POLYLAM®

OSB-Laminated EPS Insulation Panel

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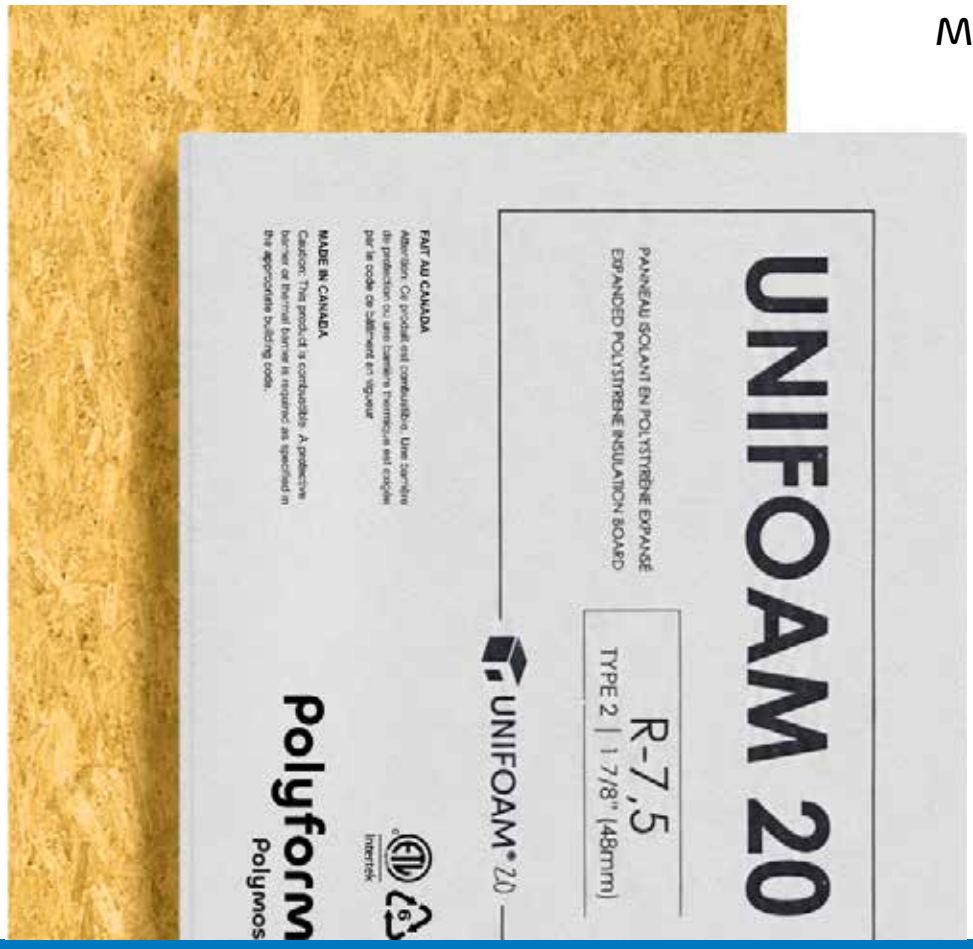
POLYLAM®

DESCRIPTION

POLYLAM® Wall Panels are insulated composite panels designed for exterior wall applications. They combine a 7/16-inch perforated OSB panel with a 7/8-inch Type 2 expanded polystyrene (EPS) insulation layer, providing both continuous thermal insulation and structural shear bracing. They are well suited for residential construction, light commercial projects, and energy retrofit applications requiring improved building envelope performance.

PolyLam® panels help reduce thermal bridging while simplifying installation through their 2-in-1 design. Their rigid surface allows for the application of weather-resistant barriers and a wide variety of exterior cladding systems. Compatible with both new construction and renovation projects, they provide an effective solution for improving energy efficiency while ensuring the structural stability of exterior walls.

Made in Canada



POLYLAM®

FEATURES

Residential, Commercial, and Institutional Construction

Continuous insulation and structural shear bracing in a single installation step.

Designed for exterior walls in both new construction and energy retrofit projects.

Reduces thermal bridging and improves the overall performance of the building envelope.

Compatible with most weather-resistant barriers, exterior cladding systems, and rainscreen wall assemblies.

Installation requires a Vapour barrier on the interior side and a weather-resistant barrier (air/water barrier) on the exterior side to ensure optimal moisture management and airtightness.

Rigid surface facilitates the attachment of exterior cladding systems, enabling fast and efficient installation.



