



Product Data Sheet

MULE-HIDE POLY ISO1-HD™

PRODUCT DESCRIPTION

Mule-Hide Poly ISO 1-HD is ½” thick, 100 psi high density polyisocyanurate insulation board that was specifically designed for use as a cover board. This product consists of a closed-cell polyisocyanurate foam core laminated to premium performance coated glass fiber felt facers. Mule-Hide Poly ISO 1-HD is compatible with all Mule-Hide membranes and accessories. In addition to providing a durable underlayment roofing membranes, Poly ISO HD-1 has a R-value of 2.5 which is significantly higher than that of other cover board products such as woodfiber or gypsum.



BASIC USES

Mule-Hide Poly ISO 1-HD is designed for use as a cover board over roof insulation boards or existing membranes. It is compatible with Single-Ply roofing systems (ballasted, mechanically attached and fully adhered) and Modified Bitumen Roofing Systems, on new construction, tearoff, and recover (retrofit) projects. Suitable for use with approved fasteners and plates, and low-rise adhesive. Poly ISO 1-HD can achieve a FM hail resistance rating of SH-1 with certain membranes.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Typical Results
Dimensional Stability	ASTM D-2126	< 0.5% Linear Change (7 days)
Compressive Strength	ASTM D-1621 (modified)	>100 psi
Water Absorption	ASTM D-209	< 1% By Volume
Resistance to Mold	ASTM D-3273	Passed (10)
Service Temperature	---	260°F or less
Recycled Content	---	>8%
R-Value @ ½” (13 mm)	ASTM C-518	2.5
Weight	---	11 lbs / 4' x 8' – 0.343 psf

*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.

PACKAGING

4'x8' Panels	96 pieces per full bundle	1056 lbs per bundle
	45 pieces per half bundle*	495 lbs per half bundle

*contact Mule-Hide for availability of half bundles

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

Poly ISO 1-hd complies with the requirements of the following specifications, test and code requirements when properly installed.

- * ASTM E-108
- *FM Approved – consult RoofNav for specific assemblies
- *UL Classified 790

Mule-Hide Poly Iso 1 is manufactured with NexGen Chemistry™ – Zero ODP, CFC Free, EPA Compliant.

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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.

Ballasted Single-Ply Membrane Systems - Mule-Hide Poly ISO 1-HD does not require attachment to the deck in this system. Sufficient amounts of ballast must be applied to prevent membrane and insulation movement. Refer to the Mule-Hide Manual and FM Loss Prevention Data Sheet 1-29 for information regarding ballasting guidelines.

Mechanically Attached Single-Ply Membrane Systems - Mule-Hide Poly ISO 1-HD should be attached with Mule-Hide fasteners and insulation plates (or FM Approved fasteners) using a minimum of 4 fasteners per 4'x 4' board (1 fastener per 4 square feet) and a minimum of 6 fasteners per 4'x 8' board (1 fastener per 5.33 square feet). Refer to the Mule-Hide Manual for proper fastener placement.

Fully Adhered Single-Ply Membrane Systems - Mule-Hide Poly ISO 1-HD should be attached using a minimum of 8 fasteners per 4'x 4' board (1 fastener per 2 square feet) and a minimum of 16 fasteners per 4'x 8' board (1 fastener per 2 square feet). Refer to the Mule-Hide Manual for proper fastener placement.

Attachment - In some instances insulation adhesive may be used to attach the Mule-Hide Poly ISO 1-HD to approved substrates. Only 4'x 4' boards may be used. Contact Mule-Hide's Technical Department for specific requirements and procedures.

PROTECTION & SAFETY

Mule-Hide maintains Material Safety Data Sheets on all of its products. Material 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 Material 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