

# Firestone RESISTA™ Polyiso Insulation Board

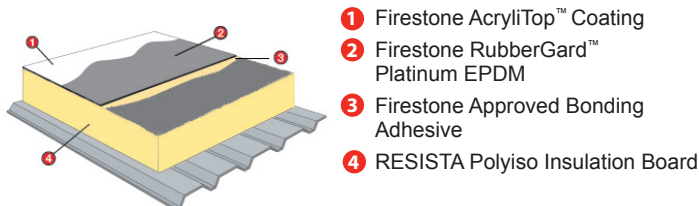
When considering insulation, organic faced ISO board is a popular choice. But Firestone offers **RESISTA Polyiso Insulation Board**—an economical choice that provides comparable or better fire, wind and environmental protection. Like all Firestone insulation boards, RESISTA Polyiso is a smart choice to add an enhanced degree of resistance and insulation to any roofing system. RESISTA Insulation Board stands out in three critical areas: R-value, fire resistance and mold resistance.

## 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.

Insulation Thickness		LTTR* R-Value
(inches)	(mm)	
1.00	25.4	6.0
1.25	31.7	7.5
1.50	38.1	9.0
1.75	44.5	10.5
2.00	50.8	12.1
2.30	58.4	14.0
2.50	63.5	15.3
2.80	71.1	17.2
3.00	76.2	18.5
3.25	82.6	20.1
3.50	88.9	21.7
3.75	95.3	23.4
4.00	101.6	25.0

\*Long Term Thermal Resistance (LTTR) values provide a 15-year time-weighted average in accordance with CAN/ULC-S770.



## 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.



## RESISTA 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 Mechanically Attached
Class A	Max. ¼":12"	Combustible	Min. 1" RESISTA	UltraPly TPO Fully Adhered
Class A	Max. ¼":12"	Non-Combustible	Min. 1" RESISTA	UltraPly TPO Fully Adhered
Class A	Max. ¼":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 1":12"	Non-Combustible	Min. 1" RESISTA	UltraPly TPO Fully Adhered
Class B	Max. ¼":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. ¼":12"	Non-Combustible	Min. 1" RESISTA	SBS FR or APP FR Cold Adhesively Applied
Class B	Max. ¼":12"	Non-Combustible	Min. 1" RESISTA	TPO XR Ribbon Attachment
Class A	Max. ½":12"	Combustible	Min. 1" RESISTA	TPO XR Ribbon Attachment
Class A	Unlimited	Non-Combustible	Min. 1" RESISTA	UNA-CLAD Warranted Metal Roofing Systems

• This chart is a brief synopsis of approvals utilizing Firestone RESISTA™ Insulation Board.  
 • Please refer to the Technical Database of [www.firestonebpc.com](http://www.firestonebpc.com) for specific requirements and additional approvals.  
 • Fully adhered assemblies may use BA-2004T, Water Based, Single Ply LVOC, or UltraPly TPO Bonding adhesive.

# RESISTA™ Polyiso Insulation Board

is re-writing the specs on what you think you know about polyiso insulation.

## General properties

- 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
- ISOGARD™ foam technology (HCFC-free closed cell polyisocyanurate)
- Manufactured with a double-coated non-organic facer
- Provides mold and fire resistance
- RESISTA Polyiso Insulation Board is 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)

## Benefits

- Environmentally friendly (contains no hydrochlorofluorocarbons)
- Mold-resistant per ASTM D3273
- Offers more roofing system choices
- 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 previous page)
- May reduce installation time and labor costs
- Easy manipulation and placement



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## RESISTA™ Polyiso Insulation Board 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)

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