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TECHNICAL DATA SHEET OF THE EPS PANEL

UNIFOAM® 2.0

EPS Physical Properties	ASTM Test Method	ULC S701 Type 2
Thermal resistance 1 in (25mm) hr·°F·pi²/BTU (m^2·°C/W)	C-518	**Min : 4,0 Min : (0,70)**
Water vapour permeability US Perm. (ng/Pa·s·m^2)	E-96	**Max : 3,5 Max : (200)**
Dimensional stability (%)	D-2126	**Max : 1,5**
Flexural strength lb/in² (kPa)	C-203	**Min : 35 Min : (240)**
Water absorption (%)	D-2842	**Max : 4,0**
Compressive properties lb/in² (kPa)	D-1621	**Min : 16 Min : (110)**
Limiting oxygen index (%)	D-2863	**Min : 24**
The maximum continuous service temperature °F (°C) is 167 (75). The maximum intermittent service temperature °F (°C) is 180 (82,2). The coefficient of thermal expansion in/in/°F (mm/mm/°C) is 3,5 x 10-5 (6 x 10-5c-1) as per ASTM D-696 method.		

AVAILABLE SIZES

Standard dimensions
• 4 ft × 9 ft (1219 mm × 2743 mm) standard size

• 4 ft × 8 ft (1219 mm × 2438 mm)

• Other lengths and configurations available upon request

Overall thickness: 1-5/16 in. (33.3 mm)

Composition: 7/8 in. Type 2 EPS laminated to 7/16 in. perforated OSB

Other sizes can be manufactured to meet project requirements.

ISO 9001:2015
Certified quality management system ISO 9001:2015.

The expanded polystyrene used to manufacture POLYLAM® is Intertek certified (ETL Listed) in accordance with **ULC S701.**

Warning

Flammable: interior applications require a protective barrier.

All installations must comply with the National Building Code. The information and suggestions contained in this brochure are provided solely for informational purposes and are offered in a spirit of collaboration. To our knowledge, we believe the information presented can be considered reliable. This brochure shall not constitute, in any case, a REPRESENTATION or a WARRANTY either EXPRESS or IMPLIED, either in terms of the information, data and suggestions included, or with respect to the absence or violation of any patent or other rights of third parties. Any proposed applications must be evaluated beforehand according to the application context and must, as a result, be adapted or modified to suit local conditions and materials if necessary.

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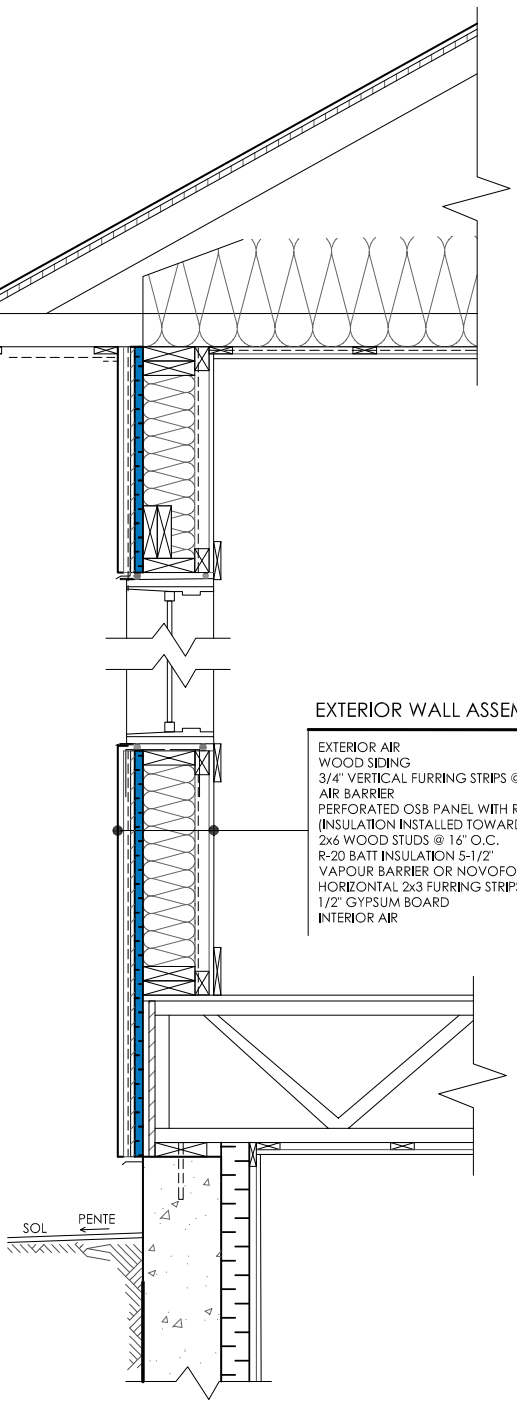
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EXTERIOR WALL ASSEMBLY

