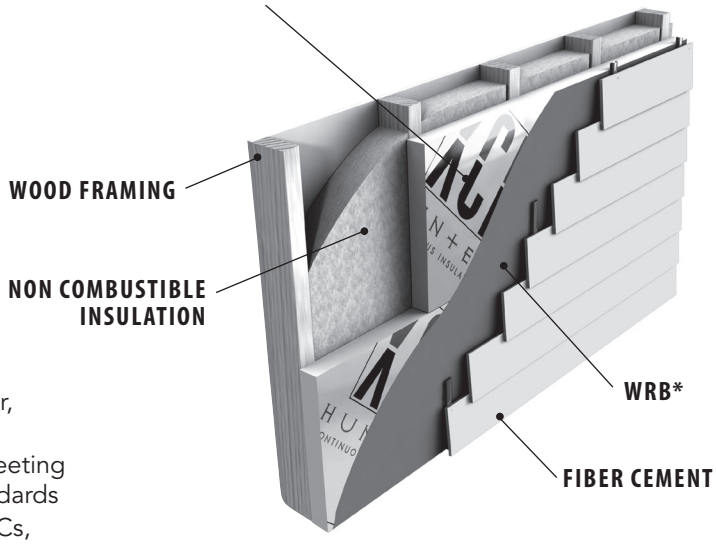
Hunter Panels Xci Foil

Reflective Foil Faced Polyisocyanurate Foam Sheathing for Residential and Light Commercial Application

HUNTER CONTINUOUS INSULATION

HUNTER PANELS Xci FOIL



* The location and number of WRB's in the wall assembly are determined by the architect.

DESCRIPTION

Xci Foil is a high thermal performance rigid insulation panel composed of a polyisocyanurate foam core bonded with reflective tri-laminate foil facers on both sides. It is designed for use in wall applications to meet the requirements for continuous insulation (ci) within the building envelope.

FEATURES AND BENEFITS

- Polyiso offers increased R-Value per inch vs mineral fiber, XPS or EPS options
- Designed for use in continuous insulation to assist in meeting the most current ASHRAE 90.1, IECC, IBC and IRC standards
- Manufactured with NexGen Chemistry: Contains no CFCs, HCFCs, is Zero ODP, and has virtually no GWP
- Lightweight yet durable, easy to handle. Cuts with a knife or saw.

APPLICATIONS

- Provides continuous insulation (ci) for standard wood frame, FRT wood frame, steel stud, CMU and concrete exterior wall constructions
- Exterior retrofit applications of existing walls
- Interior retrofit of existing walls or ceilings in concealed applications when protected by code-approved 15-minute thermal barrier
- Xci Foil is compatible with wood, vinyl, fiber cement, aluminum, or hardboard sidings in wood frame construction

Note: Xci Foil is not suitable for exposed interior applications.

PANEL CHARACTERISTICS

- ASTM C 1289 Type 1, Class 1. Grade 1, 2 or 3 available.
- Available 4' x 8' (1220mm x 2440mm) panels in thicknesses of 0.5" (12.7mm) - 4.0" (102mm)
- Other sizes are available upon special request—(for example: 16" or 24" width)

CODES AND COMPLIANCES

- ASTM C 1289
- International Residential Code (IRC) R316 and International Building Code (IBC) Chapter 26
- NFPA 285 passed, contact Hunter Panels for more information
- DRJ Technical Evaluation Report 1402-02
- Miami Dade County Product Control Approved

Continuous Insulation
NFPA 285 APP

WRB

The incorporation of Weather Resistant Barriers (air, vapor and moisture) is a critical element of a wall assembly. A design professional familiar with local code requirements should specify the selection and placement of any WRB. Furthermore, it is recommended that a hygrothermal analysis of the proposed assembly be conducted to determine the type and locations of a proposed WRB.

Note: Xci Foil with taped or foamed seams can be considered a WRB.

Xci Foil Thermal Values

Thickness (inches)	Thickness (mm)	R Value*
0.5	12.7	3.3
0.75	19	5.0
1.0	25	6.5
1.5	38	10.0
2.0	51	13.3
2.5	64	17.0
3.0	76	20.3
3.5	89	24.0
4.0	102	27.0

**Thermal values as per ASTM C 518 in accordance with ASTM C 1289*

Residential/Light Commercial

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WARNINGS AND LIMITATIONS

Insulation must be protected from open flame. Hunter Panels will not be responsible for specific building design by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site or for improper storage and handling. Technical specifications shown in this literature are intended to be used as general guidelines only and are subject to change without notice. Call Hunter Panels for more specific details.

INSTALLATION

- Xci Foil is not a structural sheathing, code approved shear or corner bracing is required
- Exterior cladding must be attached through the insulation to the framing
- For wood framing, secure boards with 3/8" head diameter galvanized roofing nails which must penetrate the stud at least ¾" or use 1" crown 16 gauge staples which penetrate framing ½"
- Fasten insulation to framing every 12" around the perimeter and every 16" in the field
- Refer to local codes and practices for placement of the WRB in the wall assembly
- Exterior siding can be installed over Xci Foil. Refer to the siding manufacturer's installation instructions.

POST-INSTALLATION EXPOSURE

During the time frame between installation of Xci Foil and the application of the finished exterior cladding, it is recommended that a building wrap be applied to the Xci Foil. If a building wrap has not been specified, ALL UNFACED FOAM EXPOSED TO DIRECT DAYLIGHT (i.e. corners, window and door openings) should be taped with a compatible waterproof tape. Xci Foil is not intended to be left exposed for extended periods of time (i.e. in excess of 60 days) without adequate protection. Please contact Hunter Panels for details.

JOB-SITE STORAGE

Good construction practice dictates that all insulations should be protected from moisture and direct sunlight during job-site storage. Pallets of Hunter Panels Xci Foil are double packaged in a UV resistant polyethylene bag. This moisture resistant package is designed for protection from the elements during flat bed shipment from our factories to the job-site. Outdoor storage for extended periods of time requires waterproof tarpaulins and elevated storage above ground level a minimum of 2". Additionally, we recommend slitting the bundle packaging vertically down the center of the two short sides to prevent moisture accumulation within the package.

Typical Physical Property Data Chart

Property	Test Method	Value
Compressive Strength	ASTM D 1621	20 psi* min. (138kPa, Grade 2)
Dimensional Stability	ASTM D 2126	2% linear change (7 days)
Moisture Vapor Permeance	ASTM E 96	<0.05 perm (2.875ng/(Pa•s•m²))
Water Absorption	ASTM C 209	< 0.05% volume
Service Temperature		-100° to 250° F (-73°C to 122°C)
Recycled Content		9% pre-consumer

**Also available in Grade 3 (25 psi)*

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NEXGEN CHEMISTRY

PIMA POLYISOCYANURATE INSULATION MANUFACTURERS ASSOCIATION

LEED POTENTIAL CREDITS FOR POLYISO USE

Energy and Atmosphere
- Optimize Energy Performance

Materials & Resources
- Building Life-Cycle Impact Reduction
- Environment Product Declaration
- Material Reuse
- 9% Pre-consumer Recycled Content
- Construction and Demolition Waste Management

Indoor Environmental Quality
- Thermal Comfort

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