

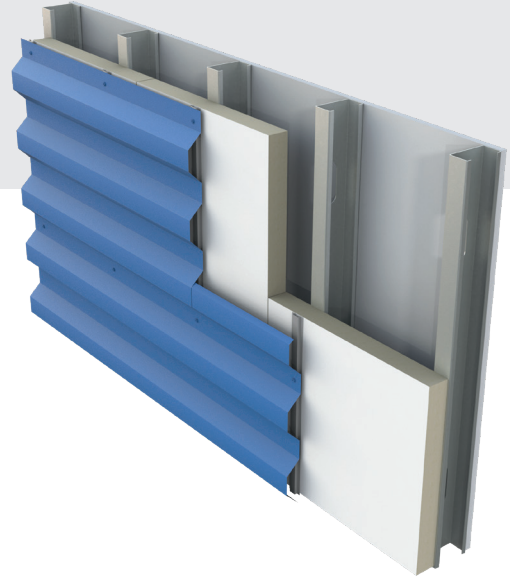
PAC-Shield CI Coated Glass (Class A)

Continuous Insulation



Polyisocyanurate Insulation with a Class A Foam Core Manufactured On-line to Coated Glass Facers for Exterior Commercial Wall Applications

PAC-Shield CI Coated Glass (Class A) is an energy efficient rigid insulation panel composed of a closed cell Class A polyisocyanurate foam core manufactured on-line to premium performance coated glass facer with a light color facer on one side of the board and a dark color facer on the other side. It is designed for use in commercial wall applications to provide continuous insulation within the building envelope.



APPLICATIONS

- ▶ Can be installed directly on steel studs in a variety of wall assemblies without the need for gypsum sheathing
- ▶ 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 metal, masonry, fiber cement, stucco, terra cotta, mcm, and natural stone
- ▶ Underslab, below-grade and sandwich panel applications
- ▶ **Darker color may be desired behind certain claddings and/or joint systems. Note:** PAC-Shield CI Coated Glass (Class A) is not suitable for exposed interior

PANEL CHARACTERISTICS

- ▶ **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.
- ▶ Superior fire performance, durability, dimensional stability, and resistance to mold growth
- ▶ Polyiso offers increased R-value per inch vs mineral fiber, XPS or EPS options
- ▶ ASTM C 1289 Type II, Class 2, Grade 3 (25 psi)
- ▶ Available in 4' x 8' (1220mm x 2440mm) panels in thickness of 1" (25mm) – 4" (102mm)
- ▶ Other widths/lengths are available upon special request

THERMAL VALUES

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

	Thickness		R-Value
	(inches)	(mm)	
	1.00	25	6.0
	1.50	38	9.0
	2.00	51	12.1
	2.50	64	15.3
	3.00	76	18.5
	3.50	89	21.7
	4.00	102	25.0

POTENTIAL LEED® 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

INSTALLATION

- ▶ PAC-Shield CI Coated Glass (Class A) is not a structural sheathing; exterior cladding must be attached through to the framing
- ▶ Always follow local codes for structural bracing
- ▶ Refer to local codes and practices for placement of the WRB in the wall assembly
- ▶ Follow cladding manufacturer's recommendation for attachment requirements
- ▶ Insulation installation may require separate fasteners or adhesives depending on the exterior cladding attachment
- ▶ Adhesives can be used for attachment to CMU, gypsum and concrete
- ▶ Metal furring strips can be installed on the exterior, fastened through the insulation to the structural wall to create a drainage plane
- ▶ PAC-Shield CI Coated Glass (Class A) is compatible with most construction grade adhesives, sealants, caulks, tapes, and spray foams

POST-INSTALLATION EXPOSURE

During the time frame between installation of PAC-Shield CI Coated Glass (Class A) and the application of the finished exterior cladding, it is recommended that a building wrap be applied to the PAC-Shield CI Coated Glass (Class A). 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. PAC-Shield CI Coated Glass (Class A) is not intended to be left exposed for extended periods of time (i.e. in excess of 60 days) without adequate protection. Please contact PAC-CLAD for details.

TYPICAL PHYSICAL PROPERTY DATA

Physical Property	Test Method	Value
Compressive Strength	ASTM D 1621	25 psi minimum (172 kPa, Grade 3)
Dimensional Stability	ASTM D 2126	2% linear change (7 days)
Moisture Vapor Permeance	ASTM E 96	<1.2 perm (57.5ng/(Pa-s-m ²))
Air Permeance	ASTM E 2178	<0.001 L(s.m ²) at 75 Pa
Impact Resistance (Janka Ball Test)	ASTM D 1037	15
Water Absorption	ASTM C 209	<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	< 250
Recycled Content		9% pre-consumer

CODES AND COMPLIANCES

- ▶ Flame Spread of <25 per ASTM E 84
- ▶ Provides R-values from 6.0–25.0 in a single layer
- ▶ Designed for use in continuous insulation to assist in meeting the most current ASHRAE 90.1, IECC, IBC and IRC standards
- ▶ ASTM C 1289
- ▶ IBC Chapter 26 and IRC Section R316
- ▶ Numerous NFPA 285 compliant assemblies

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 location of a proposed WRB. PAC-CLAD polyiso products have been tested and/or evaluated for NFPA 285 compliance with a wide assortment of WRB products. If a single-source solution is desired, PAC-CLAD offers Xci VP-SA WRB, a vaporpermeable self-adhering WRB option.

Note: The NFPA 285 fire test is an assembly test. The performance of the WRB must also be considered. Please consult PAC-CLAD 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 PAC-Shield CI Coated Glass (Class A) 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. PAC-CLAD 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 PAC-CLAD for more specific details.

