

Understanding the Hunter Xci AEGIS Wall System™

Put the complete Hunter Xci AEGIS System to work for you. Hunter Panels has you covered with a single-source solution of products designed to make your next project come together simply and efficiently. As a leading Innovator of polyiso products, we know what it takes to help you build with confidence.



Hunter Xci AEGIS Wall System Features and Benefits

- Thinner, energy-efficient, code-compliant walls allow for more usable square footage.
- Single source solution provides peace of mind surrounding air, water, and thermal protection.
- Multi-functionality of materials reduces number of trips around the building minimizing installation costs.
- Simplified installation for wall assembly: cladding attaches into OSB or plywood substrate directly over barrier material.
- Systemization ensures compatibility of materials performing key functions within the wall assembly.

The Hunter Xci AEGIS System

Components

Hunter Xci Ply and Xci Ply (Class A)

Xci Ply is an energy efficient rigid insulation panel composed of a closed cell polyiso foam core bonded to a premium performance coated glass facer on one side and 5-ply fire treated plywood on the other.

Xci Ply is ideal for rapid envelope installation. It has been tested within a wide assortment of NFPA 285 compliant assemblies for use in Types I, II, III, and IV buildings. Xci Ply (Class A) is made with <25 flame spread foam core polyiso.

Hunter Xci NB

Xci NB 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 OSB or standard plywood on the other.

Xci NB offers a simple solution for continuous insulation and cladding attachment in Type V construction.

Xci VP-SA WRB

A vapor permeable, self adhering weather resistive barrier designed for use in above grade wall assemblies. It provides protection against air and water intrusion while still allowing for breathability. The dark gray color minimizes visibility in open-joint cladding applications.



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HUNTER
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Technical Information



NTA Report (Fastening Information)

Your guide to attaching Hunter Xci wood composite panels to the structural base wall (wood or steel framing, concrete, CMU) in order to support the cladding system.



TER 1508-01 Structural Applications

This technical evaluation report certifies the shear wall performance of Hunter Panels Xci NB, Xci Ply and Xci Ply (Class A) in certain wood stud applications.



Accessories

Detail Flashing

- Xci FlexShield™: self-adhering flexible flashing membrane for window sills
- Xci VP-SA WRB: slit rolls available for detail areas
- Xci Aluma-Grip 701: foil-faced butyl flashing tape



Primer or Contact Adhesive

- CAV-GRIP
- CAV-GRIP Accessories: hoses, spray nozzles, cleaner

SIP SD/SIP SD-PT

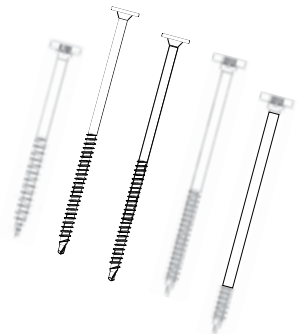
Fastener for installing Xci Ply and NB products into 18–22 gauge steel stud, concrete or CMU walls. SIP/SD-PT is a partial thread fastener for use in particular applications to prevent panel jacking. Pre-drilling is required for concrete and CMU applications.

SIP HD/SIP HD-PT

Fastener for installing Xci Ply and NB products into 12–16 gauge steel stud walls. SIP/HD-PT is a partial thread fastener for use in particular applications to prevent panel jacking.

SIP WD

Fastener for installing Xci Ply and NB products into wood studs. No pre-drilling required.



Individual product data sheets are available for all products in the system. Please refer to the Hunter Panels website for more detailed information.

For more details about this system or for assistance with specifications please contact your local Hunter Xci Sales Rep or one of our Technical Sales Representatives.

