BFS Permit # _____

# Yakima County Public Services

Yakima County Public Services—Building & Fire Safety
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## 2021 IRC Chapter 11 Insulation Certificate of Residential New Construction

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|---|---|
| **Permit Number:** | |
| **House Address or Parcel Number:** | |
| **Walls** | **Blown or Sprayed Fiberglass or Cellulose - Walls** |
| Type of Insulation: | |
| Manufacturer: | |
| FG Density: 1.8lbs/ft$^3$ Cellulose: 3.4 - 4.3lbs/ft$^3$ | |
| R-Value: | |
| **Floor:** | **Blown or Sprayed Fiberglass or Cellulose - Ceiling** |
| Type of Insulation: | Settled R-Value per Inch: |
| Manufacturer: | Coverage Area: |
| R-Value: | Bag Count: |
| **Flat Ceiling/Attic:** | **Sprayed Polyurethane Foam (SPF):** |
| Type of Insulation: | Density: _____ 0.5lbs/ft$^3$ _____ 2.0lbs/ft$^3$ |
| Manufacturer: | Installed Thickness: |
| R-Value: | R-Value of Installed Thickness: |
| **Single Rafter Joist Vaulted Ceiling:** | **Building Component Installed:** |
| Type of Insulation: | Walls: |
| Manufacturer: | Ceiling: |
| R-Value: | Floor: |
| **Insulation Installer:** | |
| Company Name: | |
| Installer Name (Print): | |
| Installer Signature: | |
| Date: | |
| Phone Number: | |
| Email: | |

**2021 International Residential Code (IRC), Chapter 11**
**2021 International Energy Conservation Code (IECC), Chapter 3**
**N1101.10 (R303.1) Identification.** Materials, systems, and equipment shall be identified in a manner that will allow a determination of compliance with the applicable provisions of this code.

**N1101.10.1 (R303.1.1) Building thermal envelope insulation.** An *R-value identification mark shall be applied by* the manufacturer to each piece of *building thermal envelope insulation 12 inches (305 mm) or greater in width. Alternatively, the insulation installers shall provide a certification that indicates the type, manufacturer and R-value of insulation installed in each element of the building thermal envelope. For blown-in or sprayed fiberglass and cellulose insulation, the initial installed thickness, settled thickness, settled R-value, installed density, coverage area and number of bags installed shall be indicated on the certification. For sprayed polyurethane foam (SPF) insulation, the installed thickness of the areas covered and the R-value of the installed thickness shall be indicated on the certification. For Insulated siding, the R-value shall be labeled on the product's package and shall be indicated on the certification. The insulation installer shall sign, date and post the certification in a conspicuous location on the job site.*
**Exception**: For roof insulation installed above the deck, the *R-value shall be labeled as required by* the material standards specified in Table R906.2.

**N1101.10.1.1 (R303.1.1.1) Blown or sprayed roof/ceiling insulation.** The thickness of blown-in or sprayed fiberglass and cellulose roof and ceiling insulation shall be written in inches (mm) on markers that are installed at not less than one for every 300 square feet (28 $m^2$) throughout the attic space. The markers shall be affixed to the trusses or joists and marked with the minimum initial installed thickness with numbers not less than 1 inch (25 mm) in height. Each marker shall face the attic access opening. The thickness and total R-value of sprayed polyurethane foam insulation shall be indicated on the certification provided by the insulation installer.

**N1101.10.2 (R303.1.2) Insulation mark installation.** Insulating materials shall be installed such that the manufacturer's *R-value mark is readily observable at inspection. For insulation materials that are installed without an observable manufacturer's R-value mark, such as blown or draped products, an insulation certificate complying with Section RN1101.10.1 shall be left immediately after installation by the installer, in a conspicuous location within the building, to certify the installed R-value of the insulation material.*

**N1101.10.3 (R303.1.3) Fenestration product rating.** *U-factors of fenestration products such as windows, doors and* skylights) shall be determined in accordance with NFRC 100.
**Exception**: Where required, garage door U-factors shall be determined in accordance with either NFRC 100 or ANSI/DASMA 105.

U-factors shall be determined by an accredited, independent laboratory, and labeled and certified by the manufacturer.

Products lacking such a labeled *U-factor shall be assigned a default U-factor from Table N1101.10.3(1) or N1101.10.3(2). The solar heat gain coefficient (SHGC) and visible transmittance (VT) of glazed fenestration products such as windows, glazed doors and skylights shall be determined in accordance with NFRC 200 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled SHGC or VT shall be assigned a default SHGC or VT from Table N1110.10.3(3).*