



Poly ISO 1-HD™ Plus

Cover Board

PRODUCT DATA SHEET

DESCRIPTION

Mule-Hide Poly ISO 1-HD Plus is an FM-approved, ½” thick high density polyisocyanurate insulation board that was specifically designed for use as a cover board in fully adhered systems. Suitable for both re-roofing and new construction applications, this product is manufactured on-line using premium-performance coated glass facers (CGF). Poly ISO HD-1 Plus has an R-value of 2.5, which is significantly higher than roof cover boards made with other materials such as wood fiber or gypsum.

BENEFITS AND SUPPLEMENTAL STATEMENTS

- Industry leading 8 fasteners per 4' x 8' board needed to meet Factory Mutual (FM) 1-90
- Lightweight (13 lbs per 4' x 8' panel), easy to cut, handle and install
- Exceptional protection against hail, rooftop traffic, mold, and moisture
- High-density formulation achieves FM severe hail rating (SH)
- 5 times higher R-value than gypsum cover boards
- 2 times higher R-value than wood fiber boards
- 1/5 the weight of gypsum cover boards
- Compatible with all Mule-Hide single-ply roofing systems (except ballast)
- Coated glass facer provides strong bond for adhered roofing applications

PACKAGING

- 4'x8' Panels - 48 pieces - 624 lbs.
- 4'x4' Panels - 96 pieces - 624 lbs.

Factory applied packaging is only intended for protection during transit. When stored outside or at the job site, the insulation must be stored at least 4" above ground level and completely covered with a weatherproof covering such as a tarpaulin. **Warning - Do Not Leave Exposed:** Product must be protected from open flame and kept dry at all times. Install only as much insulation that can be covered the same day by the roofing system.

CODE APPROVALS/COMPLIANCE

- ASTM C1289, Type II, Class 4, Grade 1 (109 psi max.)
- International Building Code (IBC) Section 2603
- UL Standard 790, 263 and 1256: Component of Class A Roof
- FM Standards 4450/4470: Class 1 approval for steel roof-deck constructions (refer to FM RoofNav)
- CAN/ULC S704, Type 3, Class 2
- California Codes of Regulations, Title 24, Insulation Quality Standard
- Florida Building Code Approval

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Typical Result
Dimensional Stability	ASTM D2126	<0.5% Linear Change (7 days)
Compressive Strength	ASTM D1621	109 PSI Max
Water Absorption	ASTM D209	< 1% By Volume
Service Temperature		260°F or less
R-Value at 1/2" (13mm)	ASTM C518	2.5
Weight	--	13 lbs / 4'x8' - 6.5 lbs / 4'x4'
Resistance to Mold	ASTM D3273	Passed

The physical properties above are presented as typical average values as determined by accepted ASTM test methods and are subject to change. All information can be confirmed by contacting Mule-Hide Products.

*Meets the requirements of the IB code. For specific Flame Spread or Smoke Developed Ratings, Please contact the Mule-Hide Technical Department..

LEED® INFORMATION

Pre-Consumer Recycled Content	9%
Post-Consumer Recycled Content	0%
Manufacturing Locations	Smithfield, PA; Franklin Park, IL; Tooele, UT
Solar Reflectance Index (SRI)	N/A

INSTALLATION INSTRUCTIONS

General - All boards must be tightly fitted together to prevent movement, separation or damage during the installation of the membrane system. All gaps greater than 1/4" must be filled.

Mechanically Attached Single-Ply Membrane Systems - Mule-Hide Poly ISO 1-HD must be secured to the substrate with approved Mule-Hide plates and fasteners. Butt edges and stagger joints of adjacent panels. Refer to the Mule-Hide Insulation Fastening Guidelines for proper fastener placement.

Adhesive Attachment - Helix Max Low-Rise Adhesive may be used to attach the Mule-Hide Poly ISO 1-HD to approved substrates. Only 4' x 4' boards may be used. Butt edges and stagger joints of adjacent panels. Contact Mule-Hide's Technical Department for specific requirements and procedures.



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PROTECTION & SAFETY

Mule-Hide maintains Safety Data Sheets on all of its non-exempt products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers. Mule-Hide's Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Mule-Hide products in your facilities.

ADDITIONAL INFORMATION

The information given on this PDS is subject to change without notice. Always check the Mule-Hide website at www.mulehide.com for the latest information, changes and updates or contact Mule-Hide Products Company at 800-786-1492.

DISCLAIMER

The statements provided concerning the material shown are intended as a guide for material usage and are believed to be true and accurate at the time of printing. No statement made by anyone may supersede this information, except when done in writing by Mule-Hide Products Co., Inc. Since the manner of use is beyond our control, Mule-Hide does not authorize anyone to make any warranty of merchantability or fitness for any particular purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material. This product may be eligible for a Mule-Hide warranty, please check the Mule-Hide website at www.mulehide.com or contact Mule-Hide directly at 800-786-1492 for details. Buyer and user accept the product under these conditions and assume the risk of any failure, any injury person or property (including that of the user), loss or liability resulting from the handling, storage or use of the product whether or not it is handled, stored or used in accordance with the directions or specifications. Mule-Hide must be notified in writing of any claims and be given the opportunity to inspect the alleged failure before repairs are made.