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ISOMAX®
Integral

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APPLICATION CHART

PRODUCTS	UNDER the concrete slab	ON the concrete slab	Footing system	Interior foundation wall	Exterior foundation wall	Interior wall	Exterior wall	Ceiling	Roof
UNIFOAM®									
UNIFOAM® <i>inSert</i>									
NOVOFOIL®									
AIRCLAD®									
ISOMAX®									
ISOMAX® <i>integral</i>									
ekōsteps® sous-couche isolante									
POLYROC®									
POLYLAM®									
HYDROFOAM®									

OUR EXPERTISE

Our company

CANADIAN LEADER FOR
OVER 50 YEARS

Polymos

DRIVING EXPANSION

Founded in 1969 on the west side of Montreal, Groupe Polymos is a leader in the North American expanded plastics industry. Our solutions are based on three major families of expandable resins: EPS (expanded polystyrene), EPP (expanded polypropylene) and EPE (expanded polyethylene). These materials offer a wide range of distinct characteristics.

We work as a team with our customers and all our employees. We pool our know-how in product and process engineering to offer innovative, sustainable solutions that help make everyone's ambitions a reality.

Driving expansion - that's what we offer you.

Polyform, a Groupe Polymos brand, is renowned for its innovative, high-performance insulation solutions. We are committed to supplying high-quality expanded polystyrene products, adapted to the varied requirements of the construction industry.

Our product range includes solutions for thermal insulation, as well as protective and structural materials. Whether for residential, commercial or institutional projects, we have the products you need to ensure optimum energy efficiency and superior performance.

In addition to our extensive catalog of standard products, we offer specialized engineering, cutting and laminating services. These services enable us to create tailor-made solutions, perfectly adapted to your specific needs.

ENVIRONMENT

An Action Plan for Sustainable Development

The environmental division of the Polymos Group, Polyvert, recovers and recycles expanded polystyrene (EPS) and polypropylene (PP). Using state-of-the-art technology, Polyvert transforms these materials into recycled resins used in the manufacture of expanded plastics, rigid plastic components, and new raw materials.



Polyvert

Since 2012, Polyvert has been developing large-scale recycling solutions. Its first facility quickly reached an annual processing capacity of 5,000,000 kg. In 2017, a second facility tripled that capacity, reinforcing the Polymos Group's commitment to a more circular and sustainable economy.



ENVIRONMENT

The **Polyvert** recycling process

1

Collection

Collection of post-industrial plastic materials

2

Processing

Sorting, shredding, and melting of plastics

3

Distribution

Sale of our recycled materials to our partners



ENVIRONMENT

IMPORTANT FACTS

Expanded plastic products, i.e. expanded polystyrene (EPS), expanded polypropylene (EPP), expanded polyethylene (EPE) or other copolymers, **do not and never have contained chlorofluorocarbons (CFCs).**

Unfortunately, the above-mentioned products have fallen victim to generalization and have been confused with other extruded insulation products.

Expanded plastic foam is inert; it is harmless to environment, does not pollute waters, and is not a nutritive medium for micro-organisms. Additionally, they do not rot and do not contribute to the growth of mould. And of course, they are 100% recyclable!



LEED®

Insulation boards manufactured by The Polymos Group, under the Polyform brand, can help earn points in a LEED® project.

For more information on this subject, do not hesitate to contact your representative or an expert from Polyform at 1.855.765.9667 or at sac@polymos.com.



UNIFOAM®

Custom-Cut Insulation Panel

UNIFOAM®

DESCRIPTION

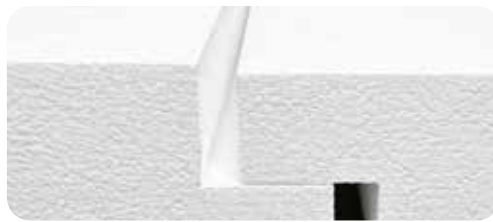
Customized hot wire cut insulation board

- Several densities : type 1, type 2, and type 3
Other densities available upon request
- Square cut boards
- Many dimensions for insulation, lightweight fill enbankment, lettering, etc.



SQUARE CUT

Any thickness



SHIPLAPPED CUT

Thicknesses of 1 in (25 mm) and more



DRAINAGE CUT

Thicknesses of 1 in (25 mm) and more



INSERT CUT

Thicknesses of 1 in (25 mm) and more



TONGUE AND GROOVE CUT

Thicknesses of 1 in (25 mm) and more



Made in Canada

UNIFOAM®

PRODUCT FEATURES

APPLICATIONS

Residential, Commercial, Industrial, and Institutional Construction

- Insulation for interior and exterior walls
- Insulation for interior and exterior foundation walls
- Insulation under and above the concrete fill
- Insulation for roofs
- Insulation for ceilings

ADVANTAGES

Superior Performance

- Precisely meets project requirements
- Lightweight and easy to handle
- Performance exceeds ULC requirements
- Permanent insulation value
- Energy savings through elimination of thermal bridges
- 100% recyclable
- Can be handled without health hazards and is non-irritating to skin

UNIFOAM 20

Panneau isolant en polystyrène expansé
Expanded polystyrene insulation board

R-4.0
TYPE 2 | 1" (25mm)

 UNIFOAM® 20

Fait au Canada

Attention: Ce produit est combustible. Une barrière de protection ou une barrière thermique est exigée par le code de bâtiment en vigueur
CANULC S791

Made in Canada

Caution: This product is combustible. A protective barrier or thermal barrier is required as specified in the appropriate building code.
CANULC S791



Polyform
Polymos

UNIFOAM 20

Panneau isolant en polystyrène expansé
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CANULC S791

Poly

TECHNICAL DATA SHEET



EPS Physical Properties	ASTM Test Method	ULC S701 Type 1	ULC S701 Type 2	Type 2 HD
Thermal resistance 1 in (25mm) hr·°F·ft ² /BTU (m ² ·°C/W)	C-518	Min : 3,7 Min : (0,65)	Min : 4,0 Min : (0,70)	Min : 4,15 Min : (0,73)
Water vapour permeability US Perm. (ng/Pa·s·m ²)	E-96	Max : 5,25 Max : (300)	Max : 3,5 Max : (200)	Max : 3,5 Max : (200)
Dimensional stability (%)	D-2126	Max : 1,5	Max : 1,5	Max : 1,5
Flexural strength lb/in ² (kPa)	C-203	Min : 25 Min : (170)	Min : 35 Min : (240)	Min : 38 Min : (262)
Water absorption (%)	D-2842	Max : 6,0	Max : 4,0	Max : 2,0
Compressive properties lb/in ² (kPa)	D-1621	Min : 10 Min : (70)	Min : 16 Min : (110)	Min : 27 Min : (186)
Limiting oxygen index (%)	D-2863	Min : 24	Min : 24	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 ⁻⁵) as per ASTM D-696 method.				

AVAILABLE SIZES

Standard dimensions of:

2 ft x 4 ft (610mm x 1219mm)

4 ft x 4 ft (1219mm x 1219mm)

2 ft x 8 ft (610mm x 2438mm)

4 ft x 8 ft (1219mm x 2438mm)

Other dimensions and densities available upon request.

ISO 9001:2015

Certified quality management system ISO 9001:2015.



The expanded polystyrene used to manufacture UNIFOAM® 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.

TECHNICAL DATA SHEET



EPS Physical Properties	ASTM Test Method	ULC S701 Type 3	Type 3 HD
Thermal resistance 1 in (25mm) hr·°F·ft ² /BTU (m ² ·°C/W)	C-518	Min : 4,2 Min : (0,74)	Min : 4,26 Min : (0,75)
Water vapour permeability US Perm. (ng/Pa·s·m ²)	E-96	Max : 2,25 Max : (130)	Max : 2,25 Max : (130)
Dimensional stability (%)	D-2126	Max : 1,5	Max : 1,5
Flexural strength lb/in ² (kPa)	C-203	Min : 44 Min : (300)	Min : 70 Min : (482)
Water absorption (%)	D-2842	Max : 2,0	Max : 1,3
Compressive properties lb/in ² (kPa)	D-1621	Min : 20 Min : (140)	Min : 46 Min : (317)
Limiting oxygen index (%)	D-2863	Min : 24	Min : 24
The maximum continuous 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 ⁻⁵ c-1) as per ASTM D-696 method.			

AVAILABLE SIZES

Standard dimensions of :

- 2 ft x 4 ft (610mm x 1219mm)
- 4 ft x 4 ft (1219mm x 1219mm)
- 2 ft x 8 ft (610mm x 2438mm)
- 4 ft x 8 ft (1219mm x 2438mm)

Other dimensions and densities available upon request.

UNIFOAM® 40 meets the #14301 MTQ requirements.

ISO 9001:2015

Certified quality management system ISO 9001:2015.

Warning

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UNIFOAM®



Part 1 General

1.1 SUMMARY OF WORK

.1 Section Content:

- .1 Insulation of slabs on ground and perimeter foundation walls.
- .2 Insulation of certain portions of exterior walls.

.2 Related Sections:

- .1 Cast-in-place concrete, structure.
- .2 Excavation and backfilling, structure.
- .3 Protective Panels, Section 06 10 00.
- .4 Sheet Air Barrier, Section 07 27 19.
- .5 Mattress insulation, section 07 21 16.
- .6 Spray insulation, section 07 21 19.
- .7 Metal cladding, section 07 46 13.

1.2 REFERENCES

Latest editions of the following standards:

- .1 American Society for Testing and Materials International (ASTM)
 - .1 ASTM E96/E96M, Standard Test Methods for Water Vapor Transmission of Materials.
- .2 Canadian General Standards Board (CGSB)
 - .1 CGSB 71GP24M, Flexible Adhesive for Expanded Polystyrene Insulation.
- .3 Underwriters' Laboratories of Canada (ULC)
 - .1 CAN/ULCS701, Standard for Polystyrene Thermal Insulation, Panels and Pipe Coverings.

1.3 DOCUMENTS/SAMPLES TO BE SUBMITTED

.1 Data sheets

- .1 Submit the required data sheets and the manufacturer's specifications and documentation for the products.

1.4 QUALITY ASSURANCE

- .1 Test Reports: Submit test reports certifying that products, materials and equipment meet the requirements for physical characteristics and performance criteria.
- .2 The company's quality control system is governed by ISO 9001.

Part 2 Products

2.1 SUSTAINABLE DEVELOPMENT

- .1 Materials/materials and products: in accordance with section [01 47 15 - Sustainable Development - Construction].
- .2 The sustainable development requirements for monitoring shall be in accordance with section [01 47 17 - Sustainable Development - Control] and shall address the following:
 - .1 Materials, materials and resources.
 - .2 Collection and storage of recyclable materials and materials.
 - .3 Construction waste management.
 - .4 Reuse/reuse of resources.
 - .5 Recycled content.
 - .6 Local/regional materials and equipment.
 - .7 Low-emitting materials and equipment.
- .3 Expanded polystyrene panels can contribute to LEED credits.

2.2 INSULATION

- .1 UNIFOAM®10, expanded polystyrene (EPS) panels: conforms to CAN/ULC-S701.

.2 UNIFOAM®20, expanded polystyrene (EPS) panels: Meets CAN/ULC S701.

.3 UNIFOAM®25 expanded polystyrene (EPS) panels: CAN/ULCS701 compliant.

.4 UNIFOAM®30 expanded polystyrene (EPS) panels: CAN/ULCS701 compliant.

.5 UNIFOAM®40 expanded polystyrene (EPS) panels: CAN/ULCS701 compliant.

2.3 ADHESIVES

- .1 Adhesive (for polystyrene insulation): solvent-free, manufacturer's recommended type.

2.4 ACCESSORIES

- .1 Fasteners: [nails] [screws] of the corrosion-resistant type, of a length required to penetrate the structure by at least 25 mm; back-up washers of at least 25 mm in diameter.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: Comply with the manufacturer's written requirements, recommendations and specifications, including technical bulletins and installation instructions specified in product catalogues and packaging cartons, as well as the indications in the technical data sheets.

3.2 QUALITY OF WORK

- .1 Install insulation on dry substrate only.

- .2 Install insulation to provide continuous thermal protection to building components and spaces.
- .3 Carefully adjust insulation around electrical boxes, fixtures, ducts, air ducts, exterior doors and windows, and other protruding elements.
- .4 Leave a minimum of 75 mm between the insulation and any heat-emitting elements, such as recessed lighting fixtures, and at least 50 mm between the insulation and the walls of Type A chimneys that meet CAN4S604 standards and Type B and/or L exhaust ducts that meet CAN/CGAB149.1 and CAN/CGAB149.2].
- .5 Carefully cut and trim the insulation so that it fully occupies the open spaces. Make tight joints and stagger vertical joints. Use only insulation boards with no chipped or broken edges. Use the largest possible panel size to minimize the number of joints.
- .6 If multiple layers of insulation are to be installed, stagger the vertical and horizontal joints.
- .7 Do not cover the insulation until the installation has been inspected and approved by the architect.

3.3 MEDIA VERIFICATION

- .1 Check the substrate on which the insulation will be installed and immediately inform the architect in writing of any defects found.
- .2 Before starting the work, make sure
 - .1 The support is strong, straight, smooth and dry, and is free of snow, ice, frost, dust and debris.

3.4 INSTALLING THE INSULATION PANEL

- .1 Apply a layer of adhesive according to the manufacturer's recommendations.
- .2 Embed the insulation boards in a vapour barrier adhesive applied as prescribed, before it forms a skin.
- .3 In addition to gluing, fasteners and washers must secure insulation boards with fasteners and washers at a rate of at least 6 per 610 mm x 2438 mm board. Make tight joints between the panels and cut the tie rod 3 mm from the washer.

- .4 Do not glue the joints of the insulation boards that coincide with the expansion or break joints. Before installing the insulation, close these joints with a continuous modified bitumen membrane [150 mm] [] wide and [0.15 mm] [] thick, bonded with adhesive and coated with a compatible primer.

3.5 PERIMETER FOUNDATION WALL INSULATION

- .1 Indoor installation: Install panels vertically against the inside face of the perimeter foundation walls, [up to [] mm from the underside of the paved floor slab] [to the level shown].
- .2 Exterior installation: Install panels against the exterior face of perimeter foundation walls, [to at least [] mm below final grade level] [to level shown] [to top of footing], and adhesive them to the top.
- .3 Installation under the slab:
 - .1 Install the panels [to a width of [] mm] [to the width indicated], from the perimeter foundation walls; the panels must be placed on a level and well-compacted embankment.
 - .2 Carefully adjust the insulation to protruding elements or accessories.
 - .3 Prevent displacement or damage of insulation during placement of rebar, other embedded elements and concrete.
- .4 Insulation of the perimeter heating ducts: Compact the walls of the heating duct trench well to make a solid support. Secure the insulation boards to the perimeter foundation walls from the underside of the finished floor to [100] [] mm below the underside of the duct. Install insulation boards in the bottom of the trench [[150] [] mm wider than the width of the duct] [] to at least [[600] [] mm from the inside face of the perimeter foundation wall] []. Secure the insulation to prevent it from shifting.

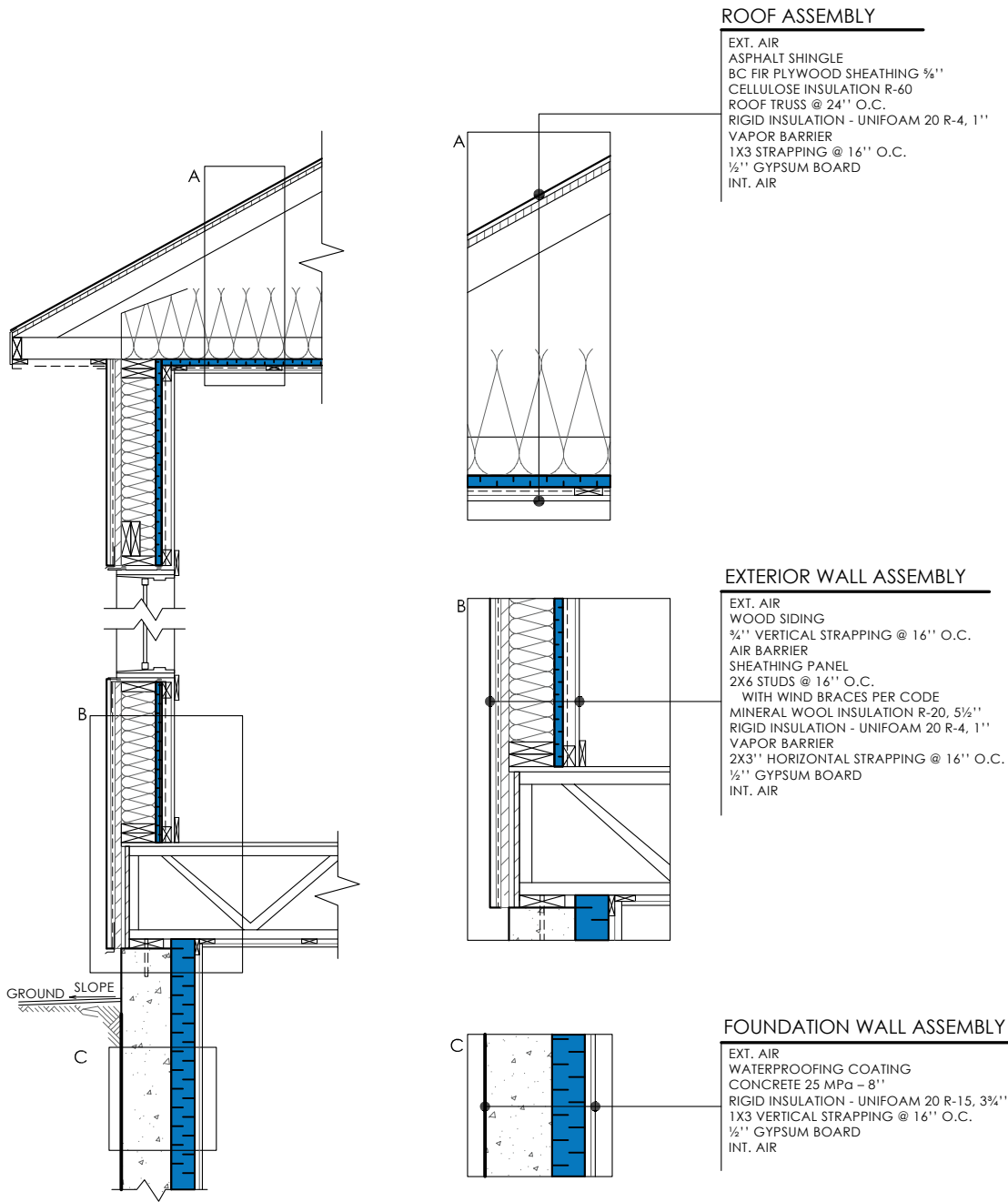
3.6 CAVITY WALL INSULATION

- .1 Install the polystyrene insulation boards on the outside of the interior wall of the cavity wall, [on through fasteners] [on a layer of adhesive].

3.7 CLEANING

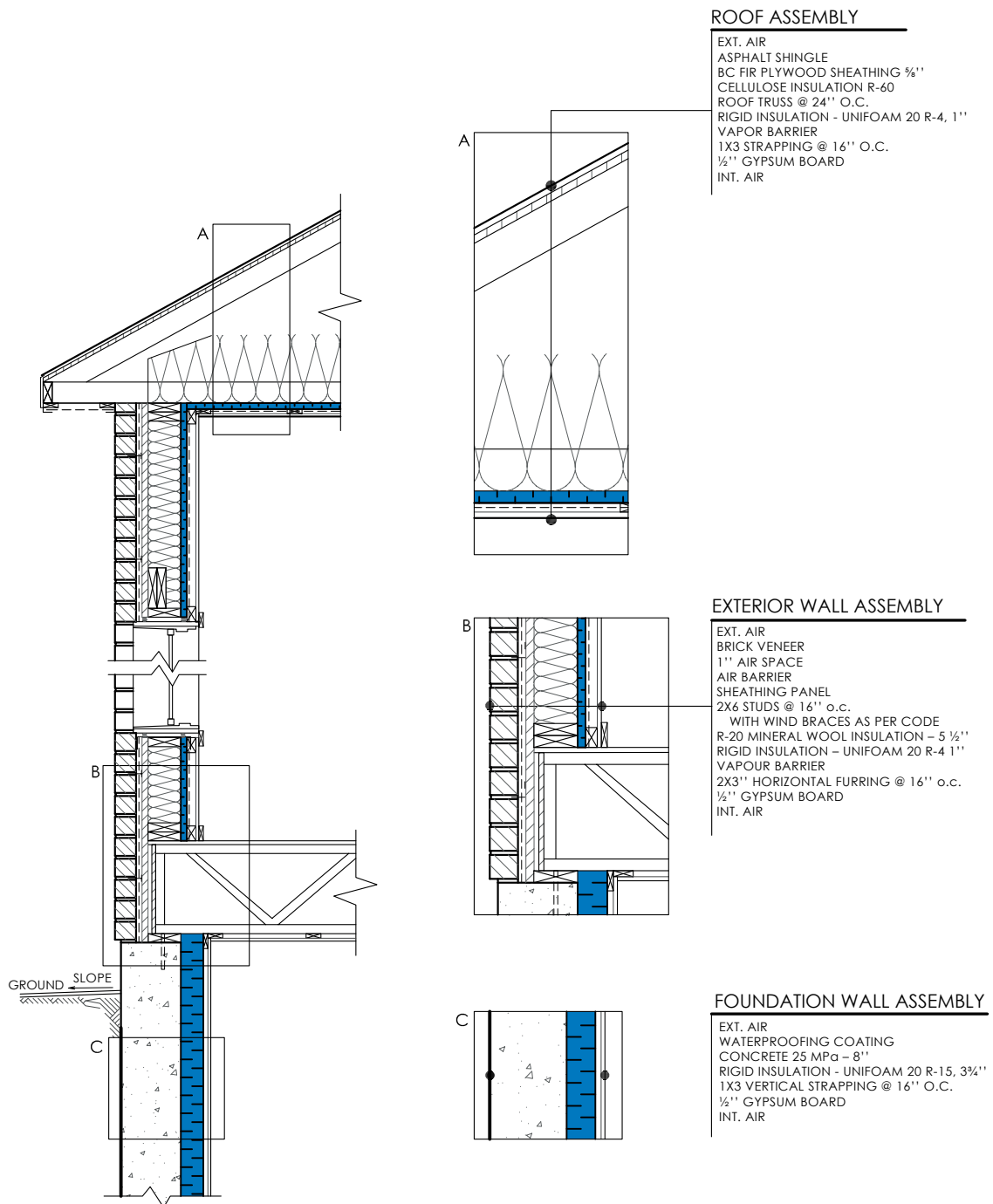
- .1 Upon completion of the installation, remove surplus materials and equipment, scrap materials, tools and safety gates from the site.

