

PARATHERM HD & PARATHERM W HD COVERBOARD



Commercial Product Data Sheet

Product Description

Paratherm HD and Paratherm W HD Coverboard are rigid roof insulation boards comprised of a high-density closed cell polyisocyanurate foam core bonded on each side to inorganic coated fiberglass facers. Standard product for each has a compressive strength of 80 psi (Grade 2).

Product Uses

Paratherm HD or Paratherm W HD Coverboard is typically used as a coverboard in approved roof constructions requiring a Siplast single-source guarantee. Each panel of Paratherm HD or Paratherm W HD Coverboard must be secured or adhered to the roof deck with Factory Mutual Approved fasteners/plates or adhesive (appropriate to the deck type) in accordance with current FM requirements, if applicable. See the Siplast Base Sheet and Rigid Insulation Usage Guide @ www.Siplast.com for usage guidelines.

Product Approvals

Paratherm HD & Paratherm W HD meets or exceeds the requirements of ASTM C1289 Type II, Class 4, Grade 1. Paratherm is Factory Mutual Approved for use in Class 1 constructions when installed according to FM requirements. Paratherm HD & Paratherm W HD has been classified by Underwriters Laboratories and Underwriters Laboratories Canada, Inc. as an approved roof insulation.

Mechanical and physical properties are on the back side of this data sheet.

Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at www.Siplast.com.

COMMERCIAL PRODUCT INFORMATION

Panel Size: Available in 4' x 8' (1.22 m x 2.43 m) and 4' x 4' (1.22 m x 1.22 m) panels.

Thickness – 1/2 inch (2.54 cm)

Packaging:

Paratherm products are shipped to the job site protected by a plastic wrap, plastic bag, or both. This factory packaging is intended for handling the Paratherm product in the manufacturing plant and during transit; it should not be relied upon as job site protection from the elements.

Storage & Handling:

Material delivery should be carefully coordinated with the schedule for roofing operations to minimize job site storage time. Upon delivery, the factory packaging should be removed or slit on all four vertical sides to allow for ventilation and to prevent the accumulation of condensation. Interior storage offering dry, well-ventilated conditions should be considered when the product is to be stored for more than 14 days prior to installation. When short-term job site storage is necessary, Paratherm products should be stored flat on raised pallets or platforms at least 4 inches above the ground. Pallets should be stored on a finished surface rather than on dirt or grass to avoid upward transpiration of moisture. Pallets should be covered with a breathable, waterproof covering.

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Physical and Mechanical Properties

THERMAL PROPERTIES

Nominal Thickness	Thermal Value (R-value)*	Thermal Value (RSI)**
½-inch (12.7 mm)	2.5	0.44

* Calculated using ASTM C518 at 75° mean temperature.

** RSI is the metric expression of thermal value ($m^2 \times K/W$).

PHYSICAL/MECHANICAL PROPERTIES

Property	Test Method	Value
Dimensional Stability*	ASTM D2126	<0.5%
Compressive Strength	ASTM D1621	Grade 1 (80 psi)
Water Absorption	ASTM D209	<3%
Tensile Strength	ASTM D1623	>2000 psf (95 kPa)
Service Temperature	N/A	-100°F - 250°F
Mold Resistance	ASTM D3273	Pass

* Percentage change (7 days @ 158°F [70°C] 97% RH).