2021 WSEC (Effective March 15, 2024)

Residential Prescriptive Requirements

Prescriptive Energy Code Compliance for Climate Zone Marine 4

Component	Fenestration [1]		Ceiling w/ Attic	Vaulted Ceiling	Wood Framed Wall (Int.)[2]	Mass Wall (Above grade)	Below-Grade Wall [2,3]	Framed Floor	Slab R-Value & Depth
	Vertical	Overhead							
Prescriptive Value	U. 0.30 max.	U. 0.50 max.	R-60 min.	R-38 min.	R-20+5 or 13+10	R-20+5 or 13+10	R- 10/15/21 Int. + TB	R-30 min.	R-10 min. 4'depth

[1] Fenestration is defined as skylights, roof windows, vertical windows (fixed or moveable), opaque doors, glazed doors, glazed block and combination opaque/glazed doors. Fenestration includes products with glass and non-glass glazing materials.

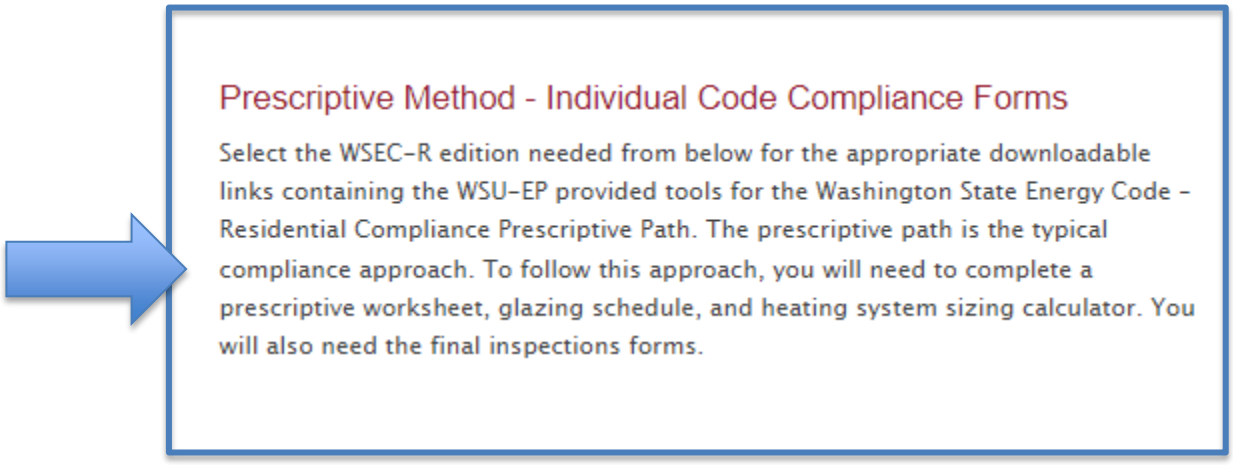
[2] Int. (intermediate framing) denotes standard framing 16" o.c. with headers insulated with a minimum R-10 insulation.

[3] 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 +5TB" 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. "5TB" means thermal break between floor slab and basement wall.

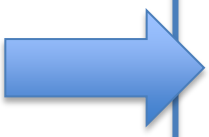
Residential Energy Code Forms for permit submittal can be located at:

https://www.energy.wsu.edu/BuildingEfficiency/EnergyCode/CodeForms.aspx

Click the above link and scroll down to find these sections with helpful information and resources:



2021 Residential Energy Code Information



WSEC-R 2021 Code Edition Forms

- Single Family Prescriptive form (v5/1/2024) – right click and save to your computer
- Multi-family Prescriptive form (v5/1/2024) – right click and save to your computer
- WSEC-R Additions & Remodels
- Building Air Leakage Test Results
- Compliance Certificate
- Duct Leakage Affidavit
- Insulation Certificate for Residential New Construction
- Simple Heating System Sizing Calculator
- Heating System Sizing Instructions
- Glazing Schedule
- Helpful Supporting Documents
  - 2021 WSEC-R Energy Code Cookbook
  - HSPF2 – 406.3
  - WSEC-R Energy Credit Options
  - 406.2 – 406.3 HVAC Flow Chart
  - IMC Ventilation Flow Chart
  - IRC Ventilation Flow Chart
  - Air Barrier Testing Flow Chart