END OF SECTION



Polyform 855 Bd Industriel, Granby, QC J2J 1A6	THE INFORMATION CONTAINED IN THIS DRAWING IS A PRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.		DESCRIPTION WALL SECTION - INTERIOR INSULATION PANELS WITH WOOD SIDING FINISH APPLICATION	
	PRODUCT		UNIFOAM 20	
	SCALE		1/2"=1'-0"	
	DATE		02/09/2021	NO. 1.01





Polyform

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Granby, QC J2J 1A6

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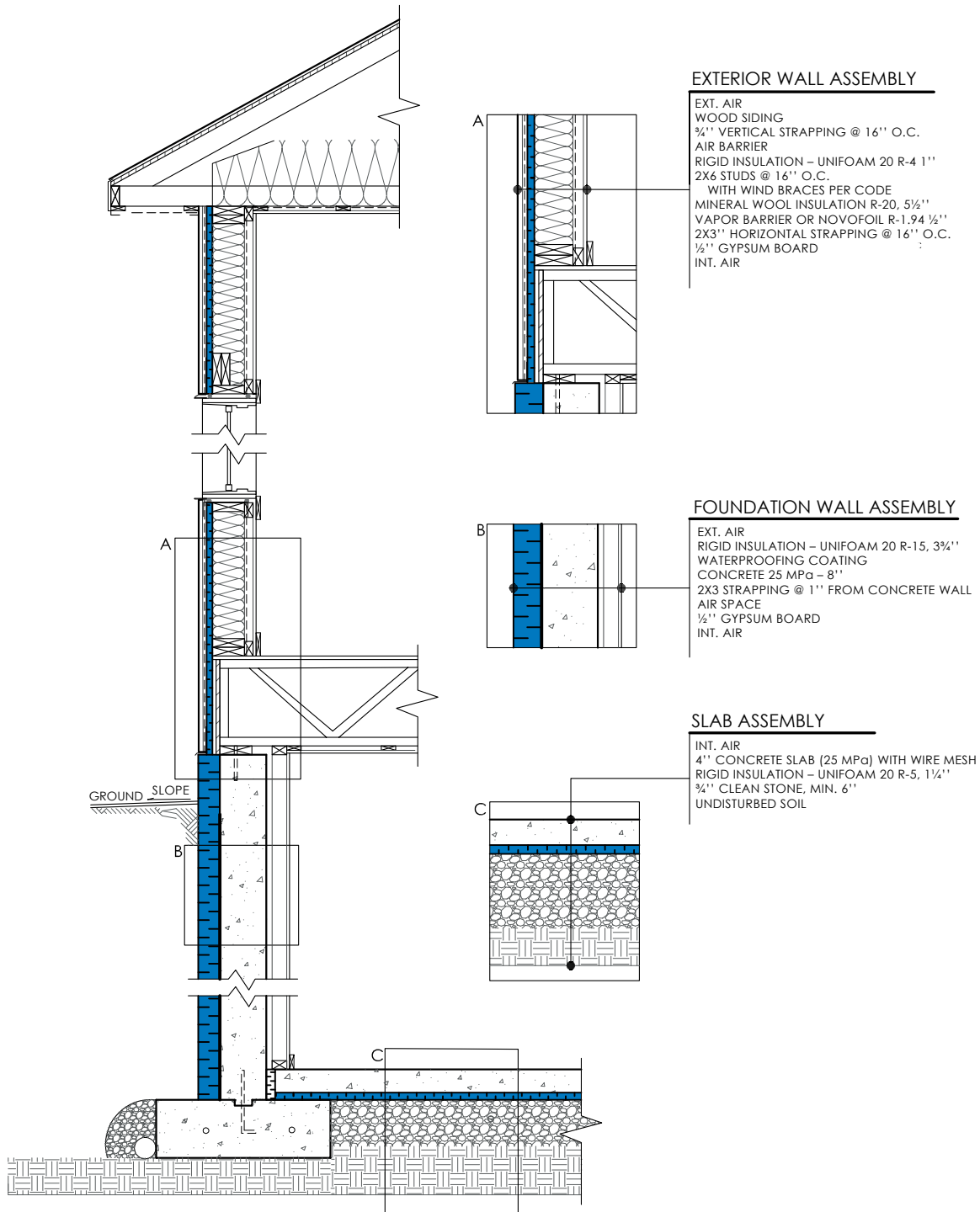
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SCALE 1/2"=1'-0"

DATE 02/09/2021

NO. 1.02





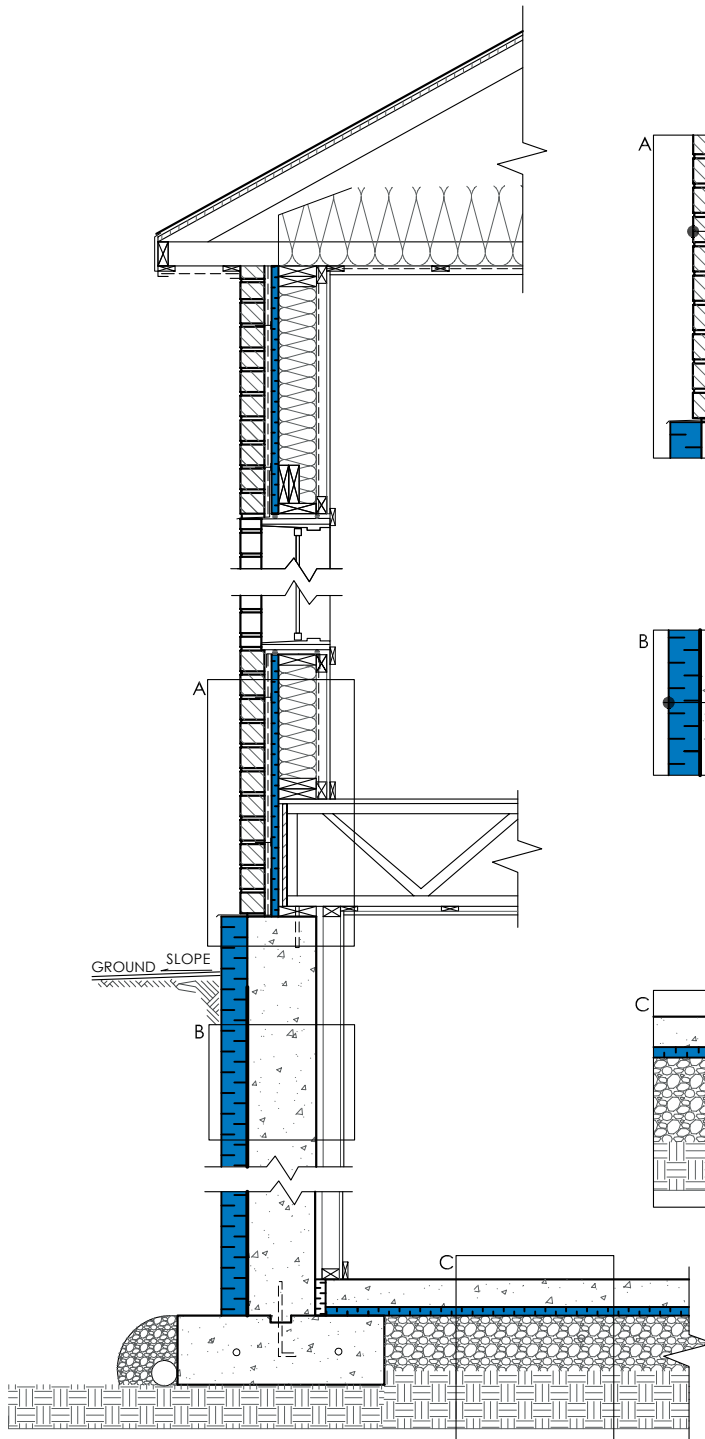
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PRODUCT	UNIFOAM 20	
SCALE	1/2"=1'-0"	
DATE	02/09/2021	NO. 1.03





EXTERIOR WALL ASSEMBLY

EXT. AIR
BRICK VENEER
1" AIR SPACE
AIR BARRIER
RIGID INSULATION – UNIFOAM 20 R-4 1"
2X6 STUDS @ 16" o.c.
WITH WIND BRACES AS PER CODE
R-20 MINERAL WOOL INSULATION – 5 1/2"
VAPOR BARRIER OR NOVOFOIL R-1.94 1/2"
2X3" HORIZONTAL FURRING @ 16" o.c.
1/2" GYPSUM BOARD
INT. AIR

FOUNDATION WALL ASSEMBLY

EXT. AIR
RIGID INSULATION - UNIFOAM 20 R-15, 3 3/4"
WATERPROOFING COATING
CONCRETE 25 MPa – 8"
2X3 STRAPPING @ 1" FROM CONCRETE WALL
AIR SPACE
1/2" GYPSUM BOARD
INT. AIR

SLAB ASSEMBLY

INT. AIR
4" CONCRETE SLAB (25 MPa) WITH WIRE MESH
RIGID INSULATION – UNIFOAM 20 R-5, 1 1/4"
3/4" CLEAN STONE, MIN. 6"
UNDISTURBED SOIL

Polyform

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DESCRIPTION WALL SECTION – EXTERIOR INSULATION PANEL APPLICATION WITH BRICK FINISH

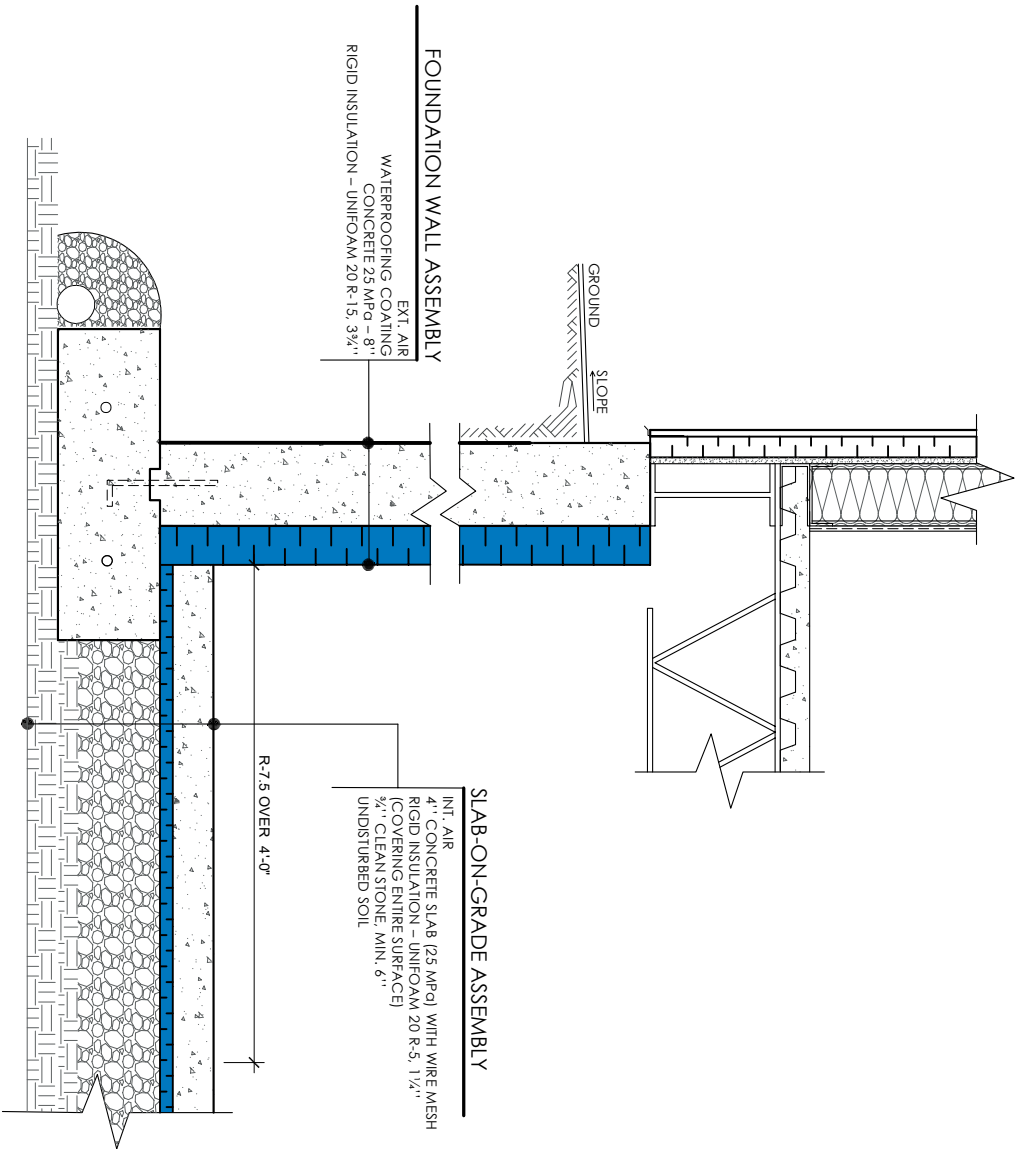
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DATE 02/09/2021

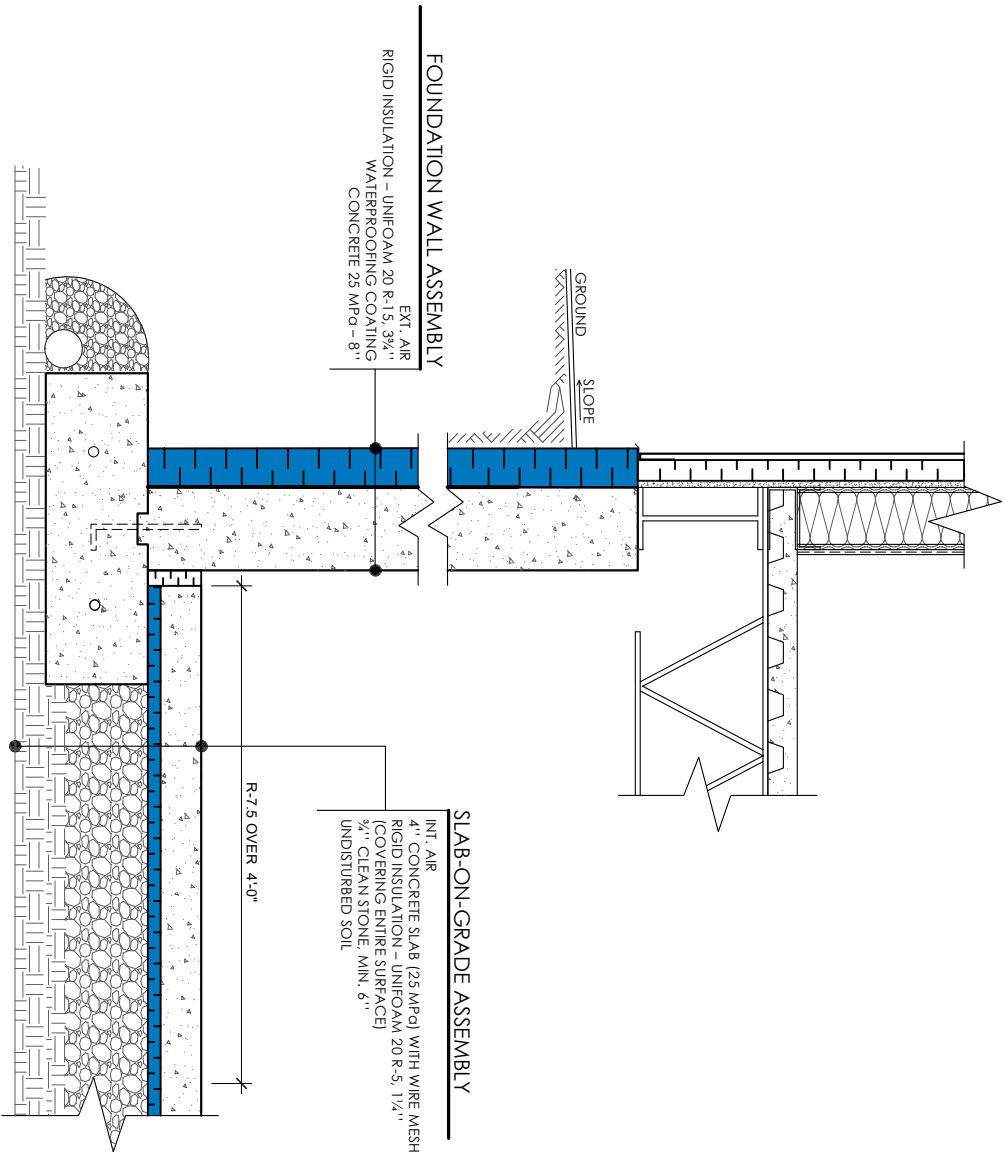
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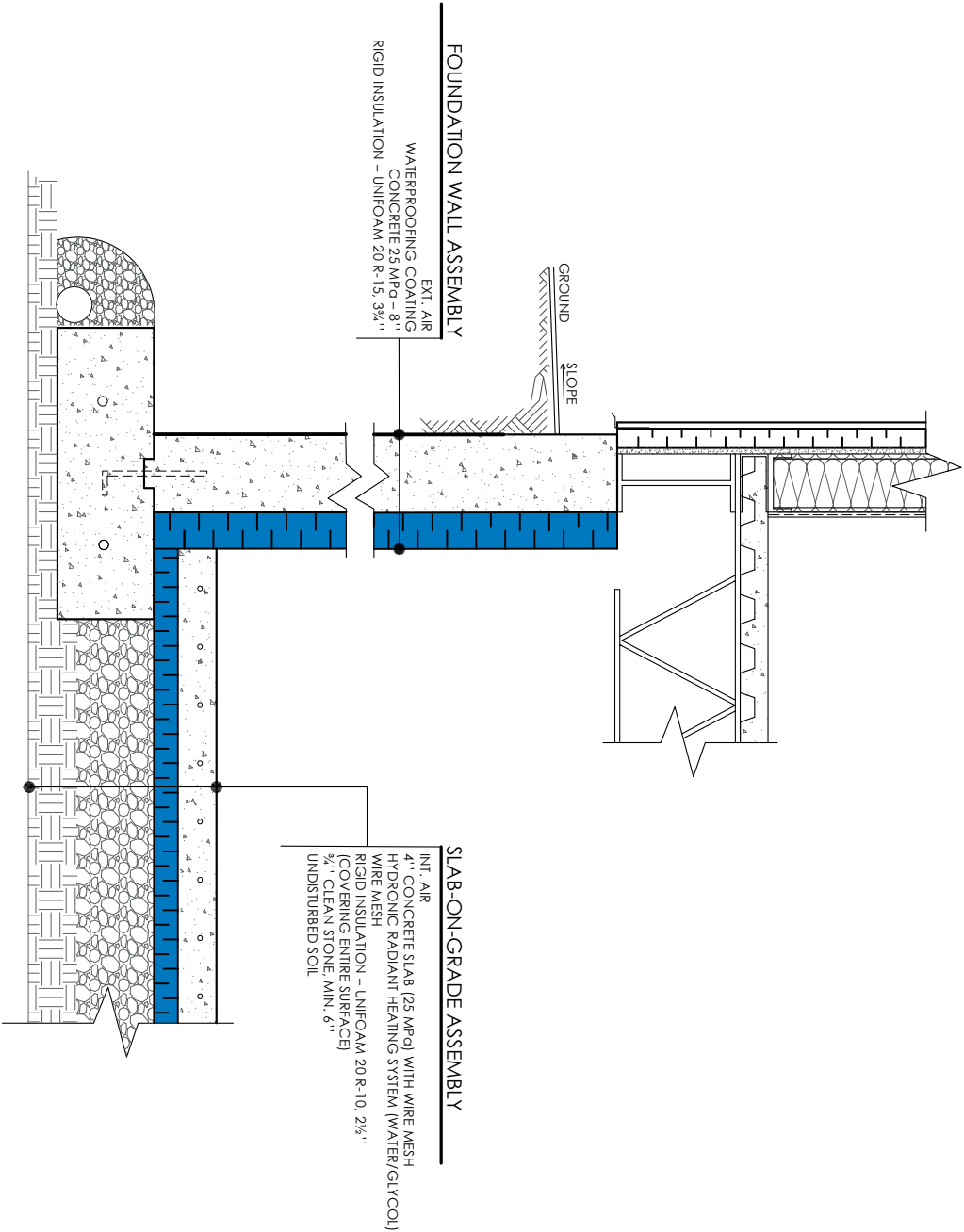
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DESCRIPTION		FOUNDATION WALL WITH INTERIOR INSULATION / SLAB	
PRODUCT		UNIFOAM 20	
SCALE		3/4"=1'-0"	
DATE		02/09/2021	
		NO. C.01	





