tested performance NAFS 2011 ▼ wsec 0.43 1 2 0 5 0 10 4 ▼ 0 0.00 □ □ □ □ □ 0	0	shood Clasina.				Sur	n ot Ar	ea ar	na UA	25	
ID Description Ref. U Qt. Feet Inch Feet Inch Area UA j Velux Tested performance NAFS 2011 ▼ wsec 0.43 1 2 0 5 0 10 4 ▼ 0 0.00 □ □ □ 0 0 0 ▼ 0 0.00 □ □ □ 0 0 0 ▼ 0 0.00 □ □ □ 0 0 0 □ 0 0.00 □ □ □ 0 0 0					Clasina		۱۸/:-	141-	ما ما ما		
j Velux Tested performance NAFS 2011 ▼ wsec 0.43 1 2 0 5 0 10 4 ▼ 0 0.00 0.00 0 0 0 0 0 0 0 0 ▼ 0 0.00 0 <td< td=""><td></td><td></td><td></td><td>D-f</td><td></td><td>04</td><td></td><td></td><td></td><td></td><td>110</td></td<>				D-f		04					110
Velax rested perioritatic NATS 2011	ו	∃ I								•	
▼ 0 0.00 0 0 0 ▼ 0 0.00 0 0 0 0 ▼ 0 0.00 0 0 0 0	J	velax resteu periormance ivars 2011					2			10	
▼ 0 0.00 0 0 0 0 ▼ 0 0.00 0 0 0 0			Ť								
0 0.00 0 0		-	·								
			_								
Sum of Area and IIA 10 4		4	F. <u>-</u>	J	0.00		1			, 0	. 0
						Sur	n of Δr	ar	ad IIIA	10	1

Plan	Component			Glazing		Width		Heig			
ID	Description		Ref.	U	Qt.	Feet		Feet	Inch	Area	UA
١	2 gl Vinyl, low e / TB	▼	wsec	0.28	1	4	0	4	0	16	
3	2 gl Vinyl, low e / TB	•	wsec	0.28	1	9	0	8	4	75	2
	2 gl Vinyl, low e / TB		wsec	0.28	1	4	0	9	4	37	1
	2 gl Vinyl, low e / TB		wsec	0.28	1	2	3.5	9	6	18	
:	2 gl Vinyl, low e / TB		wsec	0.28	1	7	0.0	4	2	33	
}	2 gl Vinyl, low e / TB	~	wsec	0.28	1	5	0	3	10	16	
<u> </u>	2 gl Vinyl, low e / TB 2 gl Vinyl, low e / TB	*	wsec	0.28	<u>1</u> 1	12	0	3 7	0	15 84	2
·	2 gl Vinyl, low e / TB	*	wsec	0.28	1	12	0	7	0	84	2
}	2 gl Vinyl, low e / TB	▼	wsec	0.28	1	12	0	9	0	108	3
	2 gl Vinyl, low e / TB	_	wsec	0.28	1	8	0	7	0	56	1
sl	2 gl Vinyl, low e / TB	_	wsec	0.28	1	2	6	7	0	18	
tr	2 gl Vinyl, low e / TB	_	wsec	0.28	. 1	6	0	2	0	12	
3	2 gl Vinyl, low e / TB	▼	wsec	0.28	1	8	0	7	0	56	1
<u> </u>	Existing 2 gl Vinyl, low e / TB	•	wsec	0.48	1	6	0	5	0	30	1
)	Existing 2 gl Vinyl, low e / TB	•	wsec	0.48	1	9	6	4	0	38	1
;	Existing 2 gl Vinyl, low e / TB	•	wsec	0.48	1	3	0	4	0	12	
i	Existing 2 gl Vinyl, low e / TB	•	wsec	0.48	1	10	8	7	0	75	3
;	Existing 2 gl Vinyl, low e / TB	•	wsec	0.48	1	3	0	7	0	21	1
	Existing 2 gl Vinyl, low e / TB	•	wsec	0.48	1	8	0	7	0	56	2
1	Existing 2 gl Vinyl, low e / TB	•	wsec	0.48	1	3	0	3	0	9	
	Existing 2 gl Vinyl, low e / TB	•	wsec	0.48	1	8	0	5	0	40	1
	Existing 2 gl Vinyl, low e / TB	_	wsec	0.48	1	4	0	3	0	12	
		•	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	
		_	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	

Sum of Area and UA	920	316
Glazing Area Weighted U		0.344

Plan	n Component			Attic					
ID	Description		Ref.	U				Area	UA
	R49 blown Attic STD baffled	•	10-7	0.027				193	
	R38 2x @ 16 o.c clg/floor	•	Custom	0.026				372	1
	R38 2x @ 16 o.c clg/floor	•	Custom	0.026				74	
	_	▼	0	0.000					
					Sum	of Area and	AU b	639	1
Wall	s (Above Grade)								
Plan	n Component			Wall					
ID	Description		Ref.	U				Net Area	UA
	R21 cavity+R0 foam STD 2X6W Lap	•	10-5	0.057				791	4
		•	0	0.000					
		•	0	0.000					
]	•	0	0.000					
					Sum	of Area and	AU b	791	4
Eloo	or (over crawl or exterior)								
Plan				Floor					
ID	Description		Ref.	U				Area	UA
טו	R38 vented Joist 16oc	_	10-3	0.025				67	UA
	K30 Vented Joist 1000	Ť	0	0.023			-	07	
	_	*	0				-		
	-	Ť	0	0.000			-		
			U	0.000			l		
					Sum	of Area and	AU b	67	
	on Grade (less than 2 feet below grade)								
Plan				Slab				Slab	
ID	Description		Ref.	F			Г	Length	UA
	R10 2' horizontal	•	10-2	0.700				12	
	R10 2' horizontal w/TB	•	WSU	0.540				43	2
		•	0	0.000					
		V	0	0.000					
					Cum	of Area and	AU b	55	3
					Sulli				
Belo	ow Grade Walls and Slabs				Sulli				
				Wall	Wall	Wall	Slab	Slab	Slab
			Ref.	Wall U	Wall	Wall UA	Slab F		Slab UA
Plan	n Component	_	Ref.					Slab Length	UA
Plan	n Component	~	0	U 0.000	Wall	UA 0.0	F		UA
Plan	n Component		0	U 0.000 0.000	Wall	UA 0.0 0.0	F 0.000 0.000		UA
Plan	n Component	•	0	U 0.000	Wall	UA 0.0	F 0.000		
Plan	Component Description	* *	0 0 0	U 0.000 0.000 0.000 0.000	Wall	0.0 0.0 0.0	F 0.000 0.000 0.000		UA

				_		
Tah	Δ.	R4N	F 7	SII	mr	narv

	Triona daminary			
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		✓ 1.5
5d	Efficient Water heating 5d	0.5		
6	Renewable Electric Energy	0.5	kWh	
Total	Credits			1.5

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