



2015 WSEC - Washington State Energy Code

Yakima County ~ Climate Zone 5B

BFS#0030 D
Revised: 8-12-16

Building & Fire Safety Division - Yakima County Public Services

International Energy Conservation Code of the State of Washington.

It is referred to herein as "this code".

- ◆ Codes are updated every three years. Please contact the Building and Fire Safety Division to verify the correct code cycle (509) 574-2300.
- ◆ Information contained herein is to aid customers relating to the **Washington State Energy Code** for **Residential** (Type R-3 and R-4) structures located in Yakima County (climate zone - 5B).
- ◆ This public assistance brochure is a segment of the code information and requirements.
- ◆ This handout is not intended to be a complete list of codes, requirements, or forms, etc., and is subject to change without notice.
- ◆ **Further information or forms can be obtained by contacting WSU offices or website as shown below.**

<http://www.energy.wsu.edu/BuildingEfficiency/EnergyCode.aspx>

Main Olympia Office

905 Plum Street SE
Box 43165
Olympia WA 98504-3165
Phone: **360-956-2000**
Fax: **360-956-2217**



Spokane Office

534 East Spokane Falls Blvd., Suite 201
Spokane WA 99202
Phone: **509-443-4355**
Fax: **509-474-1954**

SECTION R103 CONSTRUCTION DOCUMENTS

R103.1 General. Construction documents and other supporting data shall be submitted in one of more sets with each application for a permits. The construction documents shall be prepared by a registered design professional where required by the statues of the jurisdiction in which the project is to be constructed.

Where special conditions exist, the *code official* is authorized to require necessary construction documents to be prepared by a registered design professional.

Exception: The *code official* is authorized to waive the requirements for construction documents or other supporting data if the code official determines they are not necessary to confirm compliance with this code.

R103.2 Information on construction documents.

Construction documents shall be drawn to scale upon suitable material. Electronic media documents are permitted to be submitted when approved by the *code official*. Construction documents shall be of sufficient clarity to indicate the location, nature and extent of the work proposed, and show in sufficient detail pertinent data and features of the building, systems and equipment as herein governed. Details shall include, but are not limited to, as applicable, insulation materials and their R-values; fenestration U-factors and SHGC's; area-weighted U-factor and SHGC calculations; mechanical system design criteria; mechanical and service water heating system and equipment types, sizes and efficiencies; economizer description; equipment and systems controls; fan motor horsepower (hp) and controls duct sealing, duct and pipe insulation and location; lighting fixture schedule with wattage and control narrative; and air sealing details.

DOCUMENTS SUBMITTED ELECTRONICALLY ARE SUBJECT TO A FEE FOR PRINTING COPIES.



WSU Extension Energy Program
Building Efficiency

Code experts provide support to those who use the **residential sections** of the Washington State Energy Code (WSEC). The codes go into effect every 3 years on July 1 of the following year of the specific code.

(visit the [State Building Code Council website](#) for updates).

◆ **Have questions about the residential code?**

Email energycode@energy.wsu.edu or call the WSEC Residential Code Hotline at (360) 956-2042. Website resources to help you are:

- ◆ [Listserv](#)
- ◆ [Code Text](#)
- ◆ [Compliance Publications & Help](#)
- ◆ [Energy Code Worksheets](#)
- ◆ [Scheduled Trainings](#)
- ◆ [List of Duct Testers](#)
- ◆ [Presentations & Videos](#)
- ◆ [Hot Topics](#)
- ◆ [FAQs](#)

Code Text

We provide support regarding the residential code only.

- [2015 Washington State Energy Code – Residential](#)
- [2015 Washington State Energy Code – Commercial](#)
- [2015 Washington State Energy Code – Appendices](#)
- [Compliance Publications & Tools](#)

These resources pertain to the residential sections of the 2015 WSEC.

- [Duct Testing Affidavit \(New Construction\)](#)
- [Duct Testing Standard \(RS-33\)](#)
- [Insulation Certificate](#)
- [Air \(Blower Door\) Leakage Testing](#)
- [WSEC \(Compliance Certificate\) 201 Certificate ½ sheet \(Avery 6573\)](#)

Energy Code Worksheets

Forms and worksheets for the WSEC codes are independent documents.

1. Prescriptive Method. The prescriptive approach is the simplest method of WSEC code compliance. Meet all the minimum insulation levels required by Prescriptive requirements for the climate zone where the building is being constructed and choose additional credits and the project complies with the building envelope. The following Excel file provides a method for documenting compliance with the prescriptive standards.

- [Prescriptive Worksheet – Zone 5,6 and Marine 4 Table R406.2 Energy Credits](#)

2. Glazing Schedule. Using the Prescriptive Method, all glazing must have an “area weighted average” U-Factor of .30. This means that some windows can have a higher U-Factor than .30 and some can have a lower U-factor than .30 as long as the area weighted average is U-.30 or lower. You may need to complete this form to

document glazing compliance when applying for your building permit.

- [Glazing schedule](#)

3. Heating System Sizing Calculator. This calculator is a simpler version of previous worksheets and is for newly constructed buildings. The WSEC Heating System Sizing calculator assumes that your glazing products have an area weighted average of U-.30. Use the dropdown boxes to choose insulation levels and enter the areas of each building component. The form has embedded instructions-hover your cursor over the red triangles to see them. Note that this calculator sizes heating systems only. It will not accurately size cooling systems.

- [Heating System Sizing Worksheet](#)

Component Performance Approach. Please contact WSU at energycode@energy.wsu.edu or 360-956-2042 for the current code cycle version of the CP Worksheet.