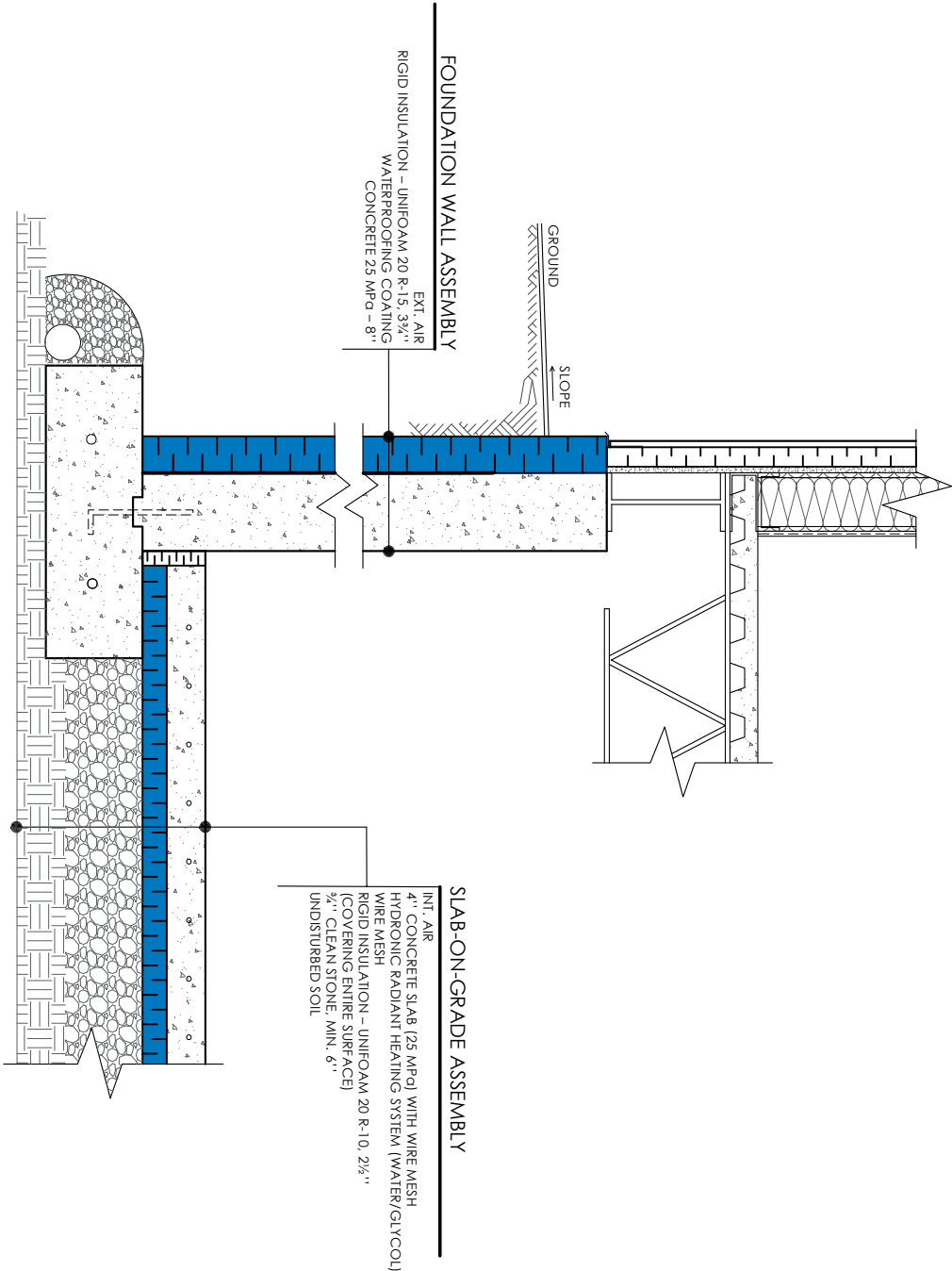
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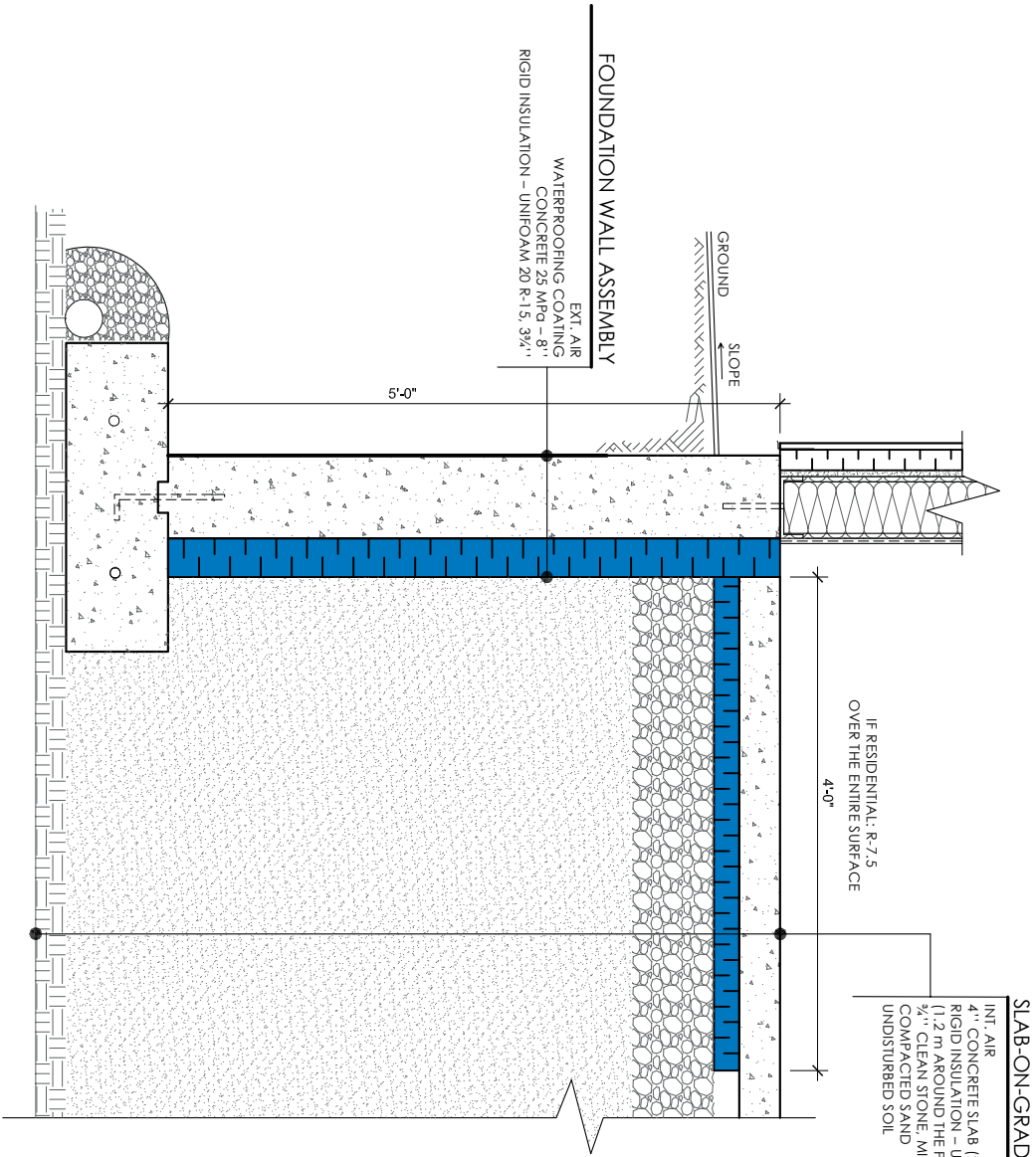
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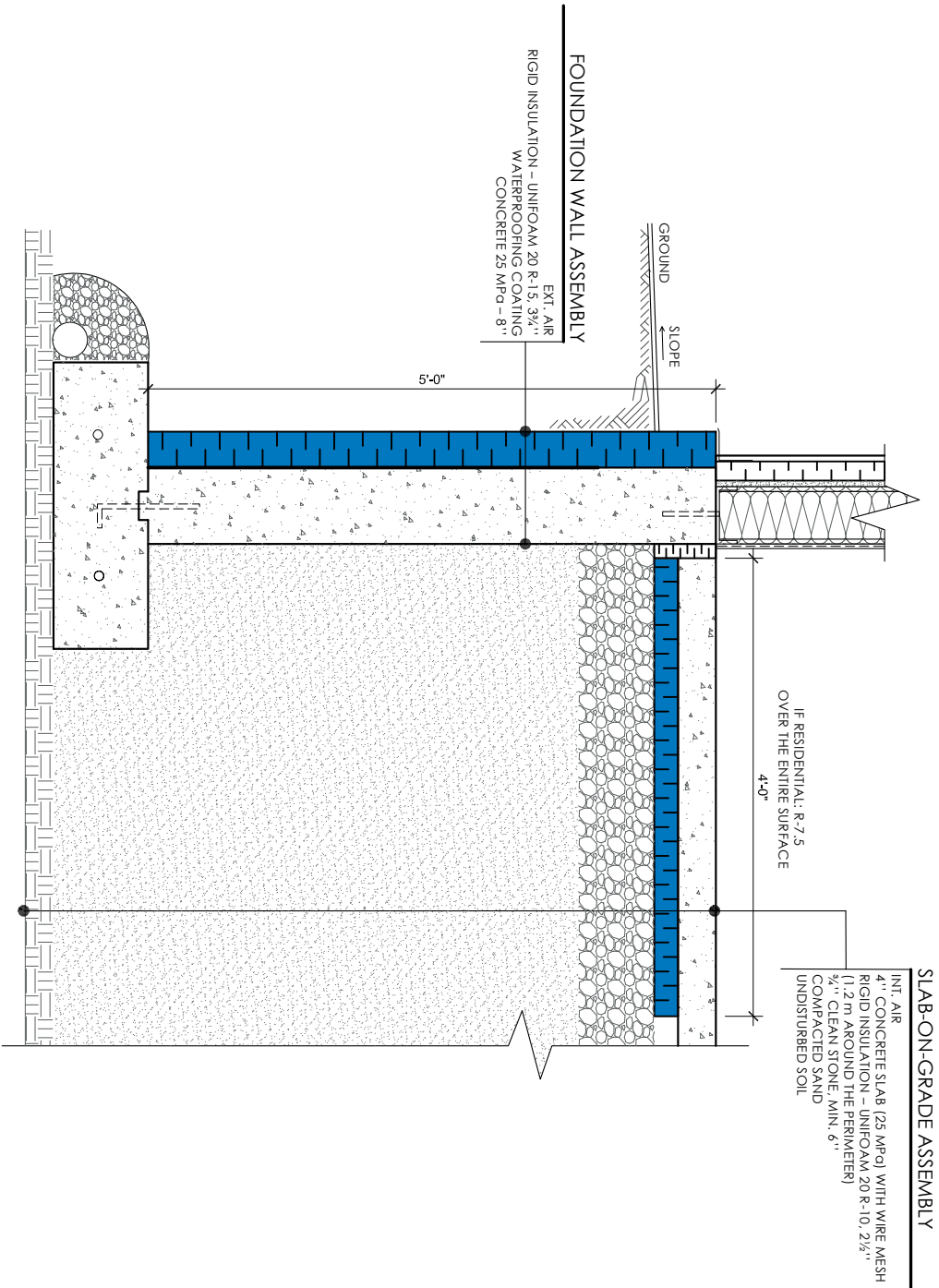
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PRODUCT		UNIFOAM 20	
SCALE		3/4"=1'-0"	
DATE		02/09/2021	NO. C-04





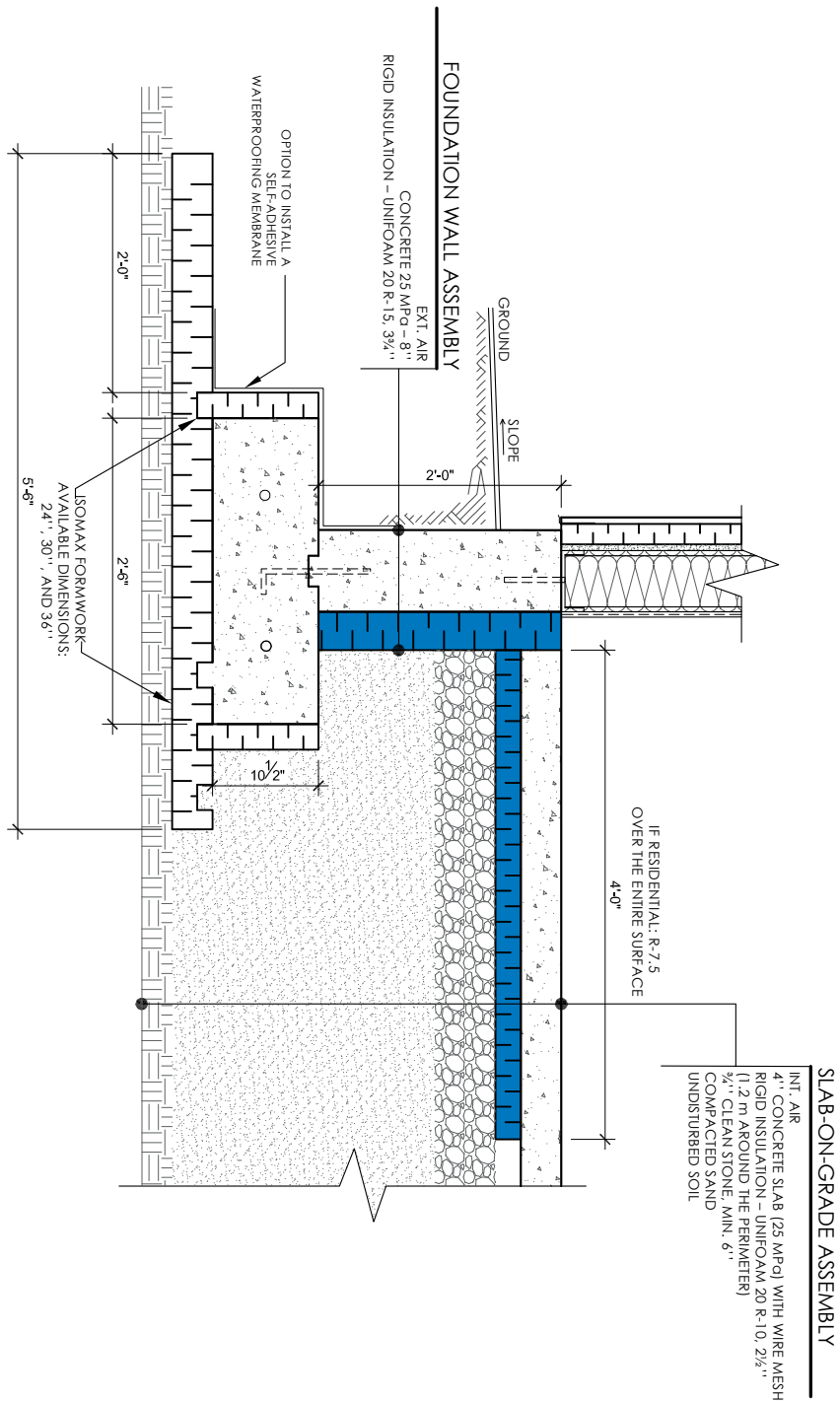
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PRODUCT		UNIFOAM 20	
SCALE		3/4" = 1'-0"	
DATE		02/09/2021	NO. C.05



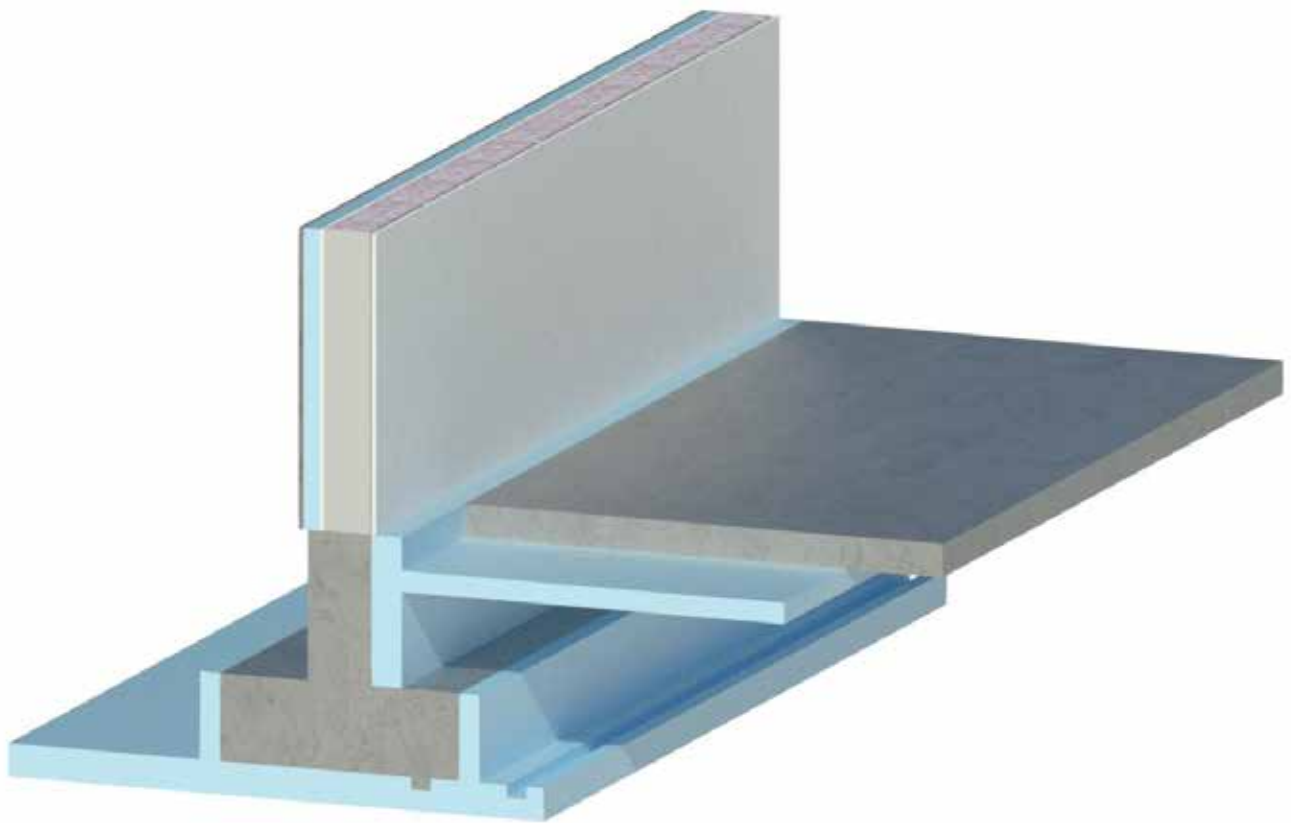


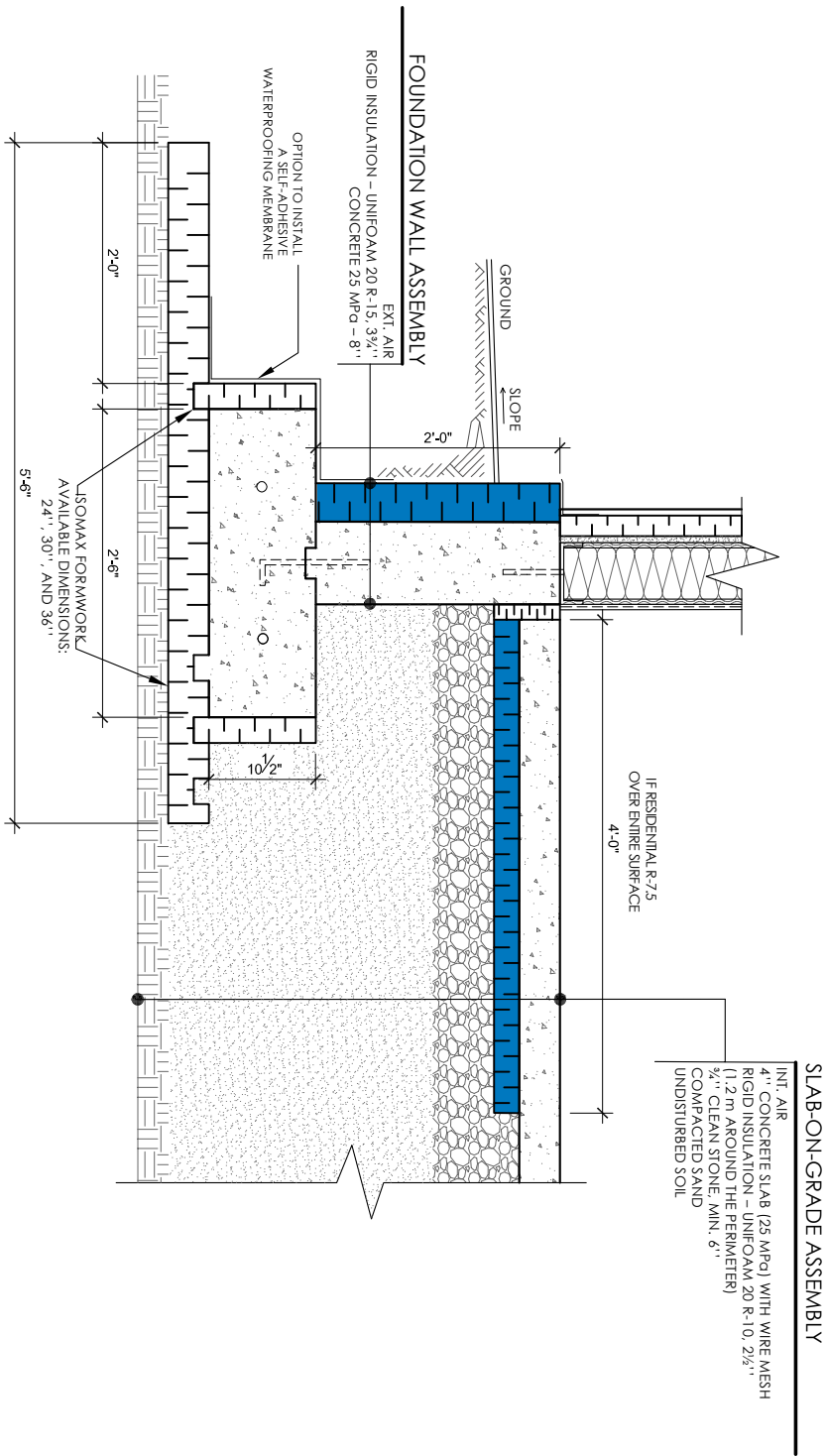
polyform 855 Bd Industriel Granby, QC J2J 1A6		THE INFORMATION CONTAINED IN THIS DRAWING IS A PRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.	
DESCRIPTION	FROST WALL WITH EXTERIOR INSULATION / SLAB-ON-GRADE	PRODUCT	UNIFOAM 20
SCALE	3/4" = 1'-0"	DATE	02/09/2021
			NO. C.06



