FIRESTONE RESISTA™ POLYISO INSULATION BOARD

FIRE, WIND AND ENVIRONMENTAL PROTECTION

When considering insulation, organic faced ISO board is a popular choice. Firestone Building Products offers RESISTA Polyiso Insulation Board as an economical choice that provides excellent fire, wind and environmental protection. Like all Firestone insulation boards, RESISTA Polyiso is a smart choice to add an enhanced degree of mold and fire resistance and insulation to any roofing system.

BENEFITS

- Environmentally friendly (contains no hydrochlorofluorocarbons)
- Mold-resistant per ASTM D3273
- Offers more roofing system choices
- Provides fire resistance
- Provides valuable energy savings
- Helps sustain the environment
- Enhanced FM codes utilizing reduced fastening with RESISTA Polyiso and ISOGARD™ HD Board
- LEED® credits for energy optimizations/material resources
- UL Class A over combustible decks (see chart on next page)
- May reduce installation time and labor costs
- Easy manipulation and placement
- Easy to cut, handle and apply for quick fabrication around roofing elements such as drains or other penetrations
- Enhanced wind uplift performance compared to standard glass reinforced mat facer

CRITICAL AREAS

R-Value

Proprietary ISOGARD™ foam technology provides RESISTA Polyiso with an impressive insulating value for its thickness. This can provide significant energy savings to structures, even those with existing under-deck insulation.

<table>
<thead>
<tr>
<th>Insulation Thickness (Inches)</th>
<th>LTTR* R-Value</th>
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</thead>
<tbody>
<tr>
<td>1.00</td>
<td>5.7</td>
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<tr>
<td>1.50</td>
<td>8.6</td>
</tr>
<tr>
<td>2.00</td>
<td>11.4</td>
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<tr>
<td>2.50</td>
<td>14.4</td>
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<tr>
<td>3.00</td>
<td>17.4</td>
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<tr>
<td>3.50</td>
<td>20.5</td>
</tr>
<tr>
<td>4.00</td>
<td>23.6</td>
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*Mold Resistance

RESISTA Insulation Board meets ASTM D3273 standards for mold resistance. It is double coated on both sides with a unique non-organic facing material, providing it with exceptional mold inhibiting properties.
RE-WRITING THE SPECS ON POLYISO INSULATION

GENERAL PROPERTIES

- ISOGARD foam technology *(HCFC-free closed cell polyisocyanurate)*
- Manufactured with a double-coated non-organic facer
- Provides mold and fire resistance
- Compatible with all Firestone membranes—fully adhered and mechanically attached single-ply, cold-applied and self-adhered modified bitumen membranes
- Compressive strength of 20 psi
- Contains recycled content
- Meets ASTM Type II Class 2
- Higher facer adhesion *(Rolling Load Emulator)*

Fire Resistance

RESISTA Polyiso Insulation Board achieves a UL Class A rating for fire resistance when used over combustible decks, and is compatible with single-ply, modified bitumen and metal roof systems. Other insulation boards may require up to a thickness of 3.1” to achieve the same approvals. RESISTA board can also provide increased slope limitations for existing Firestone Roofing System Classifications.

### UL Rating | Roof Slope | Deck Type | Insulation | Membrane
--- | --- | --- | --- | ---
Class A | Max. ½:"12" | Combustible | Min. 1” RESISTA | UltraPly™ TPO Fully Adhered
Class A | Max. ½:"12" | Combustible | Min. 1” RESISTA | UltraPly TPO Fully Adhered
Class A | Max. ½:"12" | Non-Combustible | Min. 1” RESISTA | UltraPly TPO Fully Adhered
Class A | Max. ½:"12" | Non-Combustible | Min. 1” RESISTA | UltraPly TPO Mechanically Attached
Class B | Max. 1½:"12" | Combustible | Min. 1” RESISTA | UltraPly TPO Mechanically Attached
Class B | Max. 1½:"12" | Non-Combustible | Min. 1” RESISTA | UltraPly TPO Fully Adhered
Class B | Max. 1½:"12" | Non-Combustible | Min. 1” RESISTA | UltraPly TPO Fully Adhered
Class A | Max. ½:"12" | Non-Combustible | Min. 1” RESISTA | FR EPDM, MAX, EcoWhite™ & LS-FR Fully Adhered or Mechanically Attached
Class A | Max. 2½:"12" | Non-Combustible | Min. 1” RESISTA | Max FR Fully Adhered or Mechanically Attached
Class A | Max. ½:"12" | Combustible | Min. 1” RESISTA | Standard EPDM, FR EPDM, MAX, EcoWhite & LS-FR Fully Adhered or Mechanically Attached
Class A | Max. ½:"12" | Non-Combustible | Min. 1” RESISTA | SBS FR or APP FR Cold Adhesive
Class A | Max. ½:"12" | Non-Combustible | Min. 1” RESISTA | TPO XR Ribbon Attachment
Class A | Unlimited | Non-Combustible | Min. 1” RESISTA | UltraPly TPO Mechanically Attached

### Specs & Details

- **Panel availability**
  - 4’ x 4’ - 4’ x 8’ - Tapered

- **Wind-uplift performance**
  - Able to achieve all existing Factory Mutual Ratings as standard ISO 95+™ GL insulation
  - Provides reduced fastening for specific assemblies
  - Provides increased wind ratings with insulation adhesive over concrete decks

- **System compatibilities**
  - Fully adhered single-ply
  - Mechanically attached single-ply
  - SBS/APP *(cold-applied and self-adhered)*

- **LEED® Benefits Energy and Atmosphere Credits**
  - EA Pre-requisite 2: Minimum Energy Performance
  - EA Credit 1: Optimize Energy Performance *(1-19 points)*

- **Material & Resources Credits**
  - MR Credit 2: Construction Waste Management *(1 – 2 points)*
  - MR Credit 3: Material Re-Use *(1-2 points)*
  - MR Credit 4: Recycled Content *(1-2 points)*
  - MR Credit 5: Regional Material *(1-2 points)*