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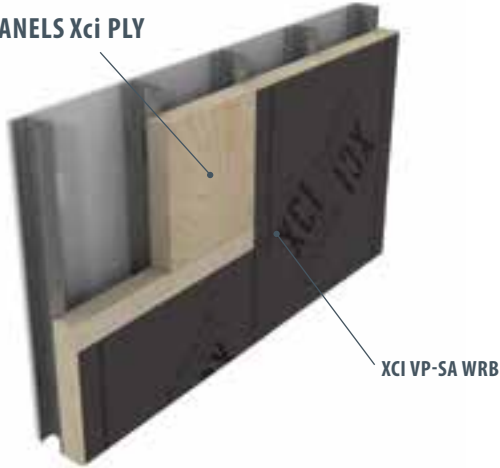


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Hunter Panels Xci VP-SA WRB

Vapor Permeable Self-Adhering Air and Water Resistive Barrier

HUNTER PANELS Xci PLY



Description

Xci VP-SA WRB is a composite membrane designed for use in above-grade wall assemblies to function as a weather resistive barrier. The specially engineered breathable film is fully coated on one side with a permeable adhesive protected with a silicone release liner. The barrier will adhere firmly when pressed against the substrate and will permit the passage of water vapor while performing as a barrier to air and water.

Xci VP-SA WRB is compatible with Hunter Xci polyiso products, the Xci AEGIS Wall System™, and other building materials such as gypsum sheathing, concrete, and CMU. Surface preparation with primer or contact adhesive may be required in certain circumstances.

Features and Benefits

- Composition and low fuel contribution enable use in many NFPA 285 compliant assemblies
- Fully-adhered membrane prevents water migration and air infiltration versus mechanically attached barriers
- Breathable membrane allows passage of water vapor
- Lightweight, self-adhering rolls allow for fast, easy installation
- Printed facer provides easy product identification
- No spray equipment or mil-thickness measurements required



Project Conditions

Building codes and project specifications require continuity of air barrier installation. It is the installer's responsibility to understand the extent and sequencing of air barrier installation on the project. Do not proceed with installation until substrate and project conditions conform to requirements specified in this document. All surfaces accepting Xci VP-SA WRB shall be clean, dry, and of sound condition. Verify that wall assemblies are dried in, such that water intrusion will not occur from above, behind or around the membrane installation. Manage construction-generated moisture by ventilating and de-humidifying the interior. Gaps and cracks exceeding ¼" in width shall be filled with materials and technique approved by Hunter Panels. As Xci VP-SA WRB shall not span any gap in excess of ¼", electrical/mechanical penetrations, structural steel penetrations, columns/beams, expansion/seismic joints, shelf angles, tie-ins to fenestration and transitions to other building assemblies may require extra work and materials to provide suitable surfaces for continuous installation of Xci VP-SA WRB.

Typical Properties

Property	Method	Results
Peel Adhesion	ASTM D903	5 pli typical value applied over DensGlass with recommended primer
Pull-off Adhesion	ASTM D4541, modified 3.75" wood puck	>16 PSI on CMU Dens-Glass and OSB (AF from Primer)
Tear Initiation and Propagation	ASTM D4073	>30 lbf
Surface Burning	ASTM E84	Flame Spread Index - 10 Smoke Spread Index - 5
Water Penetration	ASTM E331	Passes 10 PSF after 15 minutes
Heat Release Measured by Cone Calorimeter	ASTM E1354	Effective Heat of Combustion: 16.82 MJ/kg Peak Heat Release Rate: 183 kW/m ² Total Heat Release: 6.1 MJ/m ²
Color	--	Gray with black print
Nominal Thickness	ASTM D1177	0.023 inch (23 mils)
Fabric Composition	--	Multi-layer Polyester Composite
Adhesive Composition	--	Pressure-sensitive, permeable acrylic, full coverage of fabric
Tensile Strength	ASTM D882	Minimum 40 lbf/in width
Lap Peel Strength	ASTM D1876	1.0 lbf/in width, minimum
Water Resistance to Hydrostatic Pressure	AATCC-127-03, mod. 22" [55 cm] column of water for 5 hours	No leaking through membrane or 2" bonded lap
	ICC-ES AC-38	Pass
Water Vapor Permeance of membrane	ASTM E96 B (Water Method)	10.53 perms, minimum
	ASTM E96 A (Desiccant Method)	9.05 perms, minimum
Water Vapor Permeance of Contact Adhesive [†]	ASTM E96B (water method)	15 Perms, minimum
Air Permeance	ASTM E2178	<=0.001 L/s*m ² @ 75 Pa [0.0002 CFM/ft ² @ 1.57 PSM]
Air Leakage Through Assembly	ASTM E 2357	Maximum 0.017 L/s*m ² @ 75 Pa [0.0034 CFM/ft ² @ 1.57 PSF]
Low Temp Flexibility	ASTM D1970 180° bend over 1" mandrel	No cracking at -20°F
Application Temperature	--	20°F to 180°F

[†]Applied on exterior side of DensGlass Gold. Bare substrate measured 29.75 Perms.

