Colorado does not enforce a uniform statewide energy code. However, effective August 2, 2019, legislation (House Bill 19-1260) requires all local jurisdictions in Colorado to adopt and enforce one of the three most recent versions of the International Energy Conservation Code (IECC) upon updating any other building code. Therefore, with the publication of the 2021 IECC, jurisdictions in Colorado will be required to adopt the 2015, 2018 or 2021 versions of the IECC. The minimum insulation requirements for commercial roofs with insulation entirely above the deck are the same in these versions of the IECC. The minimum insulation requirements apply both to new construction and roof replacements on existing buildings. Local information on building energy codes is available from the Colorado Energy Office here.

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-30ci Roof Assembly

2.6” Polyiso Boards
Structural Roof Deck

Two layers of 2.6” polyiso R-30

Option #2 - R-30ci Roof Assembly

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

Two layers of 2.4” polyiso R-276
0.5” HD polyiso cover board R-2.5
Total R-30.1

Option #1 - R-35ci Roof Assembly

3.1” Polyiso Boards
Structural Roof Deck

Two layers of 3.1” polyiso R-36.0

Option #2 - R-35ci Roof Assembly

0.5” HD Polyiso Cover Board
2.9” Polyiso Boards
Structural Roof Deck

Two layers of 2.9” polyiso R-33.6
0.5” HD polyiso cover board R-2.5
Total R-36.1
PIMA

For more than 30 years, the Polyisocyanurate Insulation Manufacturers Association (PIMA) has served as the voice of the rigid polyiso industry, proactively advocating for safe, cost-effective, sustainable, and energy-efficient construction. Organized in 1987, PIMA is an association of polyiso manufacturers and industry suppliers. Polyiso is one of North America’s most widely-used and cost-effective insulation products.

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