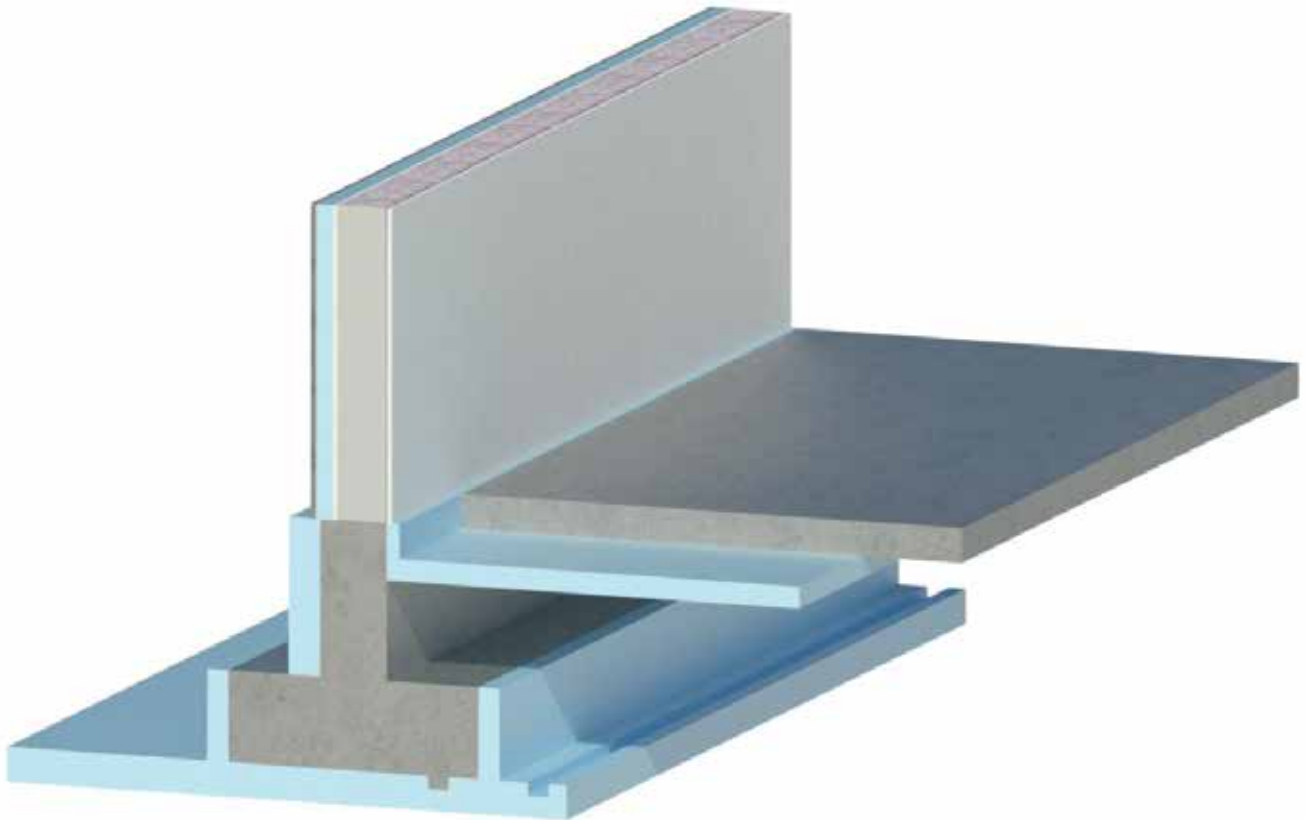


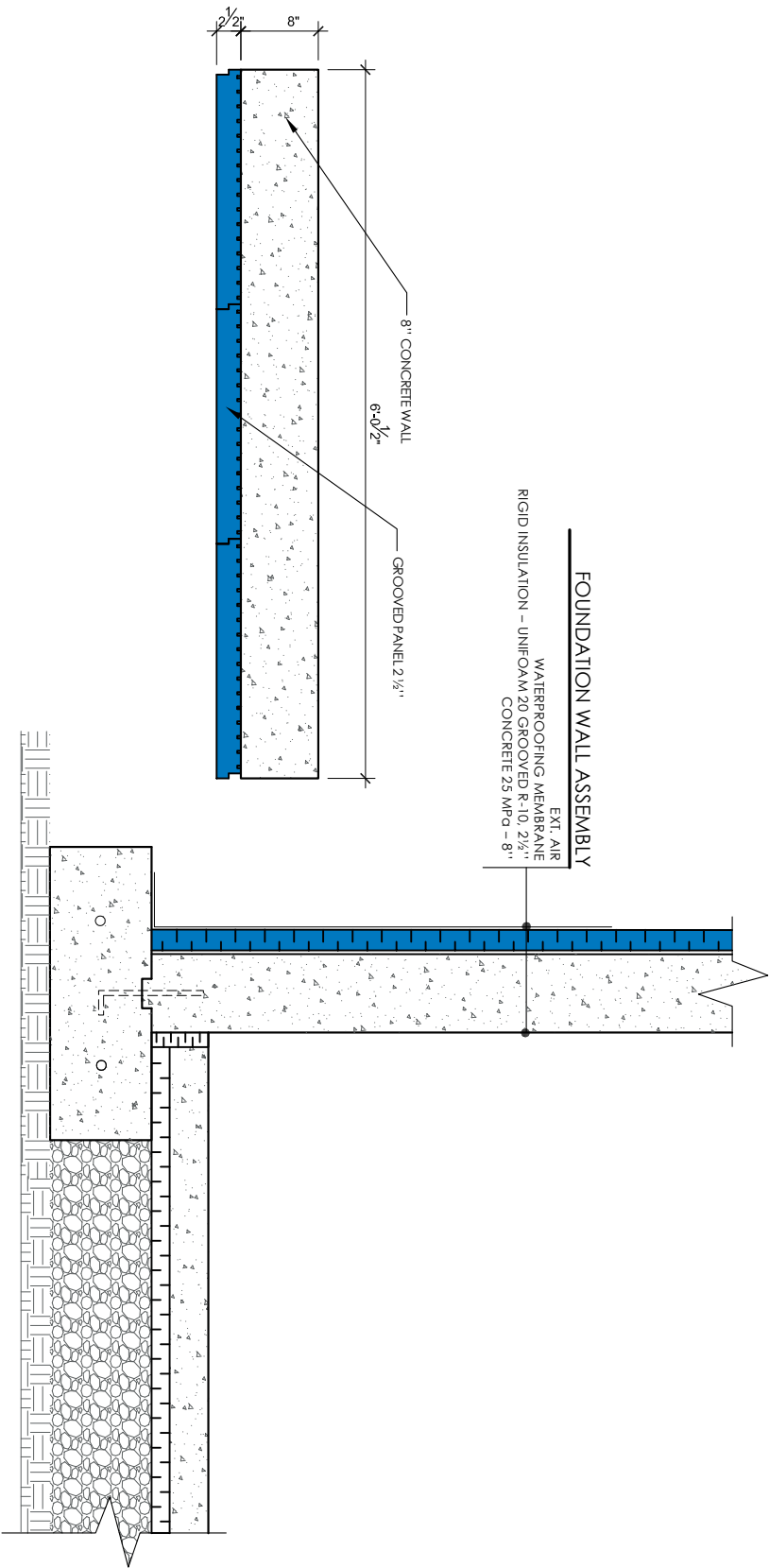
polyform 855 Bd Industriel Granby, QC J2J 1A6		THE INFORMATION CONTAINED IN THIS DRAWING IS A REPRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.	
DESCRIPTION		FOUNDATION WALL WITH INTERIOR INSULATION / SLAB-ON-GRADE	
PRODUCT		UNIFOAM 20	
SCALE		3/4" = 1'-0"	
DATE		02/09/2021	NO. C.07





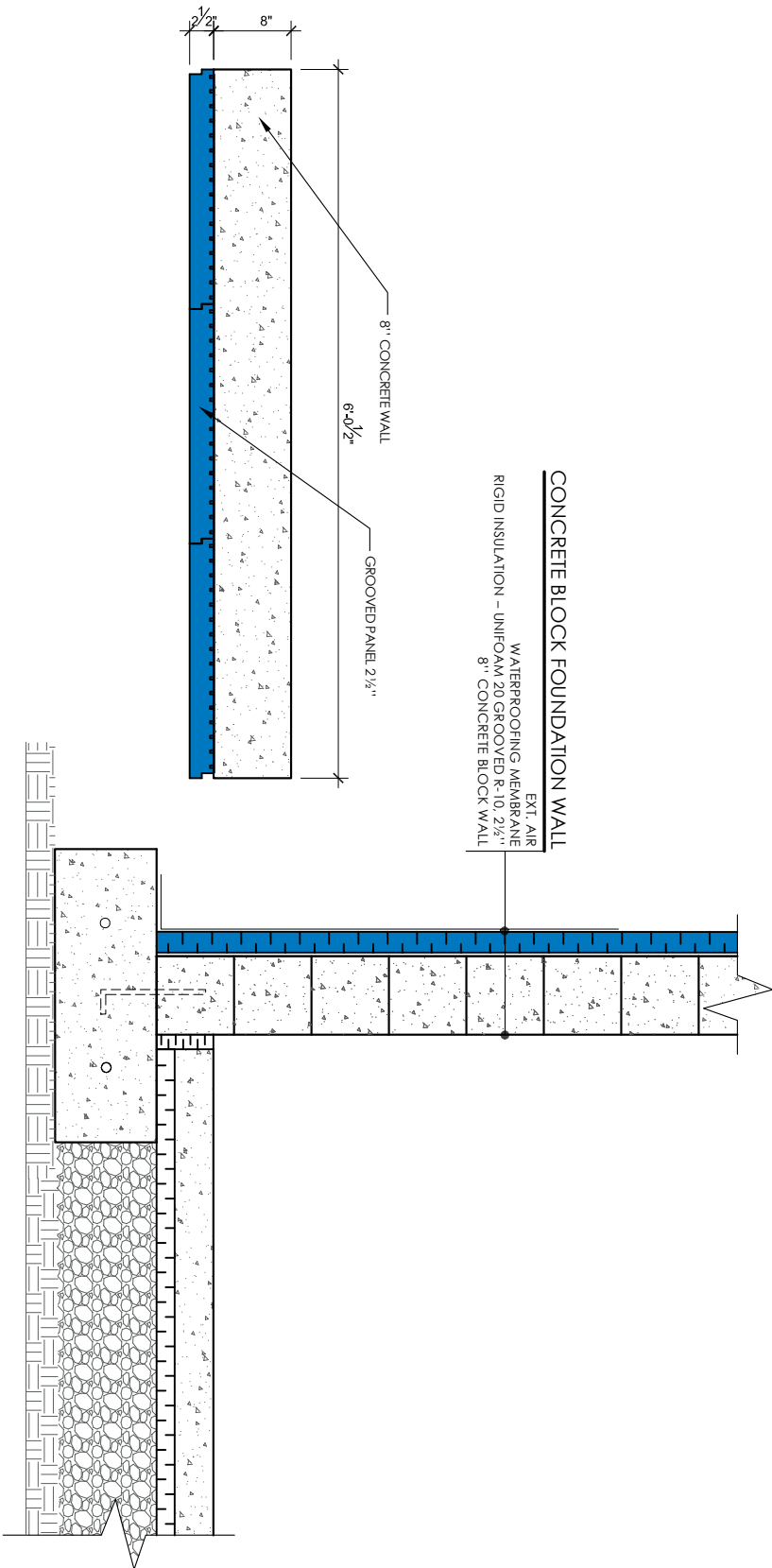
855 Bd Industriel Granby, QC J2J 1A6		THE INFORMATION CONTAINED IN THIS DRAWING IS A PRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.	
Polyform		DESCRIPTION FOUNDATION WALL WITH EXTERIOR INSULATION / SLAB-ON-GRADE	
PRODUCT		UNIFOAM 20	
SCALE		3/4"=1'-0"	
DATE		02/09/2021	NO. C.08



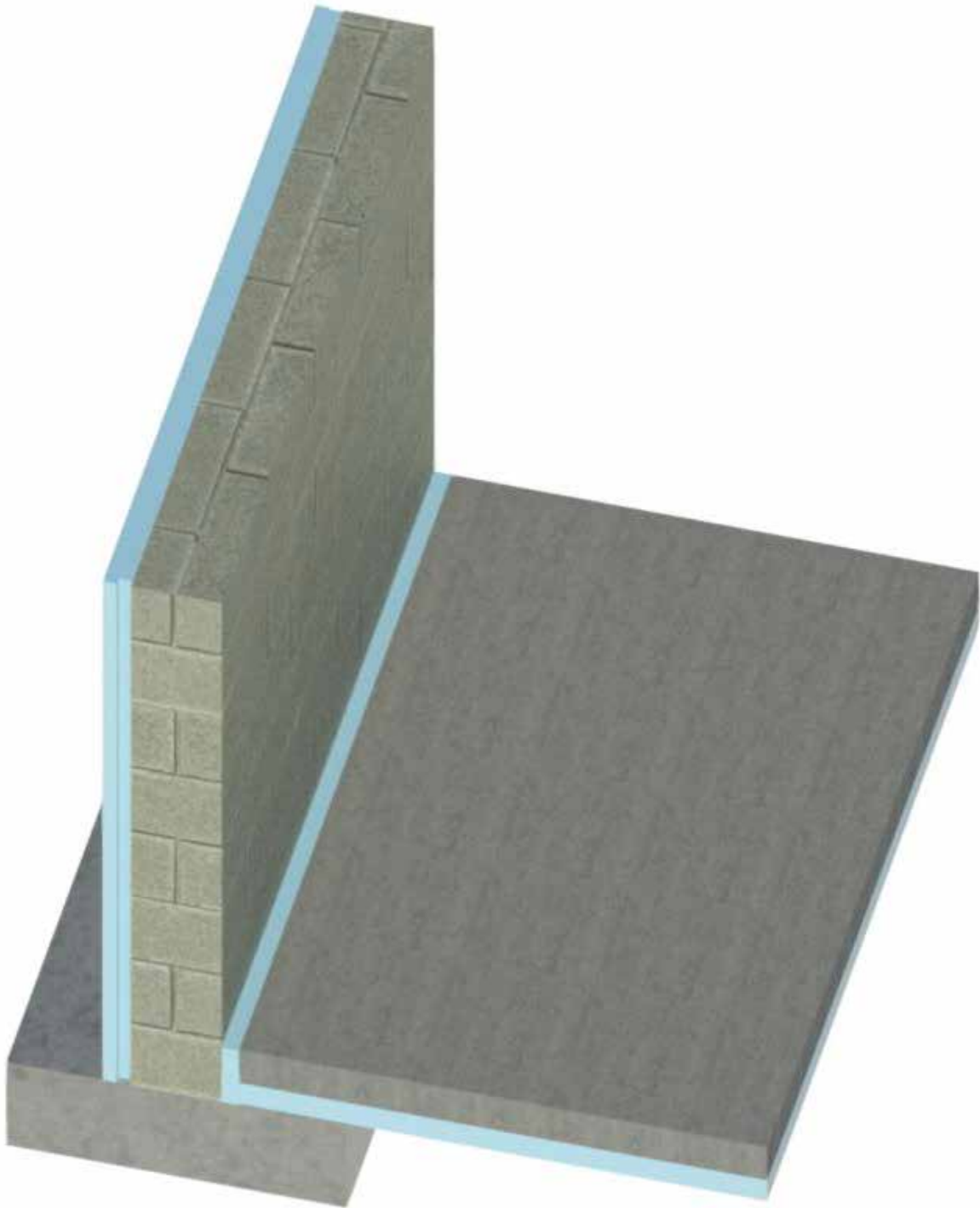


polyform 855 Bd Industriel Granby, QC J2J 1A6		THE INFORMATION CONTAINED IN THIS DRAWING IS A REPRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.	
DESCRIPTION		FOUNDATION WALL WITH EXTERIOR GROOVED INSULATION PANELS	
PRODUCT		UNIFOAM 20 GROOVED PANEL 2 1/2"	
SCALE		3/4" = 1'-0"	
DATE		02/09/2021	NO. C.14





Polyform 855 Bd Industriel, Granby, QC J2J 1A6		THE INFORMATION CONTAINED IN THIS DRAWING IS A PRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.	
DESCRIPTION	CONCRETE BLOCK FOUNDATION WALL WITH EXTERIOR GROOVED INSULATION PANELS	PRODUCT	UNIFOAM 20 GROOVED PANEL 2 1/2"
SCALE	3/4"=1'-0"	DATE	02/09/2021
			NO. C.15



UNIFOAM®
insert

UNIFOAM®
insert plus

Three-Groove Insulation Panel

UNIFOAM[®] insert UNIFOAM[®] insert plus

DESCRIPTION

Custom-cut insulation board with three grooves for wood furring strips.

- Type 1 density
Other densities are available on request
- Square cut boards
- Many dimensions for insulation
- **Unifoam Insert Plus includes furring strips.**



Made in Canada



UNIFOAM[®] insert UNIFOAM[®] insert plus

PRODUCT FEATURES

APPLICATIONS

Residential, commercial, industrial and institutional construction

- Insulation for interior and exterior walls
- Insulation for interior foundation walls
- Insulation under concrete slabs
- Insulation for roofs
- Insulation for ceilings

ADVANTAGES

Superior Performance

Enhanced installation efficiency through pre-cut grooves for wood furring strips

Precisely meets project requirements

Lightweight and easy to handle

Test results exceed ULC requirements

Permanent insulation value

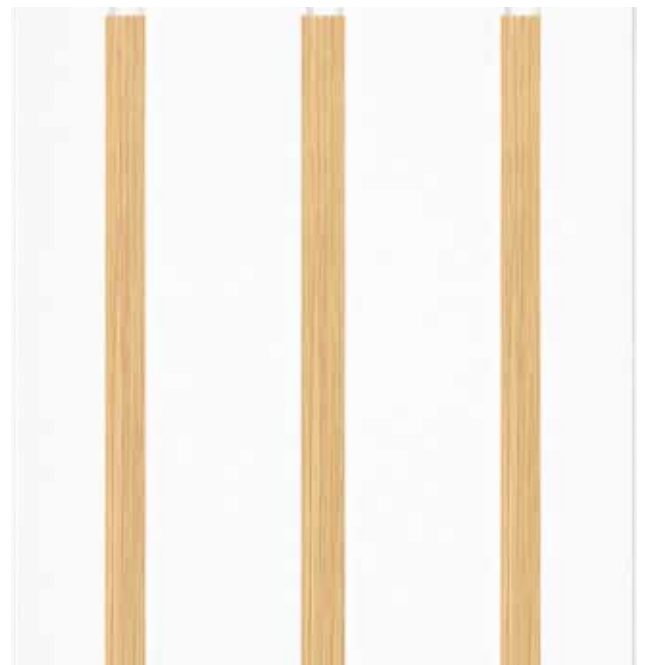
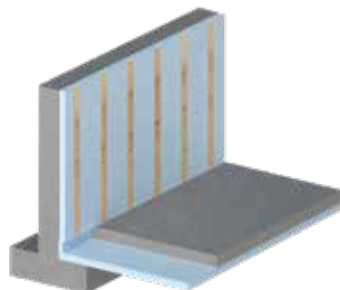
Energy savings through the elimination of thermal bridges

100% recyclable

Can be handled without health hazards and is non-irritating to skin

UNIFOAM[®]
insert plus

With furring strips



UNIFOAM[®] insert

UNIFOAM[®] insert plus

TECHNICAL DATA SHEET



EPS Physical Properties	ASTM Test Method	ULC S701 Type 1
Thermal resistance 1 in (25mm) hr·°F·ft ² /BTU (m ² ·°C/W)	C-518	Min : 3,7 Min : (0,65)
Water vapour permeability US Perm. (ng/Pa·s·m ²)	E-96	Max : 5,25 Max : (300)
Dimensional stability (%)	D-2126	Max : 1,5
Flexural strength lb/in ² (kPa)	C-203	Min : 25 Min : (170)
Water absorption (%)	D-2842	Max : 6,0
Compressive properties lb/in ² (kPa)	D-1621	Min : 10 Min : (70)
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 ⁻⁵ c-1) as per ASTM D-696 method.		

AVAILABLE SIZES

4 ft x 8 ft (1219mm x 2438mm) and 4 ft x 9 ft (1219mm x 2743mm) in thickness of :

2 5/8 in (67mm)

3 7/8 in (98mm)

Other dimensions and densities available upon request.

Unifoam Insert Plus includes furring strips.

ISO 9001:2015

Certified quality management system ISO 9001:2015.

Warning

Flammable: interior applications require a protective barrier.

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

UNIFOAM[®] insert UNIFOAM[®] insert plus



UNIFOAM[®] insert

UNIFOAM[®] insert plus



Installation guide

INSULATION PANEL HOT-WIRE CUT FOR
WOOD FURRING INSERTION

UNIFOAM[®] insert - Installation guide

PRODUCT DESCRIPTION

UNIFOAM INSERT[®] is an expanded polystyrene insulation board cut with a hot wire to allow the insertion of 3" wood furring strips at 16" (406 mm) on center. UNIFOAM INSERT[®] insulation boards are ideal for insulating: interior foundation walls, interior and exterior walls, screw floors, flat and cathedral ceilings. It is 100% recyclable and contains recycled material.

