XCI FOIL CLASS A PLUS

Polyisocyanurate Insulation Manufactured On-Line to Foil Facers for Exterior Commercial Wall Applications

TECHNICAL DATA SHEET

Xci Foil Class A Plus is an energy efficient rigid insulation panel composed of a closed cell Class A polyisocyanurate foam core manufactured on-line to an impermeable foil facing material. It is designed for use in commercial wall applications to provide continuous insulation and weather resistive barrier performance within the building envelope.

APPLICATIONS

- Provides continuous insulation (ci) for standard wood frame, FRT wood frame, steel stud, CMU and concrete exterior wall constructions
- Suitable for external ductwork
- Suitable for masonry cavity wall applications
- Contact Hunter Xci for information regarding interior applications that require NFPA 285 compliance.

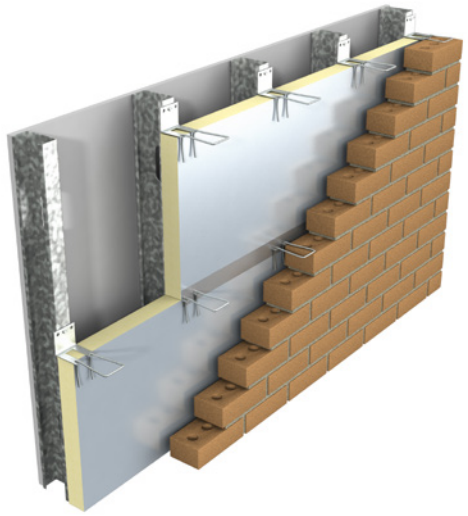
PANEL CHARACTERISTICS

- ASTM C 1289 Type 1, Class 1 and Class 2, 25 psi
- Available 4' x 8' (1220mm x 2440mm) panels in thicknesses of 1" (25mm) – 3" (76mm)
- Other widths/lengths are available upon special request – (for example: 16" or 24" width)
- Zero Ozone Depleting Potential (ODP)
- Contains no CFCs, HCFCs or HFCs
- Virtually Zero Global Warming Potential (GWP)
- Flame spread of <25 per ASTM E 84
- Provides R-Values from 6.6 to 20.0 in a single layer

XCI FOIL CLASS A PLUS THERMAL VALUES

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

Thickness		R-Value
(inches)	(mm)	
1.00	25	6.6
1.60	41	10.4
2.00	51	13.0
2.50	64	16.5
3.00	76	20.0



LEED POTENTIAL CREDITS FOR POLYISO USE

Energy and Atmosphere

- Optimize Energy Performance

Materials & Resources

- Building Life-Cycle Impact Reduction
- Environment Product Declaration
- Material Reuse
- 13% Pre-consumer Recycled Content
- Construction and Demolition Waste Management

Indoor Environmental Quality

- Thermal Comfort

INSTALLATION

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

POST-INSTALLATION EXPOSURE

During the time frame between installation of Hunter Xci Foil Class A Plus and the application of the finished exterior cladding, it is recommended that a building wrap be applied to the Hunter Xci Foil Class A Plus. 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. Hunter Xci Foil Class A Plus 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 Xci for details.

TYPICAL PHYSICAL PROPERTY DATA

Physical Property	Test Method	Value
Compressive Strength	ASTM D1621	25 psi minimum (138 kPa, Grade 3)
Dimensional Stability	ASTM D2126	1.5% max. linear change (7 days)
Moisture Vapor Permeance	ASTM E96	less than/equal to 0.1 perm (2.875ng/(Pa•s•m^2))
Water Absorption	ASTM C 209	less than/equal to 0.1% volume
Service Temperature		-100° to 250°F (-73°C to 122°C)
Flame Spread Index (foam core)	ASTM E 84	< 25
Smoke Developed (foam core)	ASTM E 84	< 450
Recycled Content		13% pre-consumer

CODES AND COMPLIANCES

- ASTM C 1289
- IBC Chapter 26 and IRC Section R316
- Numerous NFPA 285 compliant assemblies
- DRJ Technical Evaluation Report 1402-01
- California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1420
- CAN/ULC S-704 Type 3, Class 1

WEATHER RESISTANT BARRIER

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 Xci for details and specifications.

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 Xci Foil Class A Plus 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 Xci 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 Xci for more specific details.

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