Hunter Panels Xci VP-SA WRB

Vapor Permeable Self-Adhering Air and Water Resistive Barrier

Surface Preparation

Apply contact adhesive, such as CAV-GRIP, as needed to surfaces accepting Xci VP-SA WRB. Follow the application instructions on the contact adhesive product data sheet. If weather conditions are dry and substrate and ambient temperature is 40°F or higher, preparation with contact adhesive can be omitted on wood and gypsum sheathing products and Hunter Xci continuous insulation products including Xci Foil, Xci Foil Class A, Xci CG, Xci CG Class A, Xci Ply, Xci Ply Class A, or Xci NB.

Note: Solvent-based contact adhesives are generally NOT acceptable for use with Xci VP-SA WRB because these contact adhesives are impermeable. Impermeable solvent-based contact adhesives may be used in applications where the vapor-permeable feature of Xci VP-SA WRB is not necessary, such as installation over Xci Foil or Xci Foil (Class A).

Substrates

Foam Sheathing

Sheathing boards shall be flush at joints. Sheathing boards shall also be secured to the structure according to building code and sheathing manufacturer's requirements. Sheathing boards shall be repaired or replaced if inspection reveals moisture damage, mechanical damage or if sheathing boards have exceeded the exposure duration or exposure conditions as required by the sheathing manufacturer. Fill all joints exceeding ¼" in width with approved sealant and strike flush.

Wood Products: OSB, Plywood, FRT Wood, Lumber

Wood sheathing inspection carries the same protocol given for foam sheathing. In addition, moisture content, measured with a wood moisture meter in the core of the substrate, shall be below 20%. Do not cover any wooden materials with Xci VP-SA WRB if moisture content is 20% or more. Do not encapsulate wood (such as blocking/nailers) with Xci VP-SA WRB as this will cause premature rot.

Gypsum Sheathing

Gypsum sheathing inspection follows the same protocol as given for both foam sheathing and wood sheathing. When installing Xci VP-SA WRB over gyp-sheathing with glass-mat facers, coverage rates for contact adhesives and primers will depend on the porosity and texture of the sheathing and can vary substantially by brand. It may be necessary to decrease coverage rate or apply multiple coats. Contact adhesives and primers shall be allowed to dry completely before additional coats are applied or membranes installed. Glass-mat facers can take longer to dry than other substrates and lower temperatures will extend drying time. Multiple adhesion tests should be performed randomly to verify proper application of primer and ensure a successful application.

Concrete

Shall be cured in place for 7 days minimum. It shall be smooth, with sharp protrusions such as form joints ground flush. Honeycomb and holes/cracks exceeding ¼" across in width shall be filled with grout or mortar.

Concrete Masonry Unit (CMU)

Mortar joints shall be struck flush and shall be free of voids exceeding ¼" across. Mortar droppings shall be removed from brick-ties and all other surfaces accepting Xci VP-SA WRB. Mortar joints shall be allowed to cure 3 days minimum prior to installation of Xci VP-SA WRB.

Installation

Install Xci VP-SA WRB in horizontal rows (preferred) or in vertical runs. Wipe dust or debris from film side of product with a clean, dry rag to assist in forming tight laps. Avoid forming wrinkles and air pockets. Press membrane firmly to substrate with a J-roller, especially at laps, corners and terminations. Overlap adjoining pieces of Xci VP-SA WRB a minimum of 3". Use Xci VP-SA WRB strips for detailing. Sequence the installation to provide shingled laps. Membrane shall bear minimum 3" onto each side of transitions such as joints, angle changes and substrate changes. Membrane shall bear 6" minimum onto adjacent membrane systems such as foundation waterproofing or roofing. Install self-adhered flashing details directly to substrate, not to Xci VP-SA WRB. Use self-adhered flashings to wrap window openings, to treat pipe/duct penetrations and to cover expansion joints as shown in Xci VP-SA WRB details. Seal termination of Xci VP-SA WRB onto self-adhered flashings with approved termination sealant. Self-adhered flashings and termination sealants such as Aluma-Grip 701, Dow Corning 758, and Pecora AVB Silicone Sealant are compatible with Xci VP-SA WRB. Dusty conditions and installation temperatures below 40°F may require prepping laps with a contact adhesive such as CAV-GRIP.