PANEL DIMENSIONS

Thickness: 2 5/8 in (67 mm), 3 7/8 in (98 mm)

Width: 48 in (1220 mm)

Length: 96 in (2440 mm)

PROPERTIES & STANDARDS

Thermal resistance

According to C-518: 1 in (25 mm) R 3,87 (RSI 0,68)

Compressive strength

According to the ASTM D-1621: 13 lb/in² (95 kPa)

Flexural strength

According to ASTM C-203: 61 psi (414 kPa)

Water vapour permeability

According to the ASTM E-96: 3,67 perm. (208 ng/Pa. s. m²)

Water absorption

According to ASTM D-2842: 4.1%

Banks

Overlapped and interlocked 1 1/2 in (38 mm) on all 4 sides.

UNIFOAM[®] insert - Installation guide

EXECUTION OF THE WORK

Foundation wall

UNIFOAM INSERT[®] must be installed on a flat foundation wall and free of any concrete mounds. It is installed directly on the concrete wall. To fix the panels, simply drill 3 holes at a distance of 24" between each one, through each piece of wood to the concrete and then screw with screws or concrete nails. Use nails or screws, at least one inch larger than the thickness of the insulation chosen. Do not stick.

For each wall, the starter sheet should be cut to within 2 5/8" (67 mm) or 3 7/8" (98 mm) of the wood furring (depending on the thickness of the product installed).

Before covering an entire wall, make sure you have installed a starter sheet on the next wall.

For the last sheet of each wall, leave 1/2" (13 mm) of headspace for low-expansion spray foam.

For the inside corners, recover the loss by using it as a starting sheet for the next corner. For the outside corners, glue a metal corner after installing the drywall or add a strip of sheet metal (this must be bent at 90 degrees and wide enough to be nailed to the existing furring blocks).

Repeat these steps for the other walls. Seal 1/2" (13 mm) gaps in all corners and other visible openings with low-expansion spray foam.

For electricity, enclose electrical boxes in insulation and secure to wood furring or insulation with low-expansion spray foam. Install electrical wiring by digging a "V" shaped corridor in the insulation with a thin-bladed knife. Confirm with your electrician and the building code standards in effect if protection must be installed.

For windows, provide a solid outline (wood fur) for the installation of wide mouldings.

When installing gypsum board, start at the corner and install the left panel before the right panel so that the right panel holds the left panel. Screw the right panel into the corner wood fur.

IMPORTANT: Insulate the perimeter of the insulated wall and perforations in the panel insulation (e.g., around electrical boxes, windows, etc.) by filling the joints with low-expansion polyurethane foam.

UNIFOAM[®] insert - Installation guide

Floor

Glue the UNIFOAM INSERT[®] insulation boards to the concrete to prevent displacement during installation (optional). Use a small amount of solvent-free glue.

Cross the joints of the plywood with the UNIFOAM INSERT[®] insulation boards. Screw the plywood onto the wood furring every 12" (305 mm) apart.

Apply the chosen surface finish. For all floor finishing installations, please refer to the methods recommended by floor covering experts.

IMPORTANT: Floors with a slope for the drain may require some preparation.

Ceiling

When using UNIFOAM INSERT[®] panels for a flat or cathedral ceiling, it is advisable to install batt, roll or loose insulation (cellulose, fiberglass or mineral) between the attic joists. Once the UNIFOAM INSERT[®] panels have been installed, it is important to cover them with a vapour barrier (always on the warm side) and then proceed with the continuous installation of gypsum panels, before the installation of the divisions.

The successive layers:

1. Mat, roll or loose insulation
2. UNIFOAM INSERT panels
3. Vapour barrier
4. Gypsum board installed continuously

UNIFOAM[®] *insert* - Installation guide

FOUNDATION WALL INSULATION



UNIFOAM[®] - Installation guide

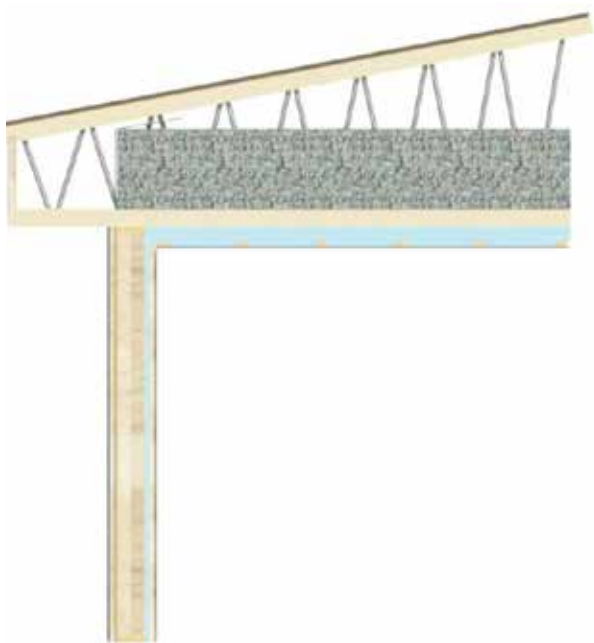
FLOOR INSULATION



UNIFOAM[®] insert - Installation guide

CEILING INSULATION (FLAT OR CATHEDRAL)

Flat ceiling



Cathedral ceiling

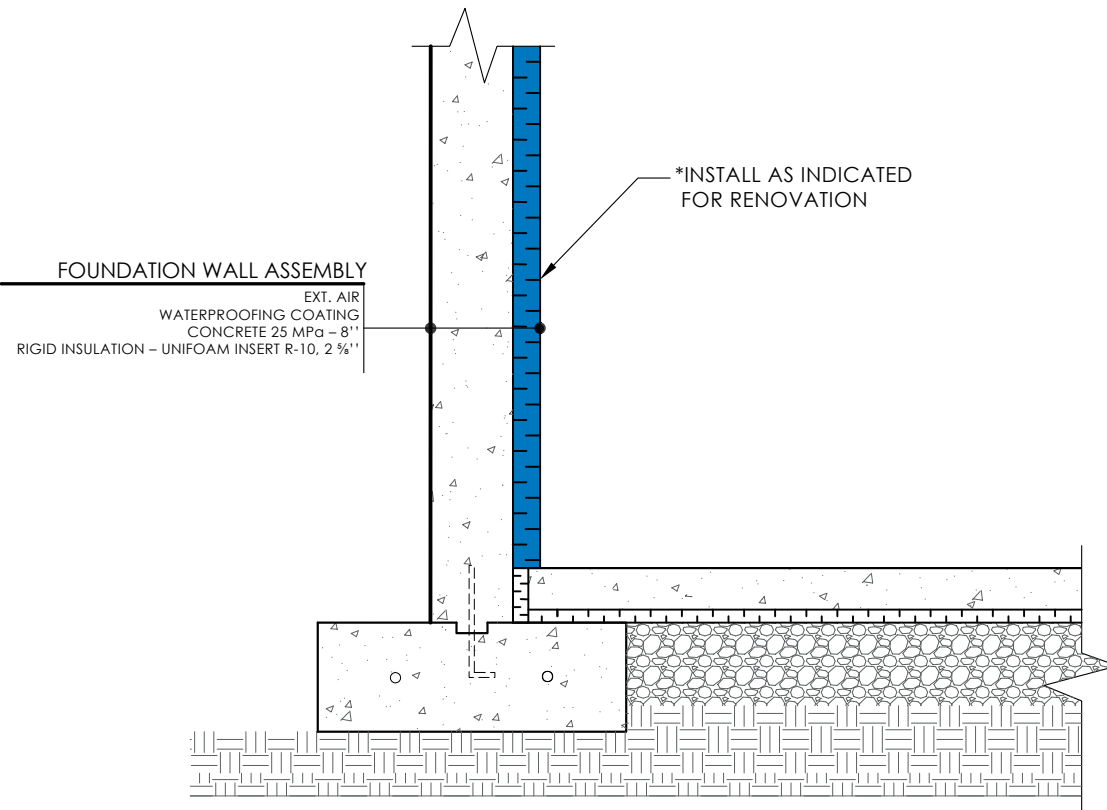
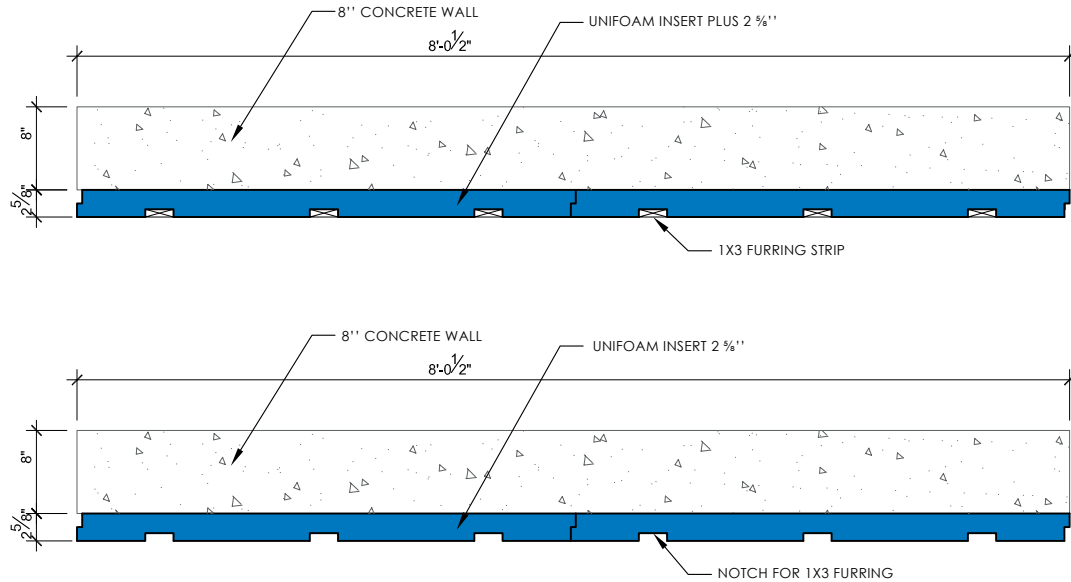


GUI-SH-1605

UNIFOAM[®] insert

UNIFOAM[®] insert plus

Residential



Polyform

855 Bd Industriel
Granby, QC J2J 1A6

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DESCRIPTION FOUNDATION WALL SECTION
INTERIOR INSULATION PANELS

PRODUCT UNIFOAM INSERT ET INSERT PLUS 2 5/8"

SCALE 3/4"=1'-0"

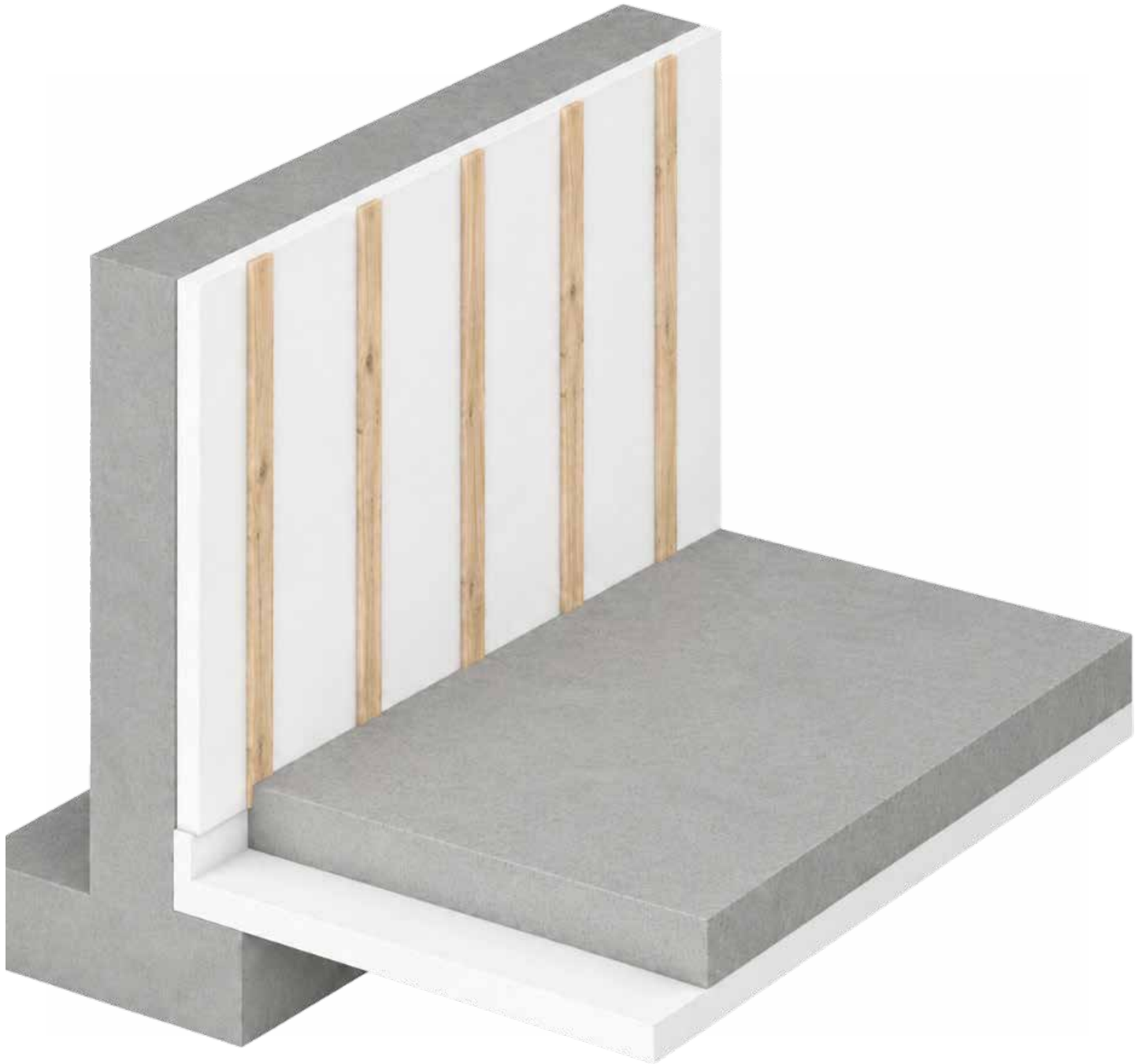
DATE 02/09/2021

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UNIFOAM[®]
insert

UNIFOAM[®]
insert plus

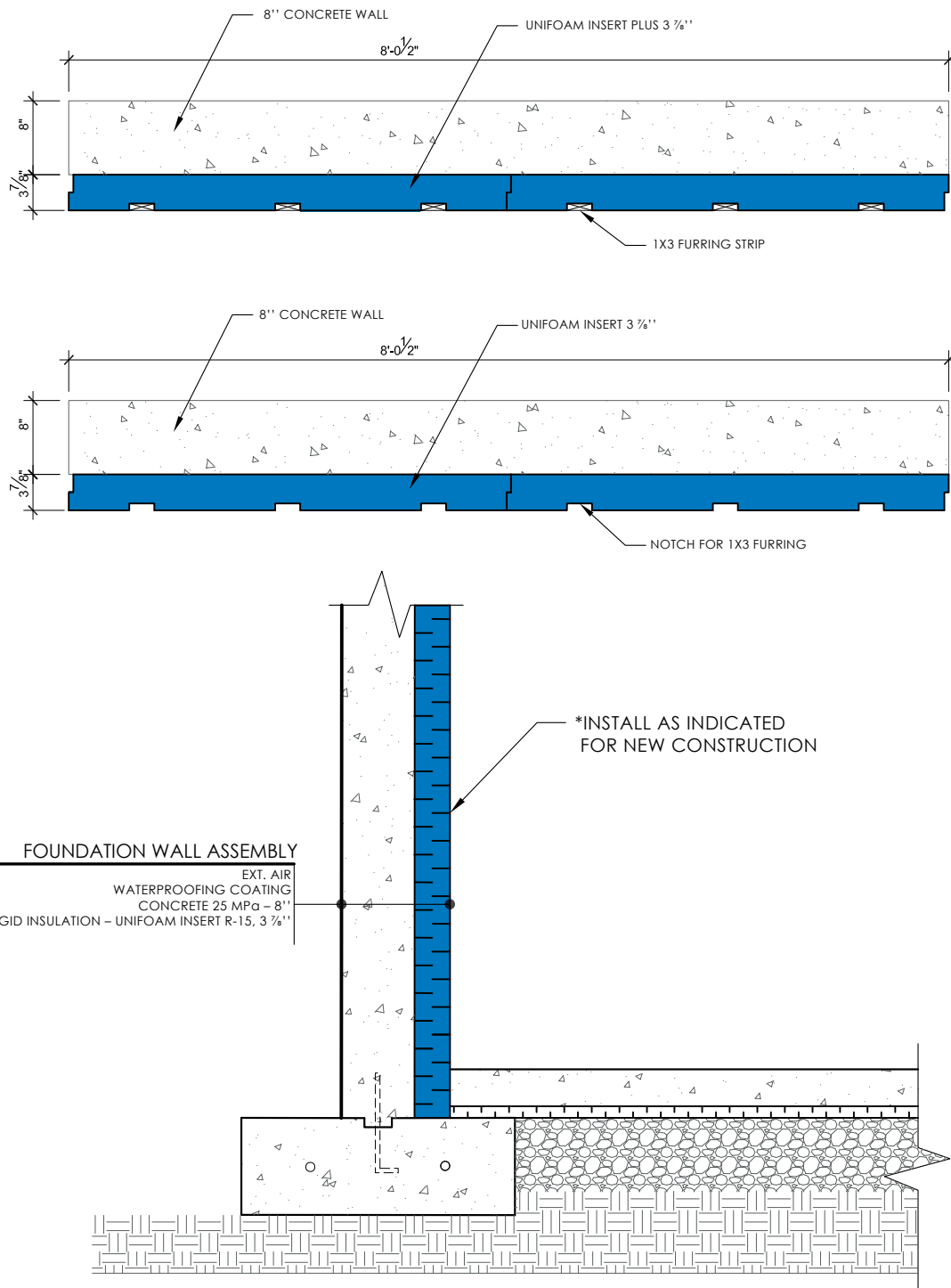
Residential



UNIFOAM[®] insert

UNIFOAM[®] insert plus

Residential



Polyform

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DESCRIPTION FOUNDATION WALL SECTION
INTERIOR INSULATION PANELS

PRODUCT UNIFOAM INSERT ET INSERT PLUS 3 3/8"

SCALE 3/4"=1'-0"

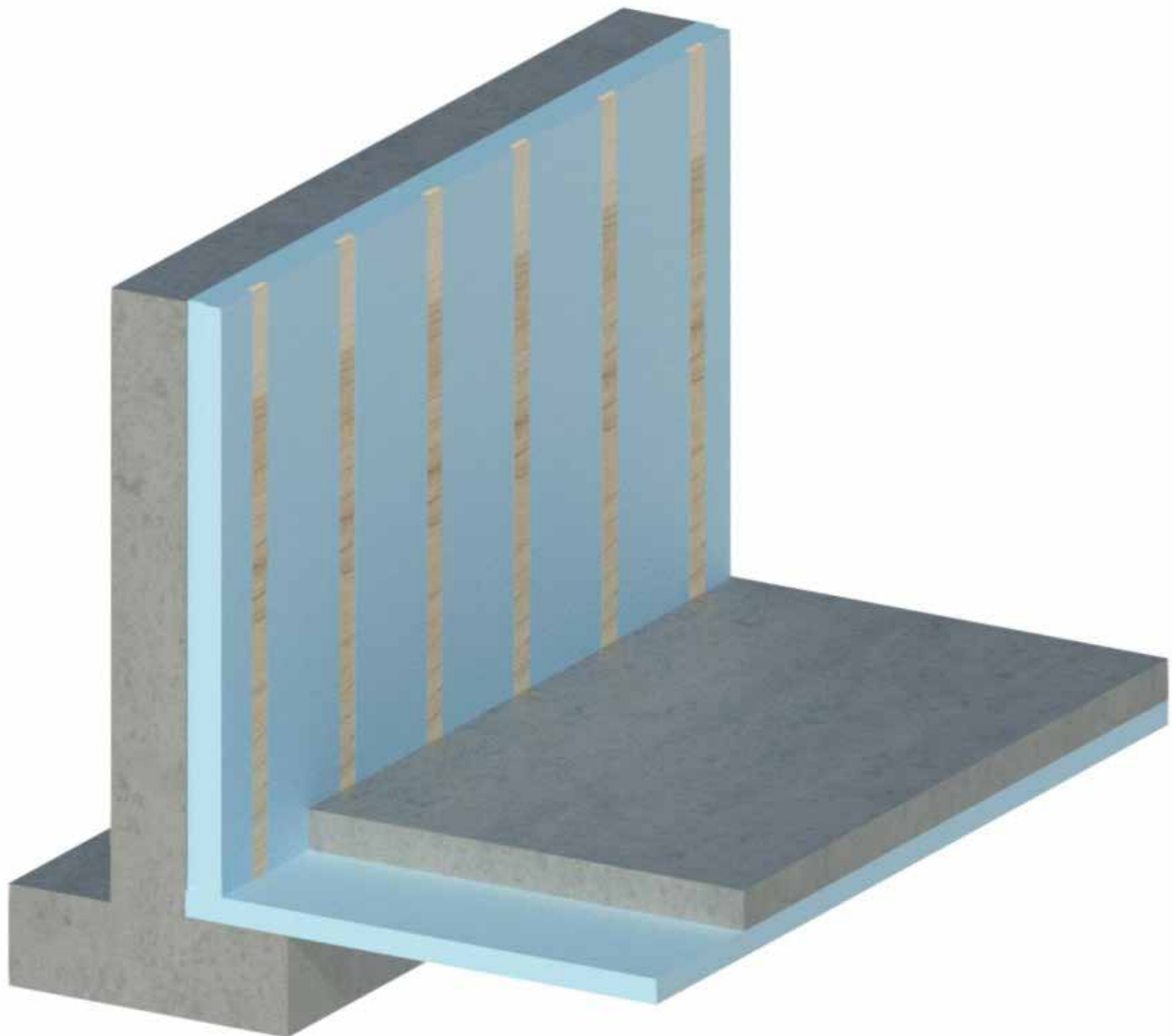
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UNIFOAM[®]
insert

UNIFOAM[®]
insert plus

Residential



NOVOFOIL®

Vapour-Barrier Insulation Panel

NOVOFOIL®

DESCRIPTION

High density expanded polystyrene reflective vapour-barrier insulation board

- 4 ft x 8 ft (1219mm x 2438mm) and 4 ft x 8 ft 4 in (1219mm x 2540mm)
- Laminated vapour-barrier membrane on 1 side
- Benchmarks at 8 in (203mm) intervals printed on the membrane
- Shiplapped on 2 sides for thickness of 2 in (51mm) or more

CCMC 14205-R, certified wall composition



Made in Canada



NOVOFOIL®

PRODUCT FEATURES

APPLICATIONS

Residential, commercial, industrial and institutional construction

Insulation for interior walls

Insulation for ceilings

Insulation for interior foundation walls

ADVANTAGES

Superior Performance

Higher thermal resistance when installed with wood strips

Two installation steps in one: Laminated vapour-barrier membrane on the board with benchmarks at 8 in (203mm) intervals

Easy to handle and quick to install

Permanent insulation value

Energy savings through the elimination of thermal bridges

Contains recycled material

Can be handled without health hazards and is non-irritating to skin

TECHNICAL DATA SHEET

EPS Physical Properties	ASTM Test Method	ULC S701 Type 1
Thermal resistance 1 in (25mm) hr·°F·pi²/BTU (m²·°C/W)	C-518	Min : 3,87 Min : (0,68)
Water vapour permeability US Perm. (ng/Pa·s·m²)	E-96	Max : 0,017 Max : (1)
Dimensional stability (%)	D-2126	Max : 1,5
Flexural strength lb/in² (kPa)	C-203	Min : 25 Min : (170)
Water absorption (%)	D-2842	Max : 6,0
Compressive properties lb/in² (kPa)	D-1621	Min : 10 Min : (70)
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.		

