The applicable building energy code that determines the minimum insulation requirements for commercial roofs with insulation entirely above the deck in Oregon is the 2021 Oregon Energy Efficiency Specialty Code (based on ASHRAE Standard 90.1-2019). This code is effective April 1, 2021. The minimum insulation requirements apply both to new construction and roof replacements on existing buildings.

**Notes**

- **About R-value:** R-value is a measurement of a material's ability to resist heat flow. The higher the R-value, the greater the insulating power. Installers should consult data sheets provided by polyiso manufacturers for information on product-specific R-values.

- **Code Compliance:** The International Energy Conservation Code recognizes ASHRAE 90.1 as an alternate compliance option for both new construction and existing buildings.

**Resources**

- Polyisocyanurate Insulation Manufacturers Association
- U.S. Department of Energy
Option #1 - R-25ci Roof Assembly

- Roof Membrane
- 2.2” Polyiso Boards
- Structural Roof Deck

Two layers of 2.2” polyiso R-25.2

Option #2 - R-25ci Roof Assembly

- Roof Membrane
- 0.5” HD Polyiso Cover Board
- 2.0” Polyiso Boards
- Structural Roof Deck

Two layers of 2.0” polyiso R-22.8
0.5” HD polyiso cover board R-2.5
Total R-25.3

Option #1 - R-30ci Roof Assembly

- Roof Membrane
- 2.6” Polyiso Boards
- Structural Roof Deck

Two layers of 2.6” polyiso R-30

Option #2 - R-30ci Roof Assembly

- Roof Membrane
- 0.5” HD Polyiso Cover Board
- 2.4” Polyiso Boards
- Structural Roof Deck

Two layers of 2.4” polyiso R-27.6
0.5” HD polyiso cover board R-2.5
Total R-30.1
PIMA

For more than 30 years, PIMA (Polyisocyanurate Insulation Manufacturers Association) has served as the unified voice of the rigid polyiso industry proactively advocating for safe, cost-effective, sustainable and energy-efficient construction. PIMA’s membership includes manufacturers of polyiso insulation and suppliers to the industry. PIMA members produce the majority of polyiso used in North America.

About Polyiso Insulation

Polyiso is a rigid foam insulation used in more than 70% of commercial roof construction and offers a continuous insulation solution for commercial and residential wall assemblies. As one of North America’s most widely used and readily available building products, polyiso is a cost-effective insulation option for reducing building energy use and improving the overall service-life of roofs and walls.

For more information on polyisocyanurate insulation, visit www.polyiso.org