

# Paratherm® HD Barrier

## 1/2" High Density (≥80 psi) Polyiso Cover Board with CGF Facers for Combustible Decks

### Description:

Paratherm® HD Barrier Polyiso Cover Board is made of durable coated glass fiber facers (CGF) bonded to a core of high density polyisocyanurate foam designed to be installed directly over a combustible deck.

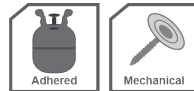
Paratherm® HD Barrier Polyiso insulation offers high thermal performance for commercial roofing applications over a combustible deck.

### Features and Benefits:

- R-value 2.5 — highest R-value compared to non-polyiso cover boards of equivalent thickness
- High compressive strength — 80 psi (551 kPa) minimum up to 109 psi (751 kPa) maximum
- Paratherm® HD Barrier Polyiso Cover Board achieves an ANSI/UL 790 Class A roofing fire resistance rating as a component of UL Classified roofing assemblies over combustible decks with a 0.5" (12.7 mm) board thickness. Refer to UL Product iQ for specific assemblies
- Lightweight — only 11 lbs (4.9kg) per 4' x 8' (1.22m x 2.44m) board
- Easy to cut, easy to install
- Meets the requirements of D3273 for resistance to mold growth\*
- Ideal for low-slope roofs with high foot traffic<sup>†</sup>, exposure to hail events<sup>‡</sup> and metal retrofit applications

### System Approvals:

- Approved component in commercial roof systems, mechanically attached and adhered
- Recommended for Multi-Family applications with wood decks
- Refer to the applicable Siplast Technical Guide for detailed application information



### Panel Characteristics:

- 1/2" (12.7mm) thickness
- Available in 4' x 4' (1.22m x 1.22m) and 4' x 8' (1.22m x 2.44m)
- 48 pieces per bundle

### Codes & Compliance:

- Meets the requirements of ASTM C1289 Type II, Class 4, Grade 1
- Classified by UL in accordance with ANSI/UL 790 and 1256. Refer to UL Product iQ for specific assemblies
- FM Approved. Including as a component of a Class 1 SH hail rated assembly.<sup>‡</sup> Refer to Roofnav.com for approved assemblies.
- UL Evaluation Report ER1306-03
- State of Florida Approved



### Sustainability:

- Manufactured with EPA-compliant blowing agents containing no CFCs or HCFCs; has zero ozone depletion potential (ODP) and negligible global warming potential (GWP)
- Potential LEED Credits for polyiso use
- GREENGUARD Gold
- Where sold compliant with State HFC regulations. More information available at [www.polyiso.org](http://www.polyiso.org)
- Environmental Product Declaration (EPD)



\* Siplast warranties and guarantees do not provide coverage against mold or other biological growth. Refer to [Siplast.com](http://Siplast.com) for more information on warranty and guarantee coverage and restrictions.

<sup>†</sup> Siplast warranties and guarantees do not provide coverage against traffic. Refer to [Siplast.com](http://Siplast.com) for more information on warranty and guarantee coverage and restrictions.

<sup>‡</sup> Siplast warranties and guarantees do not provide coverage against hail except where additional puncture resistance coverage is purchased on eligible jobs. Refer to [Siplast.com](http://Siplast.com) for more information on warranty and guarantee coverage and restrictions.

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## Typical Physical Property Data:

Property	Test Method	Values
Compressive Strength	ASTM D1621	80 psi min (551 kPa) up to 109 psi max (751 kPa)
Dimensional Stability Change (length + width)*	ASTM D2126	< 1% linear change
Flute Spanability	ASTM E661	3.75" (93.5mm)
Flexural Strength	ASTM C203	400 psi min (2,750 kPa)
Tensile Strength	ASTM C209	2,000 psf min (95 kPa)
Water Absorption (percent by volume)	ASTM C209	4% max
Water Vapor Permeance	ASTM E96, Procedure A	1.5 perm max (85.8ng/Pa•s•m <sup>2</sup> )
Service Temperature †		260°F (126.7°C) or less
Resistance to Mold ‡	ASTM D3273	Pass (10)
R-value	ASTM C518	2.5

## Warnings and Limitations:

- Paratherm® HD Barrier Polyiso Cover Board is a non-structural, non load-bearing material. It is not designed for direct traffic usage unless adequately protected.
- As unprotected polyisocyanurate will burn, fire safety precautions should be observed wherever insulation products are used.
- Direct torching of modified bitumen roofing to Paratherm® HD Barrier Polyiso Cover Board will present a fire hazard and is not recommended. A properly installed ply sheet or approved cover board MUST be used over the insulation.
- Refer to the application specifications in the current membrane manufacturer's application and specifications manual for proper installation procedures.
- Material delivery should be carefully coordinated with the schedule for roofing operations to minimize job site storage time. Upon delivery, remove the factory packaging or slit on all four sides and cover pallets with a breathable, waterproof covering to allow for ventilation and to prevent the accumulation of condensation. Whenever possible, store pallets over finished surfaces rather than on dirt or grass to avoid upward transpiration of moisture and accumulation of condensate. Consider interior storage offering dry, well-ventilated conditions when the Paratherm® HD Barrier Polyiso Cover Board is to be stored for more than 14 days prior to installation.

\* Stated dimensional stability tolerance: thickness shall not diminish by more than 4% max (at -40° F or 200° F at ambient RH) or by more than 4.5% max (158° F & 97% RH).

† These numerical ratings are not intended to reflect hazards presented by these or any other material under actual fire conditions.

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