AVAILABLES SIZES

4 ft x 8 ft (1219mm x 2438mm) in thickness of 1/2 in (13mm) up to 3 in (76mm).

4 ft x 8 ft 4 in (1219mm x 2540mm) in thickness of 1/2 in (13mm) up to 3 in (76mm).

The **3 in (76 mm)** thick NOVOFOIL® board meets the **new requirements of section 11** on energy efficiency of the Quebec Construction Code chapter for insulation of interior foundation wall and satisfies most of the new requirements set for Eastern Canada. Check with your local Construction Building Code.

ISO 9001:2015

Certified quality management system ISO 9001:2015.



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

Warning

Flammable: interior applications require a protective barrier.

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TECHNICAL DATA SHEET - Novoclimat requirements

EPS Physical Properties	ASTM Test Method	ULC S701 Type 1
Thermal resistance 1 in (25mm) hr·°F·pi²/BTU (m²·°C/W)	C-518	Min : 3,87 Min : (0,68)
Water vapour permeability US Perm. (ng/Pa·s·m²)	E-96	Max : 0,017 Max : (1)
Dimensional stability (%)	D-2126	Max : 1,5
Flexural strength lb/in² (kPa)	C-203	Min : 25 Min : (170)
Water absorption (%)	D-2842	Max : 6,0
Compressive properties lb/in² (kPa)	D-1621	Min : 10 Min : (70)
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

4 ft x 8 ft x 3 in (1219mm x 2438mm x 76mm).

4 ft x 8 ft 4 in x 3 in (1219mm x 2540mm x 76mm).

Certified wall compositions, # CCMC 14205-R.

Consult the NOVOFOIL installation guide to learn about the wall compositions.

ISO 9001:2015

Certified quality management system ISO 9001:2015.

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NOVOFOIL[®] graphite

DESCRIPTION

NOVOFOIL Graphite is a graphite-enhanced expanded polystyrene (EPS) insulation panel designed to improve the energy performance of buildings. By incorporating graphite particles into the EPS, the board further reduces heat transfer compared to conventional EPS, providing a higher insulating value (R-value) at the same thickness. It is faced with the same reflective aluminum foil used on the standard product.

Enhanced thermal resistance

Thanks to the addition of graphite particles in the expanded polystyrene, NOVOFOIL Graphite delivers a thermal resistance of R-4.6 per inch (RSI 0.81), compared to R-3.87 per inch (RSI 0.68) for standard NOVOFOIL.



NOVOFOIL® *graphite*

TECHNICAL DATA SHEET

EPS Physical Properties	ASTM Test Method	ULC S701 Type 1
Thermal resistance 1 in (25mm) hr·°F·pi²/BTU (m²·°C/W)	C-518	Min : 4,6 Min : (0,81)
Water vapour permeability US Perm. (ng/Pa·s·m²)	E-96	Max : 0,017 Max : (1)
Dimensional stability (%)	D-2126	Max : 1,5
Flexural strength lb/in² (kPa)	C-203	Min : 25 Min : (170)
Water absorption (%)	D-2842	Max : 6,0
Compressive properties lb/in² (kPa)	D-1621	Min : 10 Min : (70)
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

4 ft × 8 ft × 1/2 in. (1219 mm × 2438 mm × 13 mm)

4 ft × 8 ft × 3/4 in. (1219 mm × 2438 mm × 19 mm)

4 ft × 8 ft × 1 in. (1219 mm × 2438 mm × 25 mm)

Certified wall compositions, # CCMC 14205-R.

Consult the NOVOFOIL installation guide to learn about the wall compositions.

ISO 9001:2015

Certified quality management system ISO 9001:2015.

Warning

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

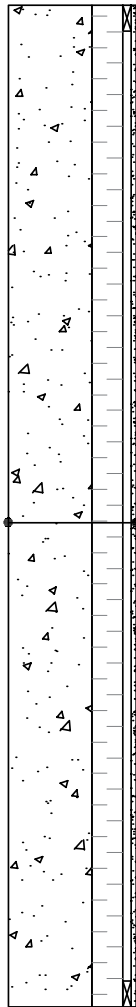
NOVOFOIL®

INSTALLATION TIPS

1. Apply NOVOFOIL® insulation boards to interior walls or ceilings with the vapour-barrier membrane facing the interior.
2. Seal joints with vapour-barrier adhesive tape.
3. Install 3/4 in (19mm) thick wood strips at 16 in (406mm) intervals between NOVOFOIL® boards and drywall panels to allow reflectivity.



NOVOFOIL®



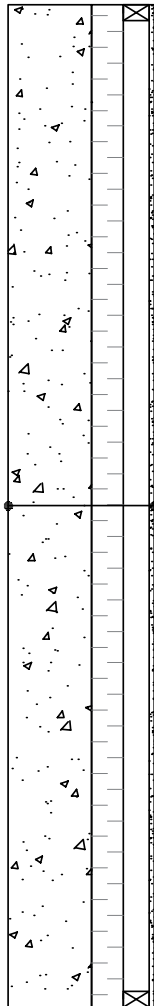
FOUNDATION WALL ASSEMBLY

EXT. AIR
8" FOUNDATION WALL
3" NOVOFOIL R-18.40 RIGID INSULATION
1X3 VERTICAL FURRING @ 24" c/c
1/2" DRYWALL
INT. AIR

▲ WALL 1



NOVOFOIL®



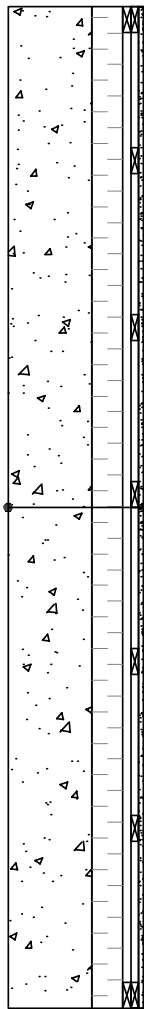
FOUNDATION WALL ASSEMBLY

EXT. AIR
8" FOUNDATION WALL
3" NOVOFOIL R-18.91 RIGID INSULATION
2X3 VERTICAL FURRING @ 24" c/c
1/2" DRYWALL
INT. AIR

▲ WALL 2



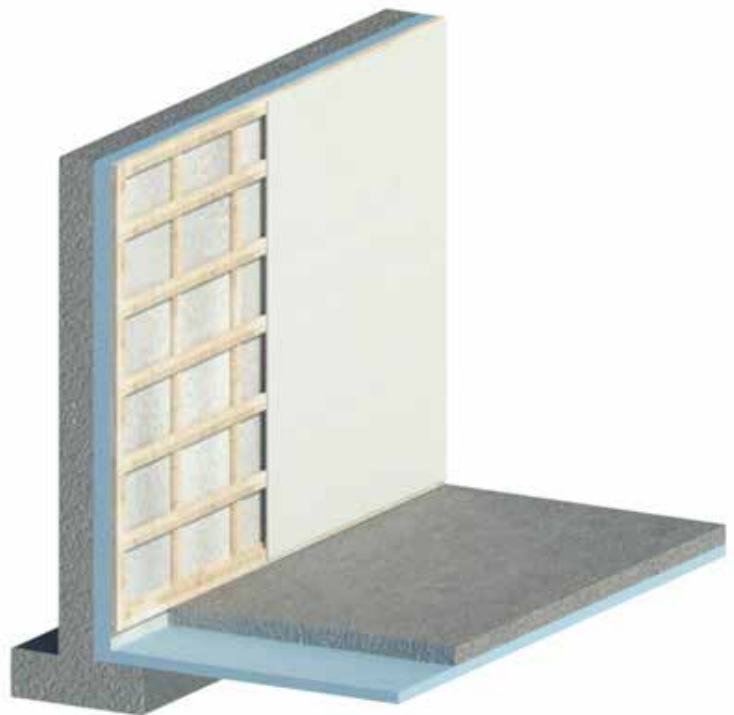
NOVOFOIL®



FOUNDATION WALL ASSEMBLY

EXT. AIR
8" FOUNDATION WALL
3" NOVOFOIL R-18.40 RIGID INSULATION
1X3 VERTICAL FURRING @ 24" c/c
1X3 HORIZONTAL FURRING @ 16" c/c
½" DRYWALL
INT. AIR

▲ WALL 3



NOVOFOIL®



NOVOFOIL®



Installation guide

LAMINATED INSULATION BOARD WITH
REFLECTIVE VAPOUR BARRIER

Product Description

NOVOFOIL® is a vapour barrier material consisting of an expanded polystyrene panel and an aluminium membrane that reduces the passage of water vapour. NOVOFOIL® must be installed on the warm side of the foundation walls and the reflective membrane must be visible from the inside of the insulated room.

Panel Dimensions

Thickness: 3 in (76 mm)

Width: 48 in (1220 mm)

Length: 96 in (2440 mm) and 100 in (2540 mm)

Resistances & Standards

Thermal resistance

According to C-518: 1 in (25 mm) R 3,87 (RSI 0,68)

According to C-1363: 3 in (76 mm) R 17,11 (RSI 3,013)

To consider the thermal contribution of the reflective effect, the product must be installed in accordance with the specified assembly and instructions based on a laboratory test that meets the ASTM-1363 standard. Please refer to the Technical Data Sheet – R-Value depending on the assembly.

Compressive strength

According to ASTM D-1621: 13 lb/in² (95 kPa)

Flexural strength

According to ASTM C-203: 61 psi (414 kPa)

Water vapour permeability

According to ASTM E-96: 3,67 perm (208 ng/Pa. s. m)

Water absorption

According to ASTM D-2842: 4.1%

Banks

Rebated along the length of the panel.

Work Execution

Foundation Inspection

Ensure that the foundation walls are watertight before starting the work.

Ensure that work to be done by other trades is completed before installing insulation.

Ensure that foundation walls are straight, smooth and dry, and that they are free of snow, ice, frost, dust and debris.

Do not begin work until the above deficiencies have been corrected.

Installation of the panels

Wall Assembly 1 (Installation with 1x3 Vertical Furring)

Step 1

Mechanically fasten 3 in (76 mm) NOVOFOIL® rigid insulation panels to the interior side of 8 in (200 mm) poured concrete foundation walls. The aluminum membrane must face the interior of the basement. Install ¾ in x 2½ in (19 x 64 mm) perimeter wood furring strips around the walls and openings. Furring strips must also be installed vertically at 24 in (610 mm) on center.

Step 2

Seal all panel joints and any cutouts made for electrical boxes or wires (if applicable) using 2 in (50 mm) wide vapor barrier tape to ensure airtightness. Also seal all perimeter joints at the floor and around openings such as doors and windows.

Step 3

Ensure air gaps are sealed around the entire perimeter—air leakage must be blocked. Install electrical wires between the NOVOFOIL® panels and the gypsum panels. For electrical installations, refer to the current Québec Master Electricians' Code.

Step 4

Install gypsum panels by screwing them into the wood furring strips.

Wall Assembly 2 (Installation with 2x3 Vertical Furring)

Step 1

Mechanically fasten 3 in (76 mm) NOVOFOIL® rigid insulation panels to the interior side of 8 in (200 mm) poured concrete foundation walls. The aluminum membrane must face the interior of the basement. Install 1½ in x 2½ in (38 x 64 mm) perimeter wood furring strips around the walls and openings. Furring strips must also be installed vertically at 24 in (610 mm) on center.

Step 2

Seal all panel joints and any cutouts made for electrical boxes or wires (if applicable) using 2 in (50 mm) wide vapor barrier tape to ensure vapor tightness. Also seal all perimeter joints at the floor and around openings such as doors and windows.

Step 3

Ensure that all air gaps are sealed around the entire perimeter—in other words, make sure to block any air leakage. Install electrical wires between the NOVOFOIL® panels and the drywall panels. For electrical installations, refer to the current Québec Master Electricians' Code.

Step 4

Install drywall panels by screwing them into the wood furring strips.

Wall Assembly 3 (Installation with Double 1x3 Furring)

Step 1

Mechanically fasten 3 in (76 mm) NOVOFOIL® rigid insulation panels to the interior side of 8 in (200 mm) poured concrete foundation walls. The aluminum membrane must face the interior of the basement. Install ¾ in x 2½ in (19 x 64 mm) perimeter wood furring strips around the walls and openings. Furring strips must also be installed vertically at 24 in (610 mm) on center and horizontally at 16 in (406 mm) on center.

Step 2

Seal all panel joints and any cutouts made for electrical boxes or wires (if applicable) using 2 in (50 mm) wide vapor barrier tape to ensure vapor tightness. Also seal all perimeter joints at the floor and around openings such as doors and windows.

Step 3

Ensure that all air gaps are sealed around the entire perimeter. In other words, make sure to block any air leaks. Install electrical wires between the NOVOFOIL® panels and the drywall panels. For electrical installations, please refer to the current Québec Master Electricians' Code.

Step 4

Install the drywall panels by screwing them into the wood furring strips.

Recommendations

Ensure that the rim joists are properly sealed against air infiltration and well insulated to prevent moisture issues.

Insulate the entire height of the foundation walls.

Provide a clearance of ¼ in (6 mm) to ½ in (12 mm) between the floor and the furring strips.

Warning

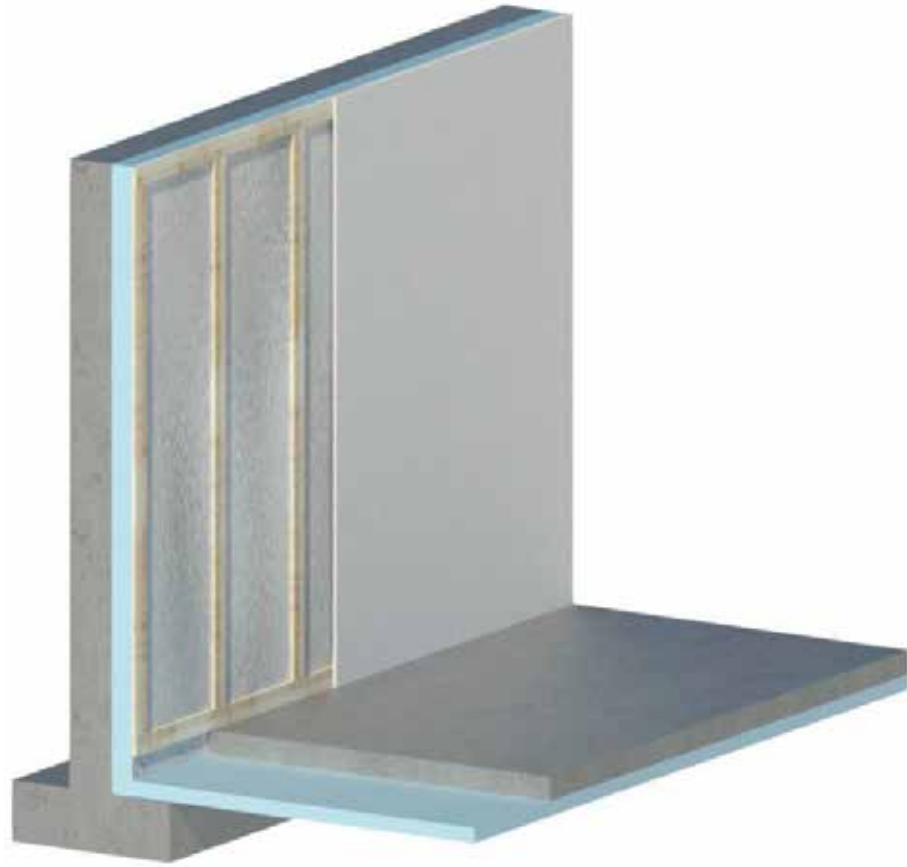
Ensure that the rim joists are properly sealed against air infiltration and well insulated to prevent moisture issues.

Insulate the entire height of the foundation walls.

Provide a clearance of ¼ in (6 mm) to ½ in (12 mm) between the floor and the furring strips.

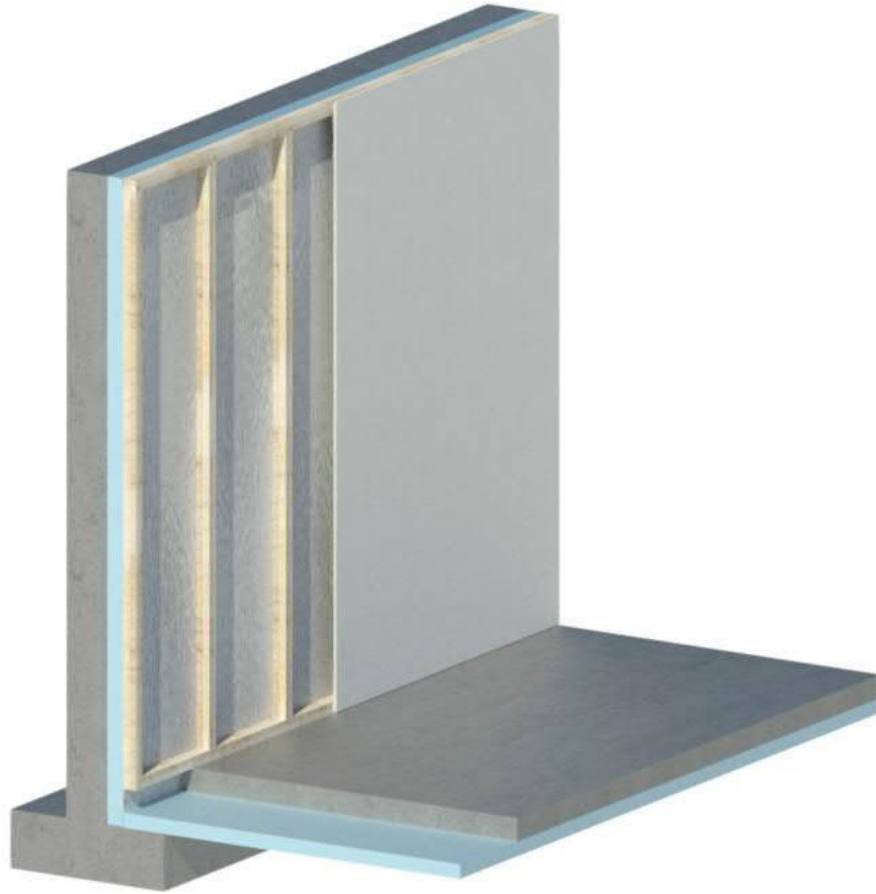
NOVOFOIL®

Wall Assembly 1 (R-18.40)



