



HUNTER  
CONTINUOUS INSULATION

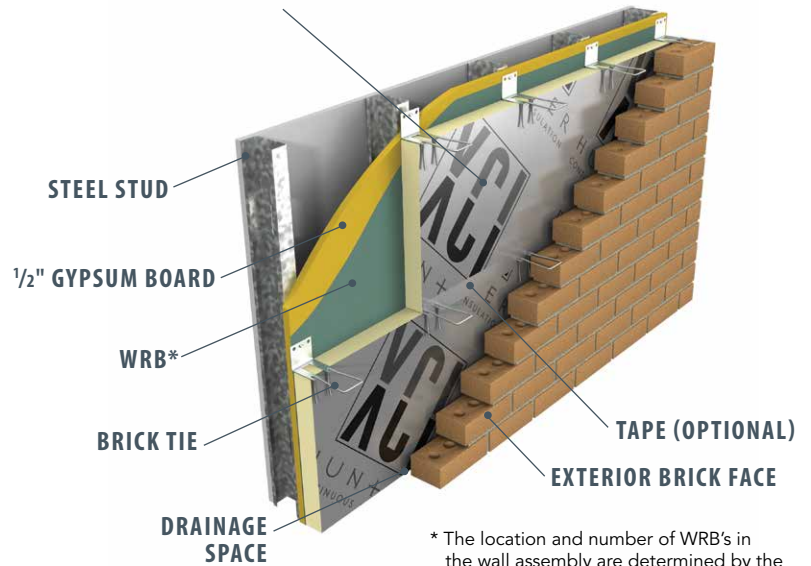
# Hunter Panels Xci Foil

Polyisocyanurate Insulation Manufactured On-Line to Foil Facers

## HUNTER PANELS XCI FOIL

### DESCRIPTION

Xci Foil is a high thermal rigid insulation panel composed of a closed cell polyisocyanurate foam core manufactured on-line to an impermeable foil facing material. It is designed for use in commercial and residential wall applications to provide continuous insulation within the building envelope.



\* The location and number of WRB's in the wall assembly are determined by the architect. **Contact Hunter Panels for a list of approved WRB's for each assembly.**

### 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
- Suitable for masonry cavity wall applications

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

### PANEL CHARACTERISTICS

- Available in two compressive strengths per ASTM C 1289 Type 1, Grade 2 (20 psi) and Grade 3 (25 psi)
- Available 4' x 8' (1220mm x 2440mm) panels in thicknesses of 1" (25mm) – 4" (102mm)
- Other sizes are available upon special request—(for example: 16" or 24" width)

### CODES AND COMPLIANCES

- ASTM C 1289
- IBC Chapter 26 and IRC Section R316
- NFPA 285 passed, contact Hunter Panels for details
- ICC-ESR-3174
- DRJ Technical Evaluation Report 1402-02
- Miami Dade County Product Control Approved
- Numerous UL 263 hourly designs (contact Hunter Panels for details)
- California Title 24
- California Bureau of Furnishings and Home Insulation
- **UL Classified for use in Canada**
  - Refer to UL Director of Products Certified for Canada for more details
- CCMC 13460-L
- CAN/ULC S-704 Type 1, Class 1



### 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·m <sup>2</sup> ))
Water Absorption	ASTM C 209	< 0.05% volume
Service Temperature		-100° to 250° F (-73°C to 122°C)

\*Also available in Grade 3 (25 psi)

### 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: The NFPA 285 fire test is an assembly test. The performance of the WRB must also be considered. Please consult Hunter Panels for details and specifications.

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R-Value Calculation - Cavity Wall Systems Comparison			
	2" Polyiso	2.5" Polyiso	2" XPS
Inside Air Film	.68	.68	.68
8" Concrete Block	1.11	1.11	1.11
Insulation	13.30	17.00	10.00
4" Face Brick	.44	.44	.44
Outside Air Film	.17	.17	.17
<b>Total Design R-Value</b>	<b>15.70</b>	<b>19.40</b>	<b>12.40</b>

## 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. *Note: Xci Foil is not intended for use below grade.*

## INSTALLATION

Install Xci Foil between the concrete block wall and the exterior masonry. Attach insulation panels against the inner wall using construction grade adhesive or mechanical attachment. Xci Foil may also be applied directly to oil based waterproofing adhesives.

## POST-INSTALLATION EXPOSURE

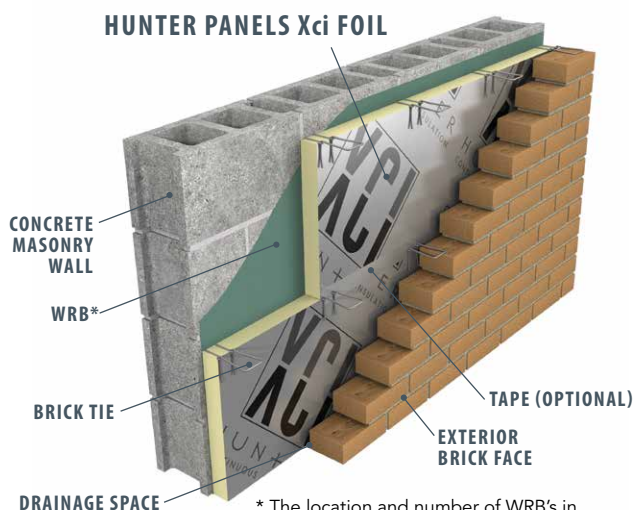
During the time frame between installation of Xci Foil and the application of the finished exterior cladding, it is recommended that a building wrap be applied to the Xci Foil. If a building wrap has not been specified, ALL UNFACED FOAM EXPOSED TO DIRECT DAYLIGHT (i.e. corners, window and door openings) 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, and for storage on-site during phase construction. Outdoor storage for extended periods of time (i.e. in excess of 60 days) require additional breathable waterproof tarpaulins and elevated storage above ground level a minimum of 4".

Xci Foil Thermal Values		
Thickness (inches)	Thickness (mm)	R-Value*
1.00	25	6.5
1.50	38	10.0
2.00	51	13.3
2.50	64	17.0
3.00	76	20.3
3.50	89	24.0
4.00	102	27.0

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



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888.746.1114

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## LEED POTENTIAL CREDITS FOR POLYISO USE

### Energy and Atmosphere

- Optimize Energy Performance

### Materials & Resources

- Building Life-Cycle Impact Reduction
- Environment Product Declaration
- Material Reuse • Recycled Content
- Construction and Demolition Waste Management

### Indoor Environmental Quality

- Thermal Comfort

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