

# Prescriptive Energy Code Compliance for All Climate Zones in Washington

## Project Information

Noble Fir
Silverthorne
Silverdale WA 98383

## Contact Information

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This project will use the requirements of the Prescriptive Path below and incorporate the minimum values listed. In addition, based on the size of the structure, the appropriate number of additional credits are checked as chosen by the permit applicant.

**CHANGES**

**MUST Be Approved Prior To Performing Work**

Authorized Representative 

Date

4/17/19

BASIC PERMIT PACKAGE  
REVIEWED FOR CODE COMPLIANCE  
WITH IRC 2015  
KITSAP COUNTY BUILDING DEPARTMENT

Reviewed for code compliance  
with IRC 2015  
Kitsap County Building Department  
GShapiro@co.kitsap.wa.us  
06/08/2020

All Climate Zones		
	R-Value <sup>a</sup>	U-Factor <sup>a</sup>
Fenestration U-Factor <sup>b</sup>	n/a	0.30
Skylight U-Factor	n/a	0.50
Glazed Fenestration SHGC <sup>b,e</sup>	n/a	n/a
Ceiling <sup>k</sup>	49 <sup>j</sup>	0.026
Wood Frame Wall <sup>g,m,n</sup>	21 int	0.056
Mass Wall R-Value <sup>i</sup>	21/21 <sup>h</sup>	0.056
Floor	30 <sup>g</sup>	0.029
Below Grade Wall <sup>c,m</sup>	10/15/21 int + TB	0.042
Slab <sup>d</sup> R-Value & Depth	10, 2 ft	n/a

\*Table R402.1.1 and Table R402.1.3 Footnotes included on Page 2.

Each dwelling unit in a residential building shall comply with sufficient options from Table R406.2 so as to achieve the following minimum number of credits:

- Small Dwelling Unit: 1.5 credits**  
☐ Dwelling units less than 1500 square feet in conditioned floor area with less than 300 square feet of fenestration area. Additions to existing building that are greater than 500 square feet of heated floor area but less than 1500 square feet.
- ☒ **Medium Dwelling Unit: 3.5 credits**  
All dwelling units that are not included in #1 or #3. **Exception:** Dwelling units serving R-2 occupancies shall require 2.5 credits.
- ☐ **Large Dwelling Unit: 4.5 credits**  
Dwelling units exceeding 5000 square feet of conditioned floor area.
- ☐ **Additions less than 500 square feet: .5 credits**

**Table R406.2 Summary**

Option	Description	Credit(s)		
1a	Efficient Building Envelope 1a	0.5	<input checked="" type="checkbox"/>	0.5
1b	Efficient Building Envelope 1b	1.0	<input type="checkbox"/>	
1c	Efficient Building Envelope 1c	2.0	<input type="checkbox"/>	
1d	Efficient Building Envelope 1d	0.5	<input type="checkbox"/>	
2a	Air Leakage Control and Efficient Ventilation 2a	0.5	<input type="checkbox"/>	
2b	Air Leakage Control and Efficient Ventilation 2b	1.0	<input type="checkbox"/>	
2c	Air Leakage Control and Efficient Ventilation 2c	1.5	<input type="checkbox"/>	
3a	High Efficiency HVAC 3a	1.0	<input checked="" type="checkbox"/>	1.0
3b	High Efficiency HVAC 3b	1.0	<input type="checkbox"/>	
3c	High Efficiency HVAC 3c	1.5	<input type="checkbox"/>	
3d	High Efficiency HVAC 3d	1.0	<input type="checkbox"/>	
4	High Efficiency HVAC Distribution System	1.0	<input type="checkbox"/>	
5a	Efficient Water Heating 5a	0.5	<input checked="" type="checkbox"/>	0.5
5b	Efficient Water Heating 5b	1.0	<input type="checkbox"/>	
5c	Efficient Water Heating 5c	1.5	<input checked="" type="checkbox"/>	1.5
5d	Efficient Water Heating 5d	0.5	<input type="checkbox"/>	
6	Renewable Electric Energy	0.5		
			*1200 kwh	0.0
<b>Total Credits</b>				<b>3.50</b>

Established Basic Permit #

\*Please refer to Table R406.2 for complete option descriptions

**19-01655**

**Permit Number: 20-02212**

**Table R402.1.1 Footnotes**

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

<sup>a</sup> 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.

<sup>b</sup> The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.

<sup>c</sup> "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.

<sup>d</sup> R-10 continuous insulation is required under heated slab on grade floors. See R402.2.9.1.

<sup>e</sup> There are no SHGC requirements in the Marine Zone.

<sup>f</sup> Reserved.

<sup>g</sup> Reserved.

<sup>h</sup> Reserved.

<sup>i</sup> The second R-value applies when more than half the insulation is on the interior of the mass wall.

<sup>j</sup> Reserved.

<sup>k</sup> For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38.

<sup>l</sup> Reserved.

<sup>m</sup> 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**

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

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