Repair and Protection

Repair damage to barrier by removing loosely adhered material and re-covering with Xci VP-SA WRB patch, extending beyond the damage by at least 6" in all directions. Where repair patch is to be installed, clean debris from surfaces of the old Xci VP-SA WRB and prepare with a contact adhesive such as CAV-GRIP. Seal terminations of repair patch with approved flashing or termination sealant. If multiple sheets are used in repair/re-cover, offset seams of new installation from underlying Xci VP-SA WRB by 12" minimum. Xci VP-SA WRB is not intended for permanent outdoor exposure and should be covered as soon as possible after installation, not to exceed 180 days.

Limitations

- Do not allow any sealants or liquid membranes to contact Xci VP-SA WRB except Aluma-Grip 701, Pecora AVB Silicone Sealant, Dow Corning 758 or other product approved by Hunter Panels
- Do not proceed with installation unless ambient and substrate temperature are 20°F or above
- For exterior use only; will not perform as a water resistive barrier in negative side applications
- Do not install below grade, or in areas where ponding water is expected
- Not intended for traffic resistance or as a wearing surface
- Do not install on roofs
- Do not install over un-cured sealants
- 180 day max. UV exposure prior to cladding installation

Packaging

Xci VP-SA WRB Full Rolls
48" X 100' roll, 1 roll/box

Xci VP-SA WRB Slit Rolls

4" X 100' roll, 6 rolls/carton
9" X 100' roll, 2 rolls/carton
12" X 100' roll, 2 rolls/carton

Storage

Store Xci VP-SA WRB in a protected area below 90°F. In cold weather, condition rolls to 50°F or warmer to facilitate use. Shelf life in original, un-opened packaging is 1 year.

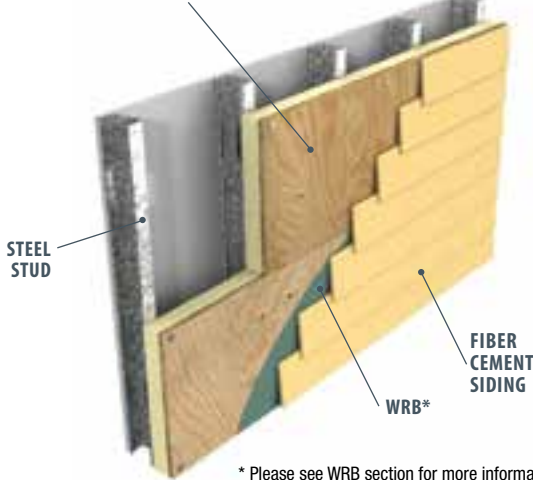


HUNTER
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Hunter Panels Xci Ply

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
- Approved component of the Xci AEGIS Wall System



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

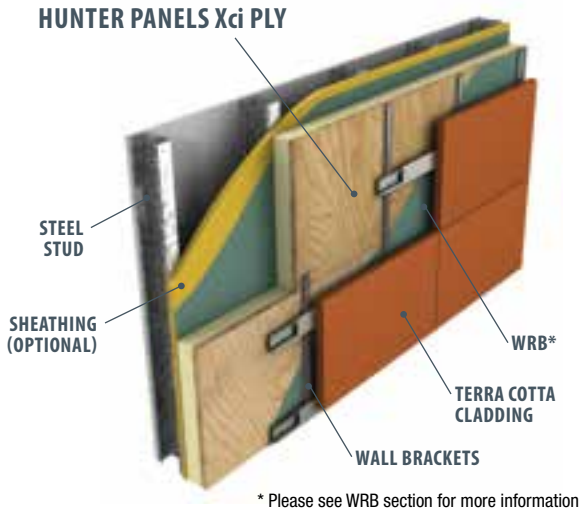
- Building Life-Cycle Impact Reduction
- Environment Product Declaration
- Material Reuse
- 9% Pre-consumer Recycled Content
- Construction and Demolition Waste Management

Indoor Environmental Quality

- Thermal Comfort

Hunter Panels Xci Ply

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



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. A single source option is available: Xci VP-SA WRB. Please contact Hunter Panels for more details on this product.

