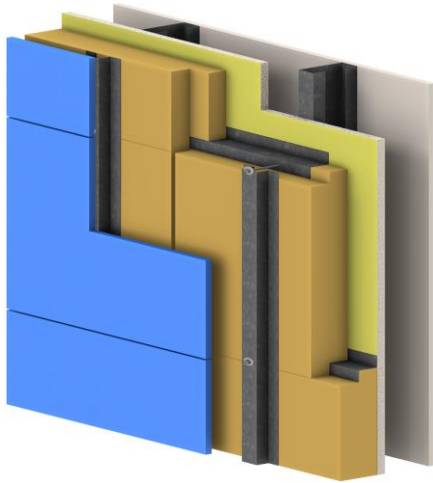


# purBoard™



purBoard™ is a patent pending modular wall panel system product that provides both a vapour/air barrier and high thermal insulation values for an outside and inside walls using a built in z-bar system and external hat track for fastening external cladding without thermal bridging.

purBoard provides:

- Ease of installation
- Continuous insulation
- Medium density spray foam insulation
- CCMC certified products

Using 2 lb medium density polyurethane insulation, the purBoard panel provides:

- Tested Air barrier system,
- CCMC 13583-R.
- “Type 2” classification for high R-Value in Canada
- High Compressive Strength

Applications:

- New Construction
- Retrofits

## LEED Credit Potential

- LEED Credit Category–Energy & Atmosphere  
Prerequisite2–Minimum Energy Performance  
Credit1–Optimize Energy Performance
- LEED Credit Category–Materials & Resources  
Credit2–Construction Waste Management
- Credit5.1–5.2–Regional Materials  
Credit6–Rapidly Renewable Materials

Thermal Value	Overall purBoard Assembly Thickness *
R12	5 inches
R20	6 inches
R30	7.5 inches

\* includes panel, z-bar and hat track system

## References

1. UL-790/ASTM E-108 Class A Fire Resistance Rating.
2. ASTM D 1621: Standard Test Method for Compressive Properties Of Rigid Cellular Plastics,
3. ASTM D 1622: Standard Test Method for Apparent Density of Rigid Cellular Plastics;
4. ASTM D 2126: Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging;
5. ASTM E 96: Standard Test Methods for Water Vapor Transmission of Materials, Procedure A: desiccant method

## Technical Specifications

Property	Testing	Test Method
Compressive Strength	282 kPa (42 psi)	ASTM D1621
Tensile Strength	406 kPa (59 psi)	ASTM D1621
Water Absorption	< 3%	ASTM D2842
R value per inch	R6	CAN/ULC-S770
Air Permanence	0.0005	
Water Vapor Permanence (for 1 inch)	58ng/PAsm <sup>2</sup>	ASTM E96

### FOR ARCHITECT'S USE ONLY:

Accepted  Accepted as Noted  Not Accepted

By: \_\_\_\_\_

Date: \_\_\_\_\_

## MANUFACTURERS

- a. Acceptable Manufacturer: Mod-Panel Inc., which is located at: 6918 34 Street NW Edmonton, Alberta, CA T6B TXT; Email: (info@spraysulate.ca); Web: www.mod-panel.com

## PANEL MATERIAL GENERAL

- a. Factory constructed 50 inch x 98 inch wall panel
- b. Effective R value: R12 {R20} (R30)
- c. Acceptable Material: Mod-Panel PB-100

## FASTENING

- a. Follow fastening pattern of hat track and z-bars as per manufacturer's recommendations.

## VAPOR BARRIER SEALANT:

- a. Synthetic and rubber sealant
- b. Wide service temperature range of -40°C (-40°F) to 120°C (250°F)
- c. Acceptable Material: LePage PL Acousti-Seal Vapour Barrier Sealant

## PREPARATION:

- a. Coordinate with Architect regarding cladding attachment requirements to wall panel hat track system.
- b. Remove water, snow, ice or frost and clean of dust and debris.
- c. Examine substrates for conditions affecting installation and performance wall panels. Proceed with installation only after unsatisfactory conditions have been corrected.
- d. Protect materials from damage from transit, handling, storage and installation. Place materials on pallets or raised platforms and fully protect from moisture.

## SAFETY REQUIREMENTS:

- a. Comply with requirements of Provincial/Territorial Occupational Health and Safety Requirements
- b. Comply with requirements of Workplace Hazardous Materials Information System (WHMIS)

## INSTALLATION SPF PANEL:

- a. Verify number of panels required prior to panels arriving to site.
- b. Ensure all surfaces are clean and straight prior to installing the panel.
- c. Mark line on edge of bottom of wall and fasten first panel level to the wall through the first z-bar adhered to panel.
- d. Slide next panel by ship lap and fasten top lap joint into z-bar located behind the top panel.
- e. Seal lap joint with LePage Acousti-Seal caulking prior to installing lap joints together to provide continuous vapor barrier
- f. Fasten panel as per panel fastening pattern using approved self-tapping metal screws provided by manufacturer.
- g. Stagger panels to ensure that vertical joints do not line up.
- h. Install hat track system over top of horizontal panel to make watertight as per manufacturer recommendations.

## OPENINGS

- a. Coordinate with mechanical Contractor/Engineer for location of penetration prior to installing panel.
- b. Install self-adhered waterproofing membrane to wall openings and transitions as indicated by manufacturer's recommendations. Fill in voids using spray foam insulation.