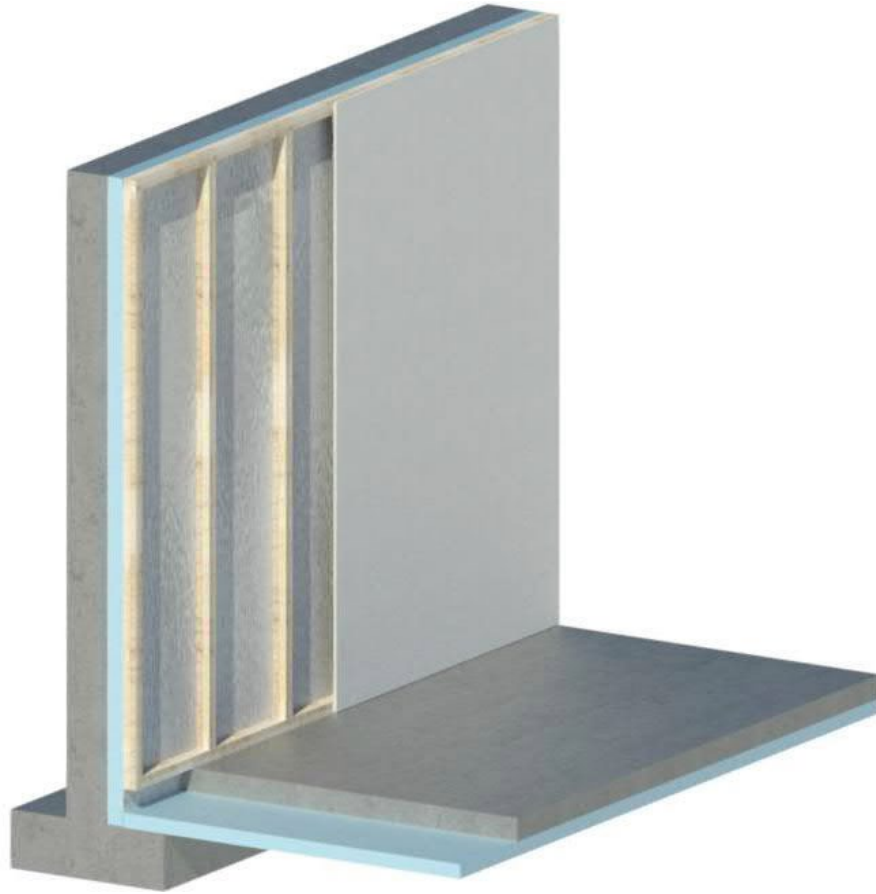
NOVOFOIL®

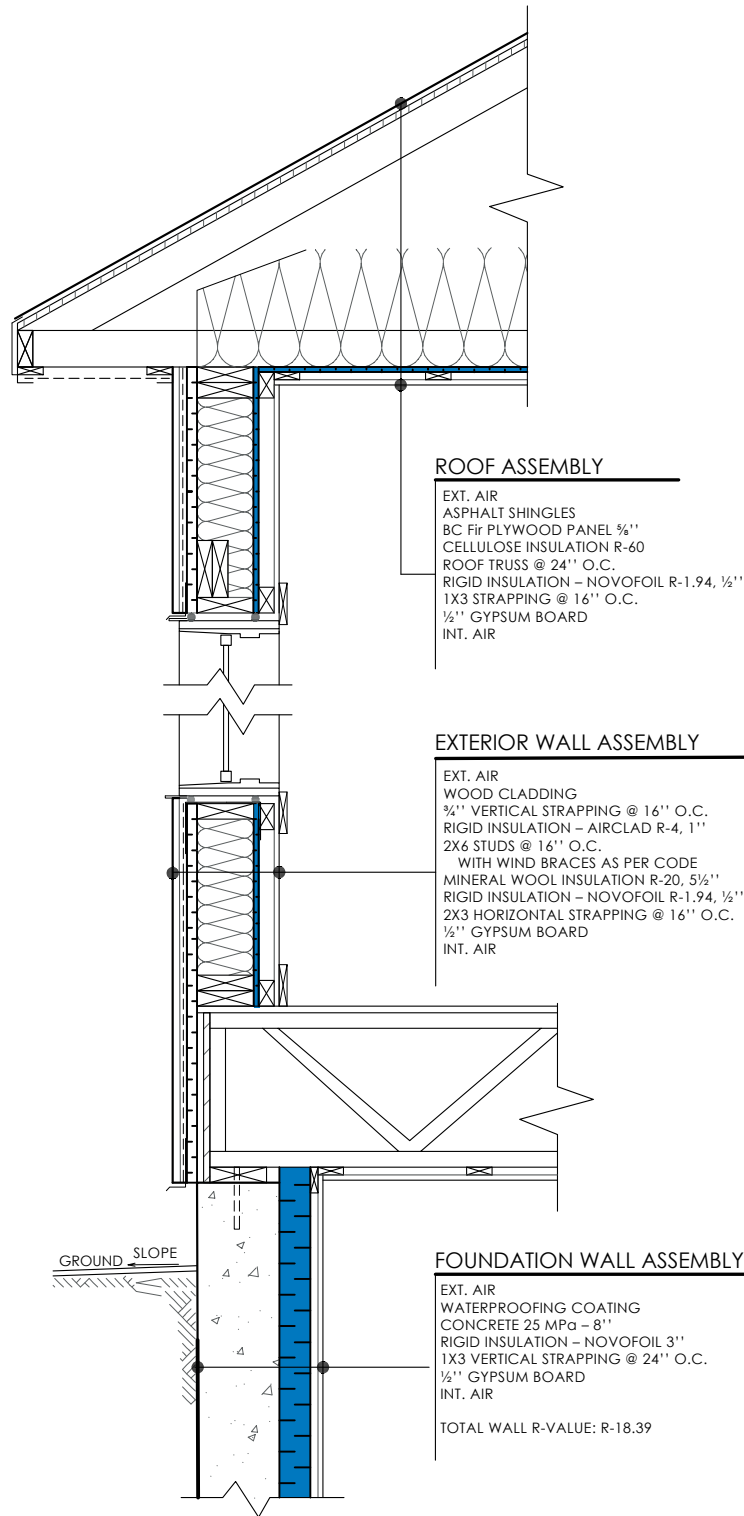
Wall Assembly 2 (R-18.91)



NOVOFOIL®

Wall Assembly 3 (R-18.40)





Polyform

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Granby, QC J2J 1A6

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DESCRIPTION WALL SECTION – VAPOR BARRIER INSULATION PANEL APPLICATION

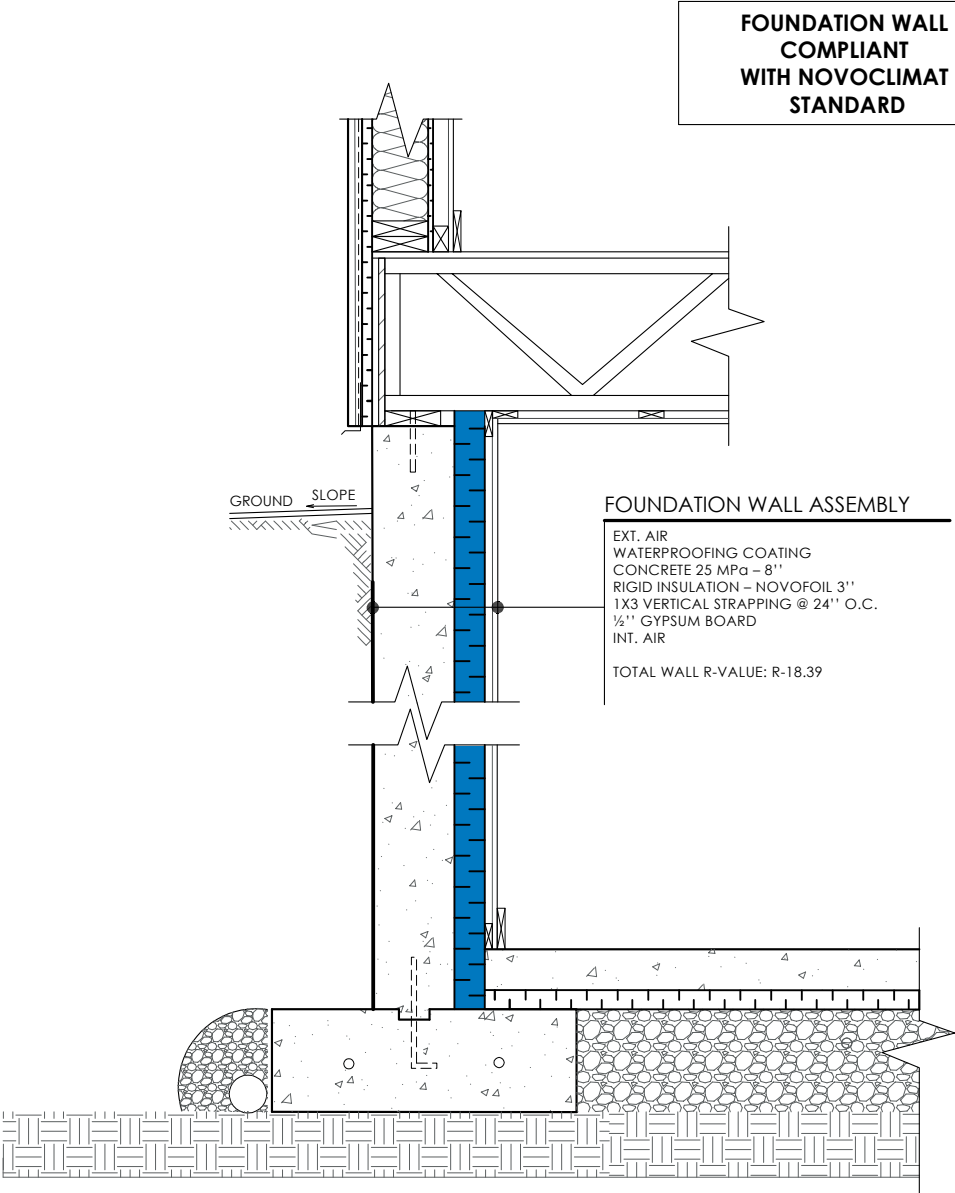
PRODUCT NOVOFOIL

SCALE 3/4"=1'-0"

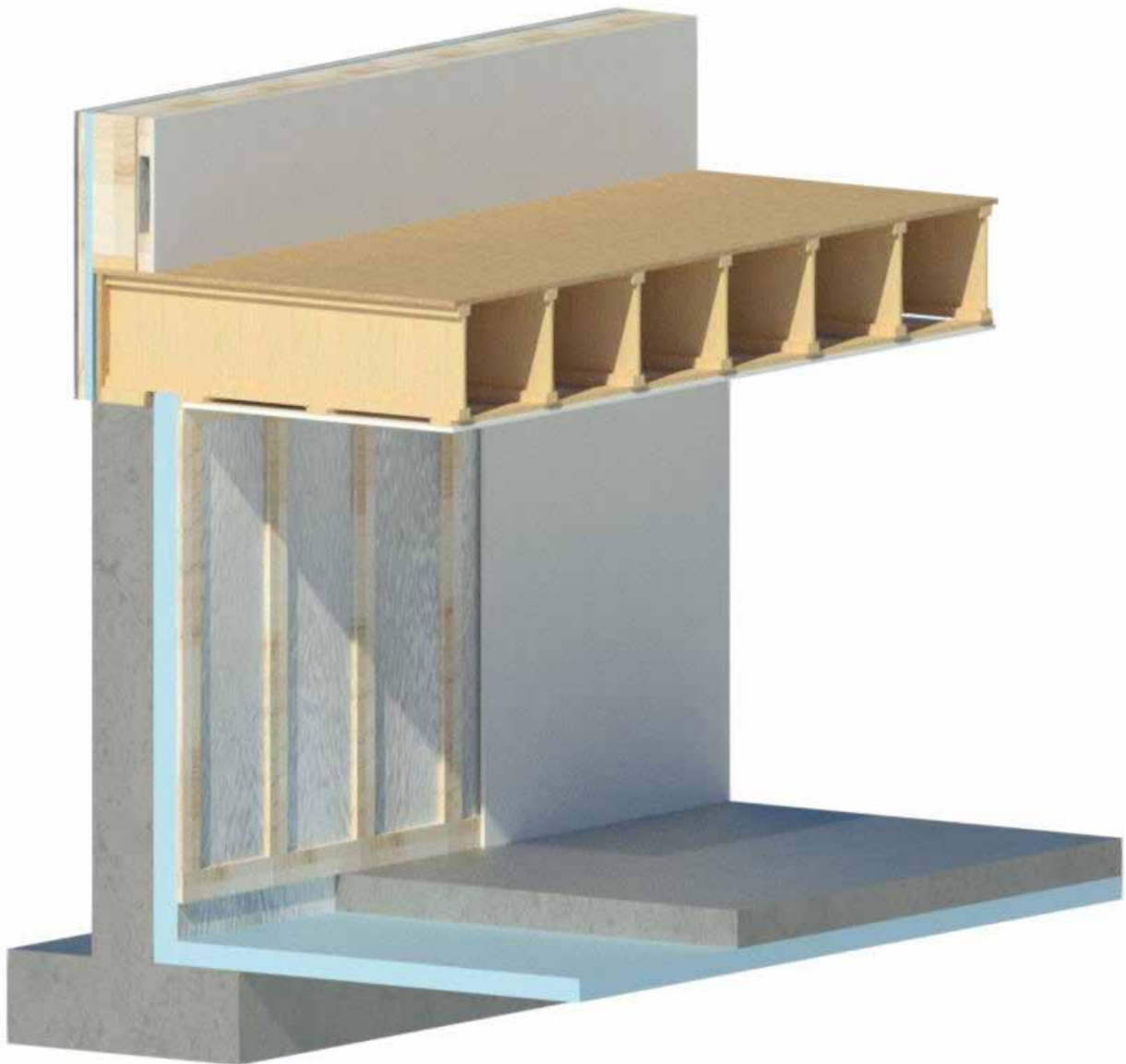
DATE 25/01/2021

NO. 2.01





Polyform 855 Bd Industriel, Granby, QC J2J 1A6	THE INFORMATION CONTAINED IN THIS DRAWING IS A PRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.		DESCRIPTION FOUNDATION WALL SECTION – VAPOR BARRIER INSULATION PANEL APPLICATION	
			PRODUCT NOVOFOIL	
			SCALE 3/4"=1'-0"	
			DATE 02/09/2021	NO. 2.02



AIRCLAD®

Air-Barrier Insulation Panel

AIRCLAD®

DESCRIPTION

High density expanded polystyrene air barrier insulation board

- 4 ft x 8 ft (1219mm x 2438mm) or 4 ft x 9 ft (1219mm x 2743mm)
- Laminated air-barrier membrane on 1 side
- Benchmarks at 8 in (203mm) intervals printed on the membrane
- Shiplapped on 2 sides

CCMC 13488-R, sheathing membrane

CCMC 13490-R, air-barrier board



Made in Canada



AIRCLAD®

PRODUCT FEATURES

APPLICATIONS

Residential, commercial, industrial and institutional construction

Insulation for exterior walls

ADVANTAGES

Superior Performance

Two installation steps in one: Laminated air-barrier membrane on the board with benchmarks at 8 in (203mm) intervals

Easy to handle and quick to install

Permanent insulation value

Energy savings through the elimination of thermal bridges

Contains recycled material

Can be handled without health hazards and is non-irritating to skin

TECHNICAL DATA SHEET

EPS Physical Properties	ASTM Test Method	ULC S701 Type 2
Thermal resistance 1 in (25mm) hr·°F·ft ² /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 : 2,35 Max : (133)
Dimensional stability (%)	D-2126	Max : 1,5
Flexural strength lb/in ² (kPa)	C-203	Min : 35 Min : (240)
Water absorption (%)	D-2842	Max : 4,0
Compressive properties lb/in ² (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.		

According to project requirements, boards can be cut to the desired thickness before laminating with the air-barrier membrane.

AVAILABLE SIZES

4 ft x 8 ft (1219mm x 2438mm) and 4 ft x 9 ft (1219mm x 2743mm) in thickness of :

1 in (25mm), R-4

1 1/2 in (38mm), R-6

2 in (51mm), R-8

AIRCLAD® board meets the **new requirements of section 11** on Energy efficiency of the Quebec Construction Code chapter for insulation of exterior walls and satisfies most of the new requirements set for Eastern Canada. Check with your local Construction Building Code.

ISO 9001:2015

Certified quality management system ISO 9001:2015.



The expanded polystyrene used to manufacture AIRCLAD® 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.

AIRCLAD®

INSTALLATION TIPS

1. Apply to exterior walls only.
2. Install vertically or horizontally on exterior wall studs, making sure the air-barrier membrane is facing toward the exterior.
3. Attach boards using mechanical anchoring.
4. Seal joints with air-barrier adhesive tape.
5. Match the board joints with the wall studs.

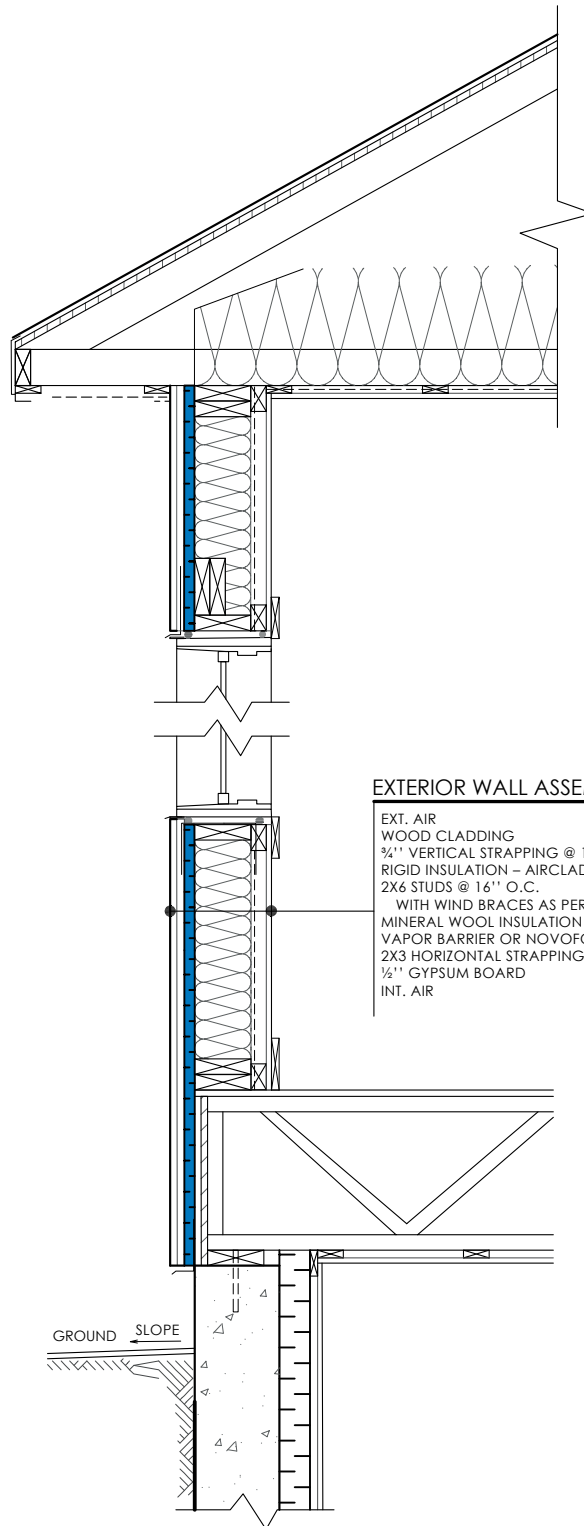


AIRCLAD®



AIRCLAD®





EXTERIOR WALL ASSEMBLY

EXT. AIR
WOOD CLADDING
¾" VERTICAL STRAPPING @ 16" O.C.
RIGID INSULATION – AIRCLAD R-4, 1"
2X6 STUDS @ 16" O.C.
WITH WIND BRACES AS PER CODE
MINERAL WOOL INSULATION R-20, 5½"
VAPOR BARRIER OR NOVOFOIL R-1.94, ½"
2X3 HORIZONTAL STRAPPING @ 16" O.C.
½" GYPSUM BOARD
INT. AIR

Polyform

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DESCRIPTION WALL SECTION – AIR BARRIER INSULATION
PANEL APPLICATION WITH WOOD SIDING

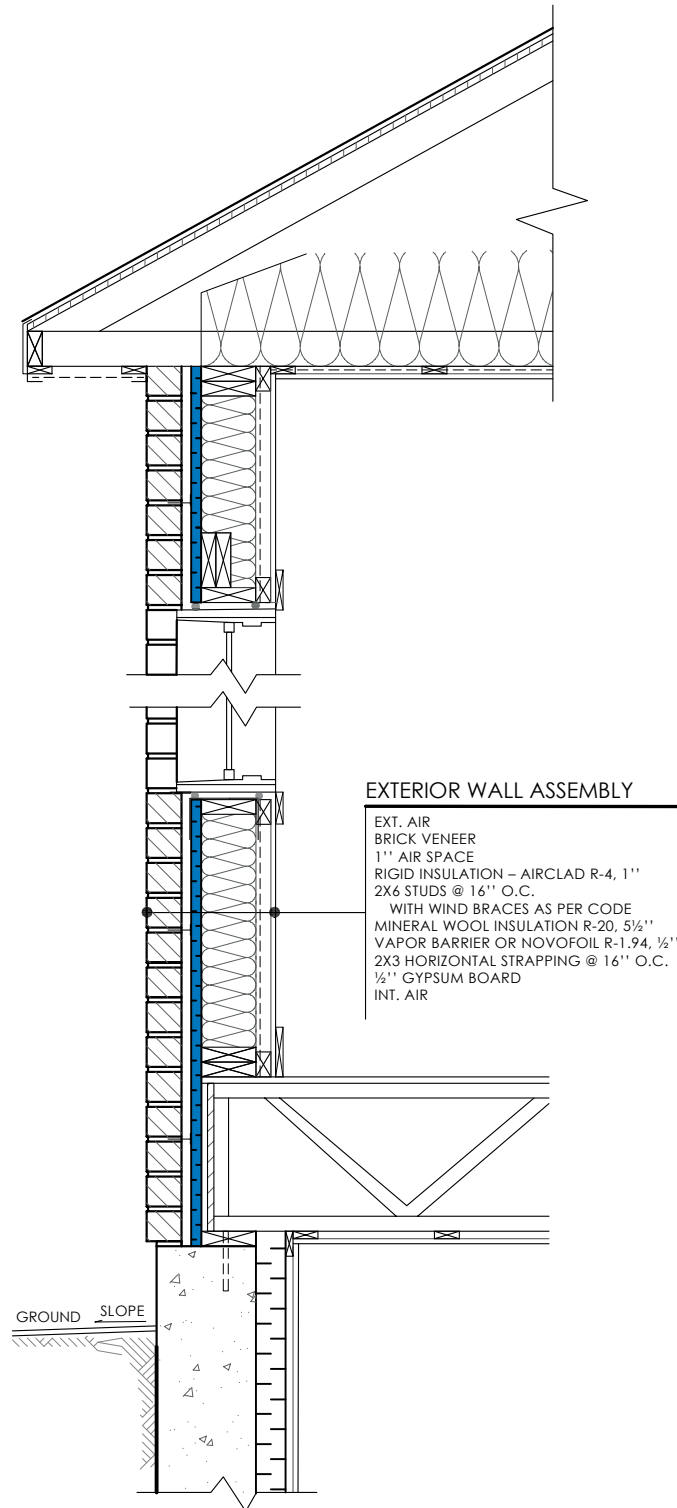
PRODUCT AIRCLAD

SCALE 3/4"=1'-0"

DATE 02/09/2021

NO. 3.01





Polyform

855 Bd Industriel,
Granby, QC J2J 1A6

THE INFORMATION CONTAINED IN THIS DRAWING IS A PRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.