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.



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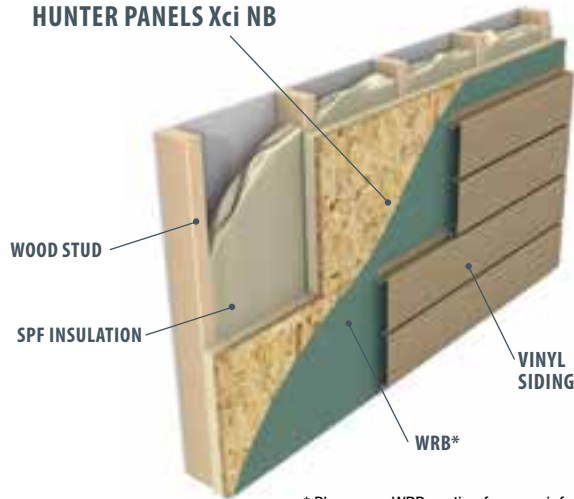




HUNTER
CONTINUOUS INSULATION

Hunter Panels Xci NB

Polyisocyanurate Insulation Bonded to OSB or Plywood
for Exterior Wall Applications in Type V Construction



* Please see WRB section for more information

Xci NB 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 NB Thermal Values with 7/16" OSB

Thickness (inches)	Thickness (mm)	R-Value
1.5	38	6.6
2.0	51	9.6
2.5	64	12.7
3.0	76	15.9
3.5	89	19.1
4.0	102	22.3
4.5	114	25.6

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

Description

Xci NB 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 7/16" or 5/8" OSB or plywood on the other. It is designed for use in Type V commercial and residential 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 nailable 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 OSB or Plywood
- Approved component of the Xci AEGIS Wall System



Applications

- Provides continuous insulation (ci) for standard wood frame, FRT wood frame, steel stud, CMU and concrete exterior wall constructions
- Suitable substrate for numerous claddings/finishes including fiber cement siding, masonry, metal, composite cladding systems, wood clapboards, wood shingles and vinyl siding
- Suitable for new construction and retrofit on commercial and residential exterior walls

Panel Characteristics

- ASTM C 1289 Type V made with Type II Class 2 foam
- Available in 4'x 8' (1220mm x 2440mm) panels in thicknesses of 1.5" (38mm)–4.7" (119mm)
- Available with 7/16" or 5/8" OSB
- Available with 5/8" or 3/4" Plywood

Codes and Compliances

- ASTM C 1289
- IBC Chapter 26 and IRC section R316
- 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 Director of Products Certified for Canada for more details

Structural

Hunter Xci NB, 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

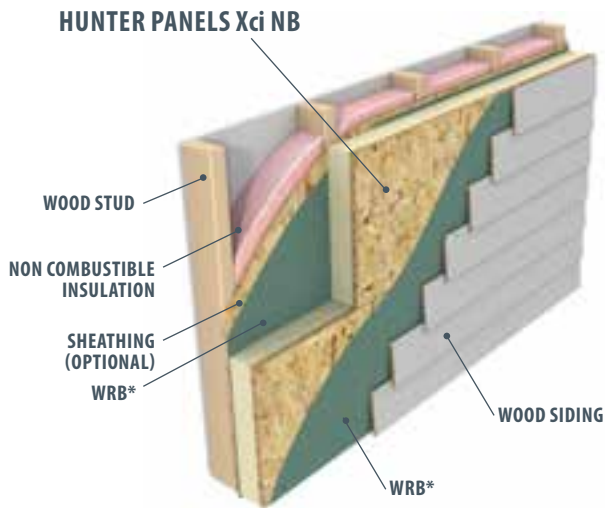
Energy and Atmosphere
• Optimize Energy Performance

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

Hunter Panels Xci NB

Vertical Nailable Polyiso Insulation for Exterior or Interior Commercial Wall Applications



* Please see WRB section for more information

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

Fastening

Several factors are involved in the proper fastening of Xci NB. 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 NB is not intended to be left exposed for extended periods of time. During the time between the installation of the Xci NB 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 NB 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)

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Job-Site Storage

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Note: Xci NB is not intended for use below grade.

