



HUNTER
CONTINUOUS INSULATION

Hunter Panels Xci Ply

Polyisocyanurate Insulation Bonded to Fire Treated Plywood
for Exterior Commercial Wall Applications

HUNTER PANELS Xci PLY



* Please see WRB section for more information

Xci Ply Thermal Values with 5/8" Plywood

Thickness (inches)	Thickness (mm)	R-Value
1.6	41	6.8
2.1	53	9.8
2.6	66	12.9
3.1	79	16.1
3.6	91	19.3
4.1	104	22.5
4.6	117	25.8

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

Xci Ply Thermal Values with 3/4" Plywood

Thickness (inches)	Thickness (mm)	R-Value
1.7	43	7.0
2.2	56	10.0
2.7	69	13.1
3.2	81	16.3
3.7	94	19.5
4.2	107	22.7
4.7	119	26.0

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

Description

Xci Ply is an energy efficient rigid insulation panel composed of a closed cell polyisocyanurate foam core bonded to a premium performance coated glass facer on one side and 5/8" or 3/4" fire treated plywood on the other. It is designed for use in commercial wall applications to provide both continuous insulation and a cladding attachment substrate 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
- A superior combination of high insulating properties and mechanically attachable surface
- Provides improved dimensional stability and fire performance
- Manufactured with NexGen Chemistry: Zero Ozone Depleting Potential (ODP); Contains no CFCs, HCFCs or HFCs; Virtually zero Global Warming Potential (GWP). Use of Xci products helps reduce the carbon footprint of buildings.
- Incorporates APA-TECO Rated Exposure 1 Fire Treated Plywood with flame spread of <25 per ASTM E84

Applications

- Provides continuous insulation (ci) for standard wood frame, FRT wood frame, steel stud, CMU and concrete exterior wall constructions
- Compatible with numerous claddings/finishes including masonry, fiber cement, stucco, terra cotta, mcm, metal, natural stone, stone aluminum, EIFS
- Optimal substrate for mechanically attaching cladding materials
- Can be installed directly to steel studs for certain applications

Panel Characteristics

- ASTM C 1289 Type V made with Type II Class 2 foam
- Available in 4'x8' (1220mm x 2440mm) panels in thickness of 1.6" (39mm) – 4.7" (119mm)
- Available with 5/8" or 3/4" fire treated plywood

Codes and Compliances

- ASTM C 1289
- IBC Chapter 26 & IRC Section R316
- Numerous NFPA 285 compliant assemblies
- Numerous UL 263 hourly designs
- California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1420
- California Bureau of Furnishings and Home Insulation
- **UL Classified for use in Canada**
 - Refer to UL Directory of Products Certified for Canada for more details

Structural

Hunter Xci Ply, up to 2.7" of total thickness, can be used as structural insulating sheathing when applied to wood studs. Please contact Hunter Panels for shear values, wind loads and attachment requirements.

LEED Potential credits for Polyiso use

Energy and Atmosphere

- Optimize Energy Performance

Materials & Resources

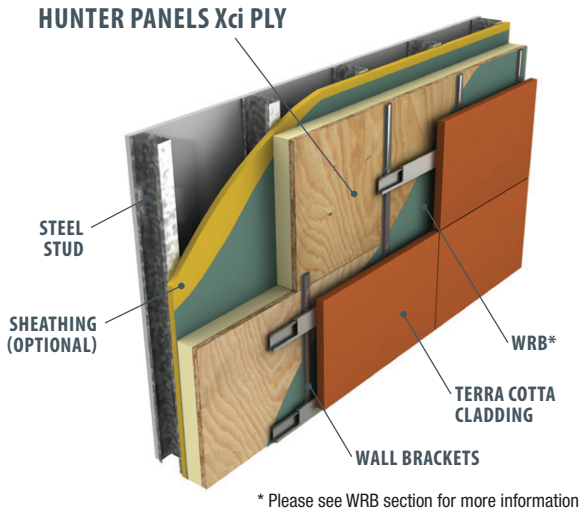
- Building Life-Cycle Impact Reduction
- Environment Product Declaration
- Material Reuse
- 9% Pre-consumer Recycled Content
- Construction and Demolition Waste Management

Indoor Environmental Quality

- Thermal Comfort

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Typical Physical Property Data Chart (polyiso foam core only)

Property	Test Method	Value
Compressive Strength	ASTM D 1621	20 psi* min. (138 kPa, Grade 2)
Dimensional Stability	ASTM D 2126	2% linear change (7 days)
Moisture Vapor Permeance	ASTM E 96	<1 perm (57.5ng/(Pa•s•m ²))
Water Absorption	ASTM C 209	< 0.1% volume
Service Temperature		-100° to 250° F (-73°C to 122°C)
Resistance to Mold	ASTM D 3273	Passed (10)
Flame Spread Index	ASTM E84	<75
Smoke Developed	ASTM E84	<450

*Also available in Grade 3 (25 psi)

Fastening

Several factors are involved in the proper fastening of Xci Ply. These include overall thickness of the panel, the weight of the specified cladding and the type of support provided at the base of the wall assembly. Please contact Hunter Panels for assistance with fastening rate and fastener type.

Post-Installation Exposure

Xci Ply is not intended to be left exposed for extended periods of time. During the time between the installation of the Xci Ply and the application of the exterior cladding it is recommended that the WRB be installed as soon as possible. If the WRB is not being installed right away it is recommended that the Xci Ply be protected from excess moisture and UV. All unfaced foam exposed directly to daylight can be taped with a compatible waterproof tape and the edges of the boards can be buttered with a sealant that is compatible with the WRB.

Weather Resistant Barrier (WRB)

The incorporation of a WRB is a critical element of a wall assembly. Hunter requires a vapor permeable WRB be applied to the wood exterior of Xci Ply. A design professional familiar with local code requirements should specify the selection and placement of any additional WRBs.

Note: For assemblies that require NFPA 285 compliance an approved barrier will need to be selected. 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 Ply 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.

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 Ply is not intended for use below grade.



Hunter Panels | Energy Smart Polyiso | 888.746.1114 | www.hunterpanels.com

New York Illinois Florida Texas Utah Pennsylvania Washington



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