EXTERIOR AIR
WOOD SIDING
3/4" VERTICAL FURRING STRIPS @ 16" O.C.
AIR BARRIER
PERFORATED OSB PANEL WITH R-4 INSULATION 1-5/16"
(INSULATION INSTALLED TOWARD INTERIOR)
2x6 WOOD STUDS @ 16" O.C.
R-20 BATT INSULATION 5-1/2"
VAPOUR BARRIER OR NOVOFOIL R-1.94 1/2"
HORIZONTAL 2x3 FURRING STRIPS @ 16" O.C.
1/2" GYPSUM BOARD
INTERIOR AIR

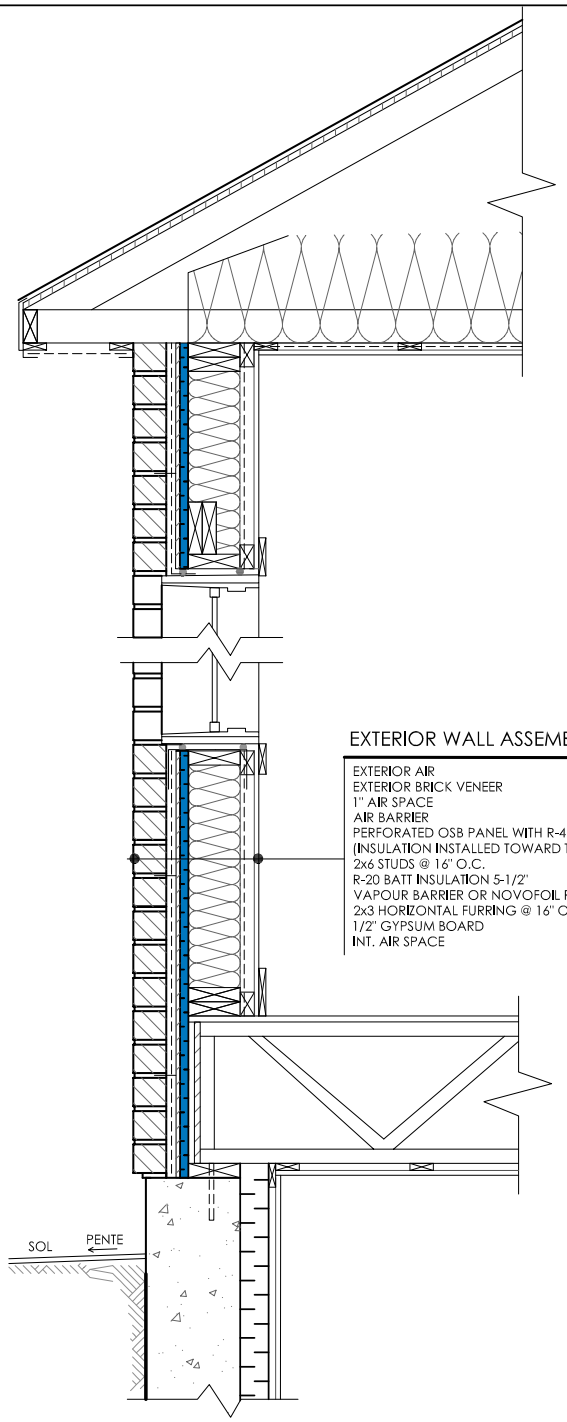
Polyform

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THE INFORMATION PROVIDED IN THIS DRAWING ILLUSTRATES A TYPICAL APPLICATION OF OUR PRODUCTS. IT REPRESENTS ONE CONSTRUCTION METHOD BASED ON ACCEPTED BUILDING PRACTICES AND IN COMPLIANCE WITH THE NATIONAL BUILDING CODE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THIS APPLICATION IS APPROPRIATE FOR THEIR SPECIFIC PROJECT AND SITE CONDITIONS.

DESCRIPTION	WALL SECTION – PANEL INSTALLATION OSB-LAMINATED INSULATED PANEL WITH SIDING FINISH
PRODUCT	POLYLAM
SACLE	3/4"=1'-0"
DATE	07/07/2026
NO.	9.01

POLYLAM®



EXTERIOR WALL ASSEMBLY

EXTERIOR AIR
EXTERIOR BRICK VENEER
1" AIR SPACE
AIR BARRIER
PERFORATED OSB PANEL WITH R-4 INSULATION 1-5/16"
(INSULATION INSTALLED TOWARD THE INTERIOR SIDE)
2x6 STUDS @ 16" O.C.
R-20 BATT INSULATION 5-1/2"
VAPOUR BARRIER OR NOVOFOIL R-1.94 1/2"
2x3 HORIZONTAL FURRING @ 16" O.C.
1/2" GYPSUM BOARD
INT. AIR SPACE

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DESCRIPTION	WALL SECTION – PANEL INSTALLATION OSB-LAMINATED INSULATED PANEL WITH BRICK FINISH
PRODUCT	POLYLAM
SCALE	3/4"=1'-0"
DATE	07/07/2026
NO.	9.02