The applicable building energy code that determines the minimum insulation requirements for commercial roofs with insulation entirely above the deck in Ohio is the [2017 Ohio Building Code](https://energy.ohio.gov/ohio-building-code) (based on the 2012 International Energy Conservation Code with state-specific amendments). This code is effective January 1, 2017. The minimum insulation requirements apply both to new construction and roof replacements on existing buildings.

### Minimum R-value Requirements for Insulation Entirely Above the Roof Deck

<table>
<thead>
<tr>
<th>Climate Zone</th>
<th>Minimum R-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climate Zone 5</td>
<td>R-25ci</td>
</tr>
<tr>
<td>Climate Zone 4</td>
<td>R-25ci</td>
</tr>
</tbody>
</table>

**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](https://polyiso.org)
- [U.S. Department of Energy](https://www.energy.gov/energysavers)
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

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