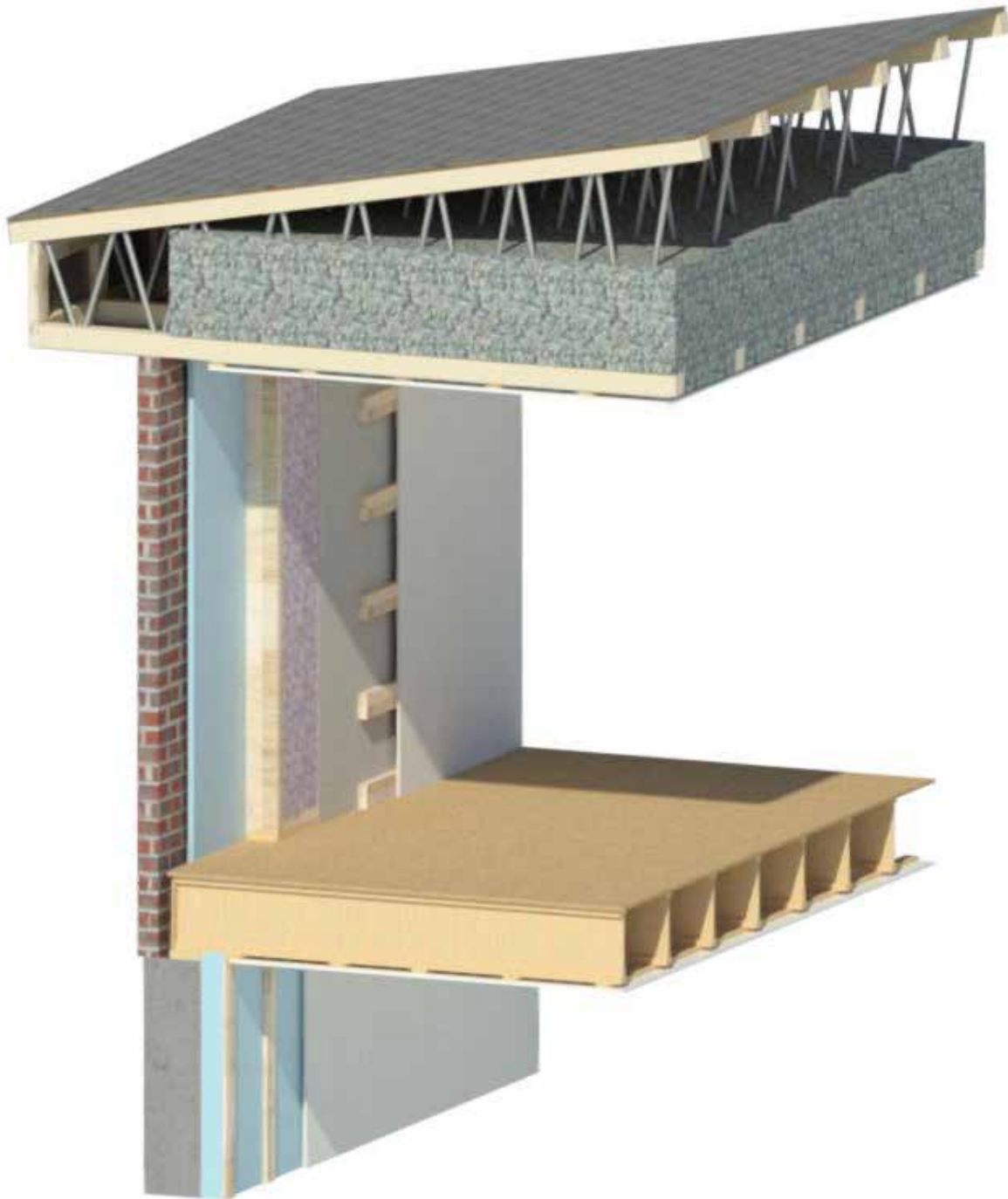
DESCRIPTION WALL SECTION – AIR BARRIER INSULATION
PANEL APPLICATION WITH BRICK FINISH

PRODUCT AIRCLAD

SCALE 3/4"=1'-0"

DATE 02/09/2021

NO. 3.02



ISOMAX®

Continuous Footing Insulation System

ISOMAX[®]

DESCRIPTION

Footing insulation system

- 4 in (102mm) thick moulded board with grooves to insert side panels
- Shiplapped at both ends
- 1 ft x 8 ft (305mm x 2438mm) side panels
- Universal inside and outside corner panels



Made in Canada



PRODUCT FEATURES

APPLICATIONS

Residential and commercial construction

Insulation for footings

ADVANTAGES

Superior Performance

Two construction steps in one: Allows pouring concrete for the slab and the footing at the same time

Lightweight and easy to handle

Minimal excavation required and requires less concrete

Permanent insulation value

100% recyclable

Can be handled without health hazards and is non-irritating to skin

TECHNICAL DATA SHEET

EPS Physical Properties	ASTM Test Method	Type 2 HD
Thermal resistance 1 in (25mm) hr·°F·pi²/BTU (m²·°C/W)	C-518	Min : 4,15 Min : (0,73)
Water vapour permeability US Perm. (ng/Pa·s·m²)	E-96	Max : 3,5 Max : (200)
Dimensional stability (%)	D-2126	Max : 1,5
Flexural strength lb/in² (kPa)	C-203	Min : 38 Min : (262)
Water absorption (%)	D-2842	Max : 2,0
Compressive properties lb/in² (kPa)	D-1621	Min : 19 Min : (131)
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

4 in (102mm) thick with the following widths:

24 in (610mm), R-16

30 in (762mm), R-16

36 in (914mm), R-16

Some municipalities require soil testing and engineer approvals.

ISO 9001:2015

Certified quality management system ISO 9001:2015.



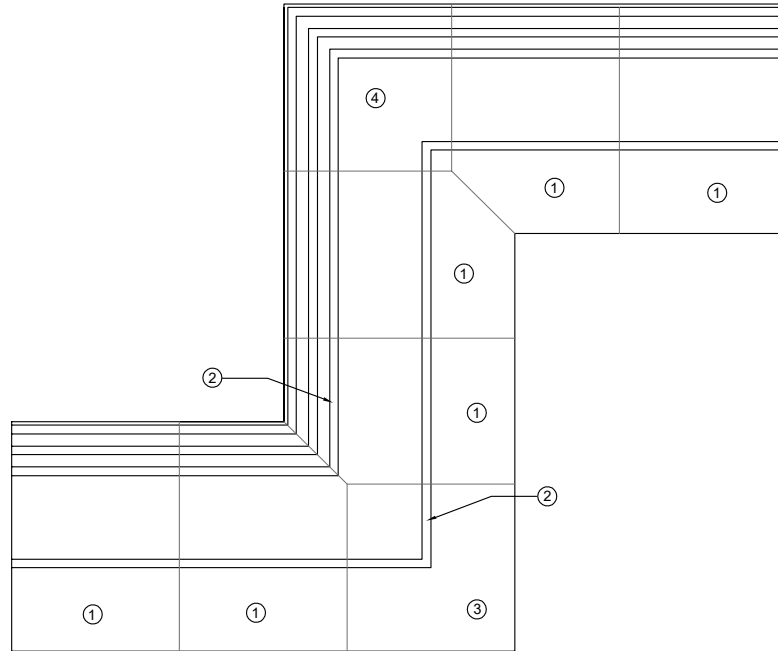
The expanded polystyrene used to manufacture ISOMAX® is Intertek certified (ETL Listed) in accordance with **ULC S701**.

Warning

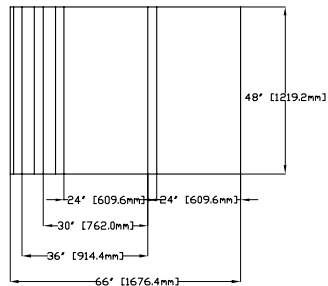
Flammable: interior applications require a protective barrier.

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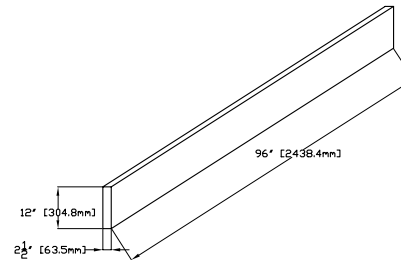
LIST OF COMPONENTS FOR ISOMAX® FORM SYSTEM



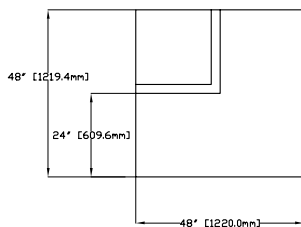
① STRAIGHT BOARD



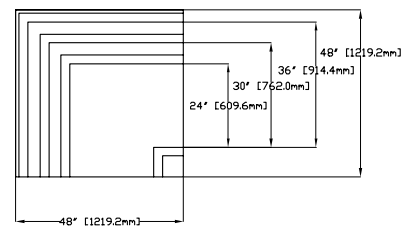
② EXTERIOR SIDE BOARD



③ EXTERIOR CORNER BOARD

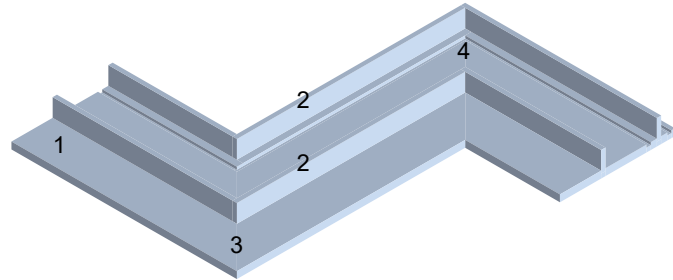
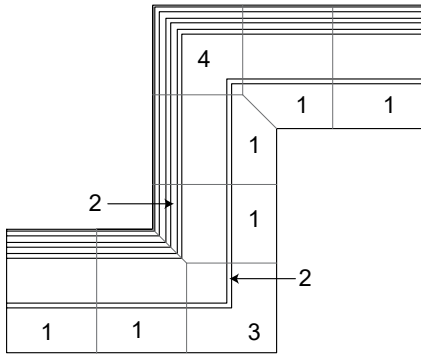


④ EXTERIOR CORNER BOARD

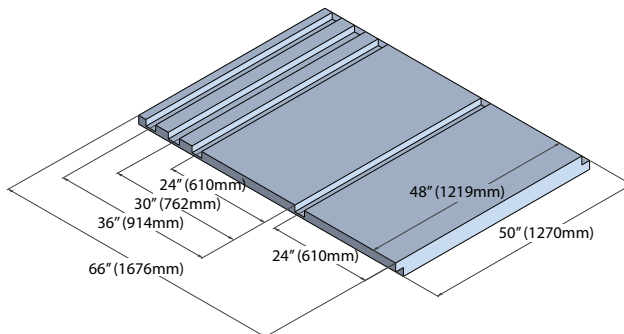


ISOMAX[®]

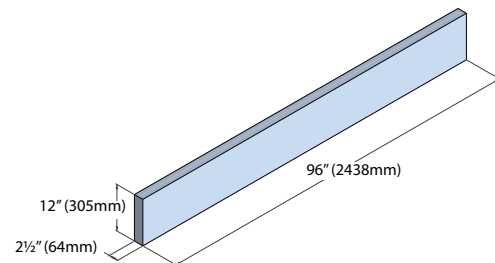
LIST OF COMPONENTS FOR ISOMAX[®] FORM SYSTEM



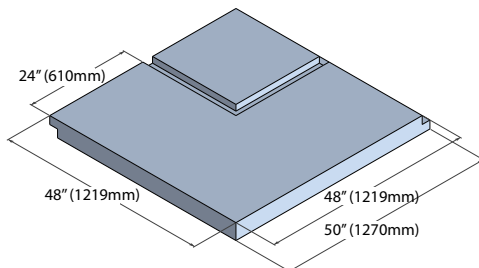
1 - STRAIGHT BOARD



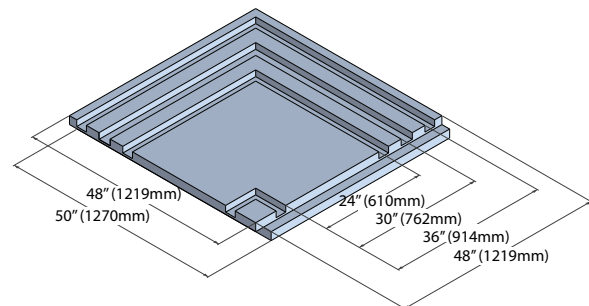
2 - SIDE BOARD



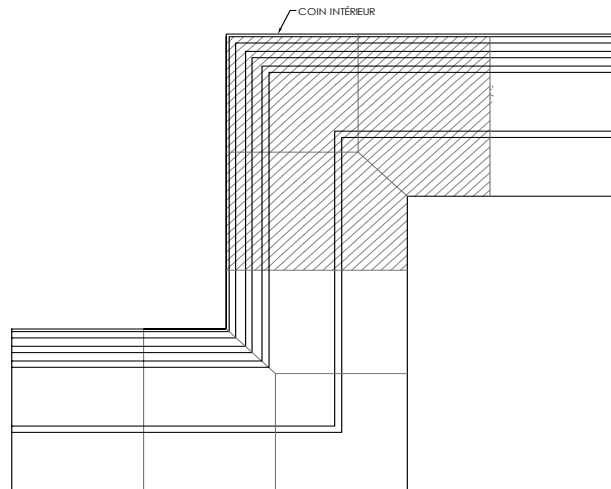
3 - EXTERIOR CORNER BOARD



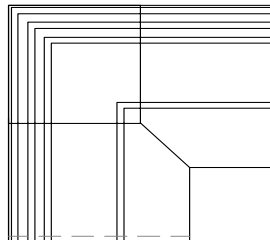
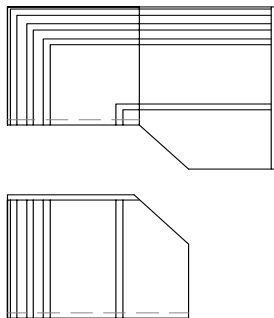
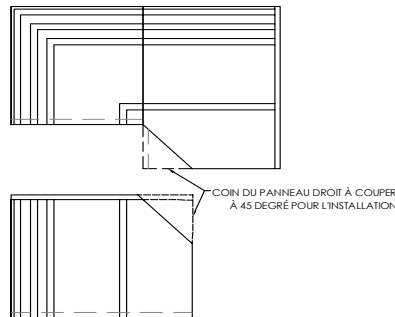
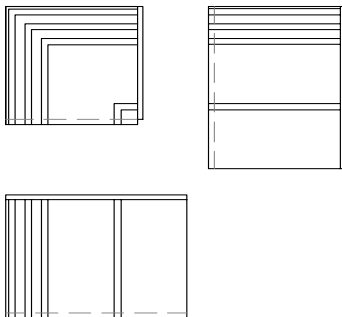
4 - INTERIOR CORNER BOARD



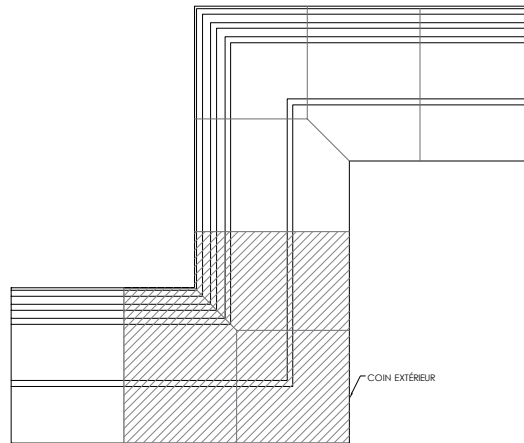
INSTALLATION TIPS Universal inside corner



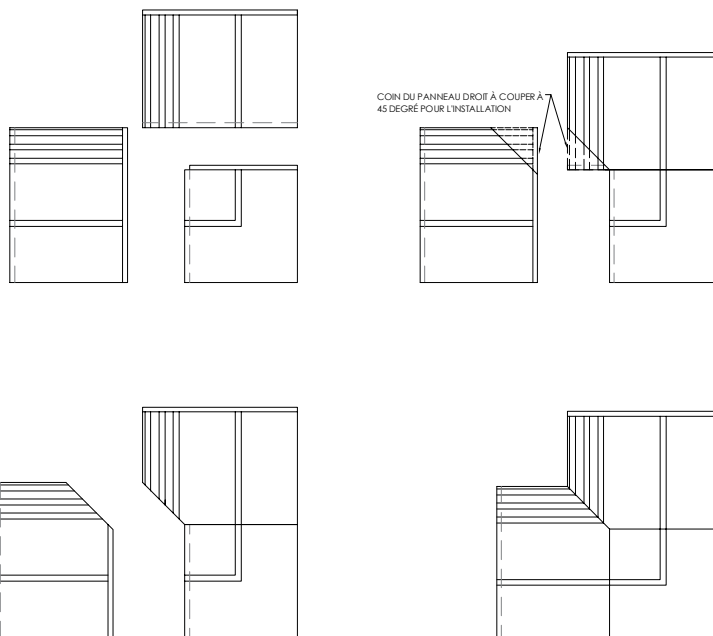
1. Place the panel in the corner.
2. Place one of the panels right, make a cut à 45°.
3. Repeat step 2 with a second panel.
4. Final assembly.



INSTALLATION TIPS Universal outside corner



1. Place the panel in the corner.
2. Place one of the panels right, make a cut à 45°.
3. Repeat step 2 with a second panel.
4. Final assembly.



INSTALLATION TIPS



1. Place universal corners first.



2. Place straight boards.



3. Place side boards.



4. Put the rebar reinforcement inside the footing.

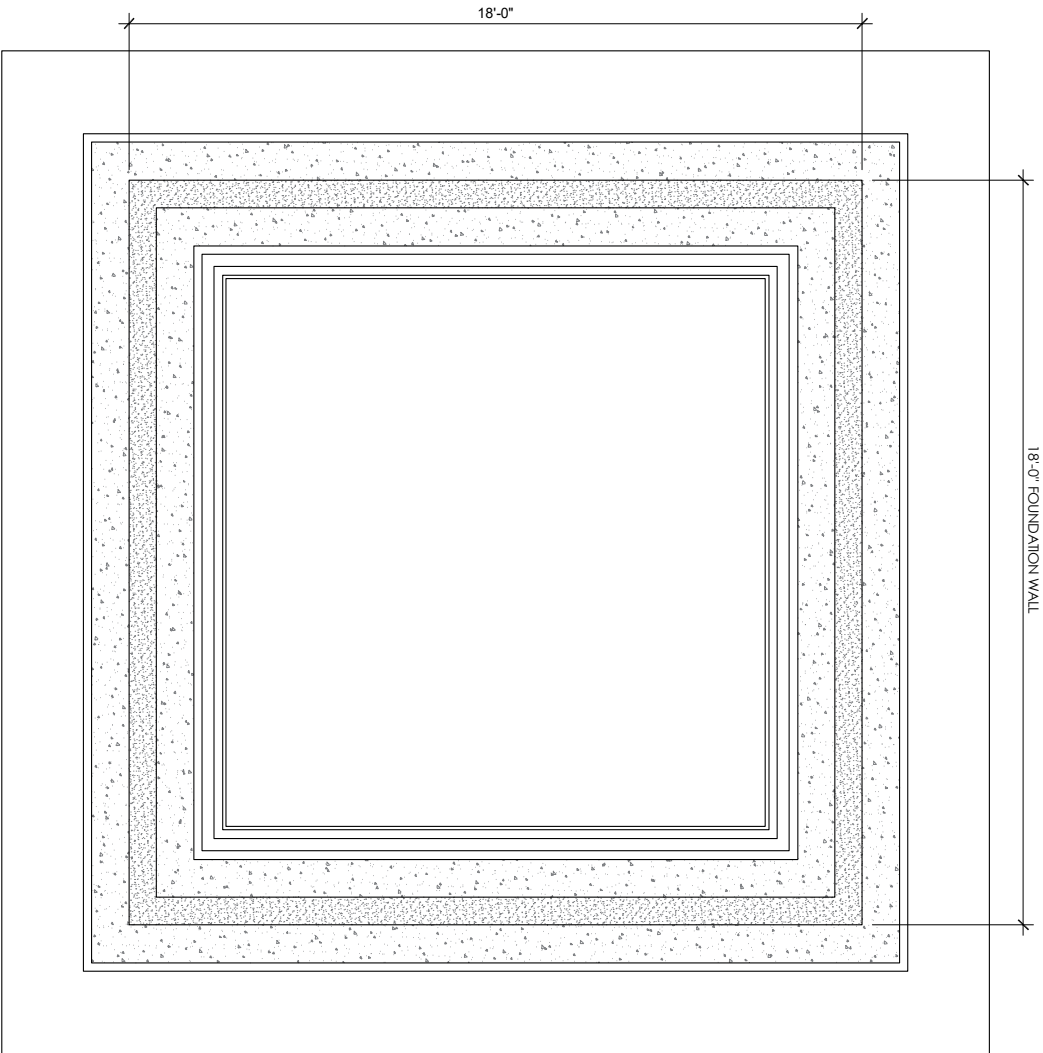


5. Strengthen the top of the formwork temporarily and pour in concrete

Note: Some municipalities require soil testing and engineering approvals.

ISOMAX[®]





CALCULATION METHOD TO DETERMINE THE REQUIRED NUMBER OF ISOMAX PANELS:

ADD UP THE LINEAR FEET OF THE FOUNDATION WALLS. THEN, DIVIDE THE TOTAL BY 4 FEET TO DETERMINE THE NUMBER OF STRAIGHT PANELS. NEXT, ADD THE NUMBER OF INTERIOR AND EXTERIOR CORNERS.

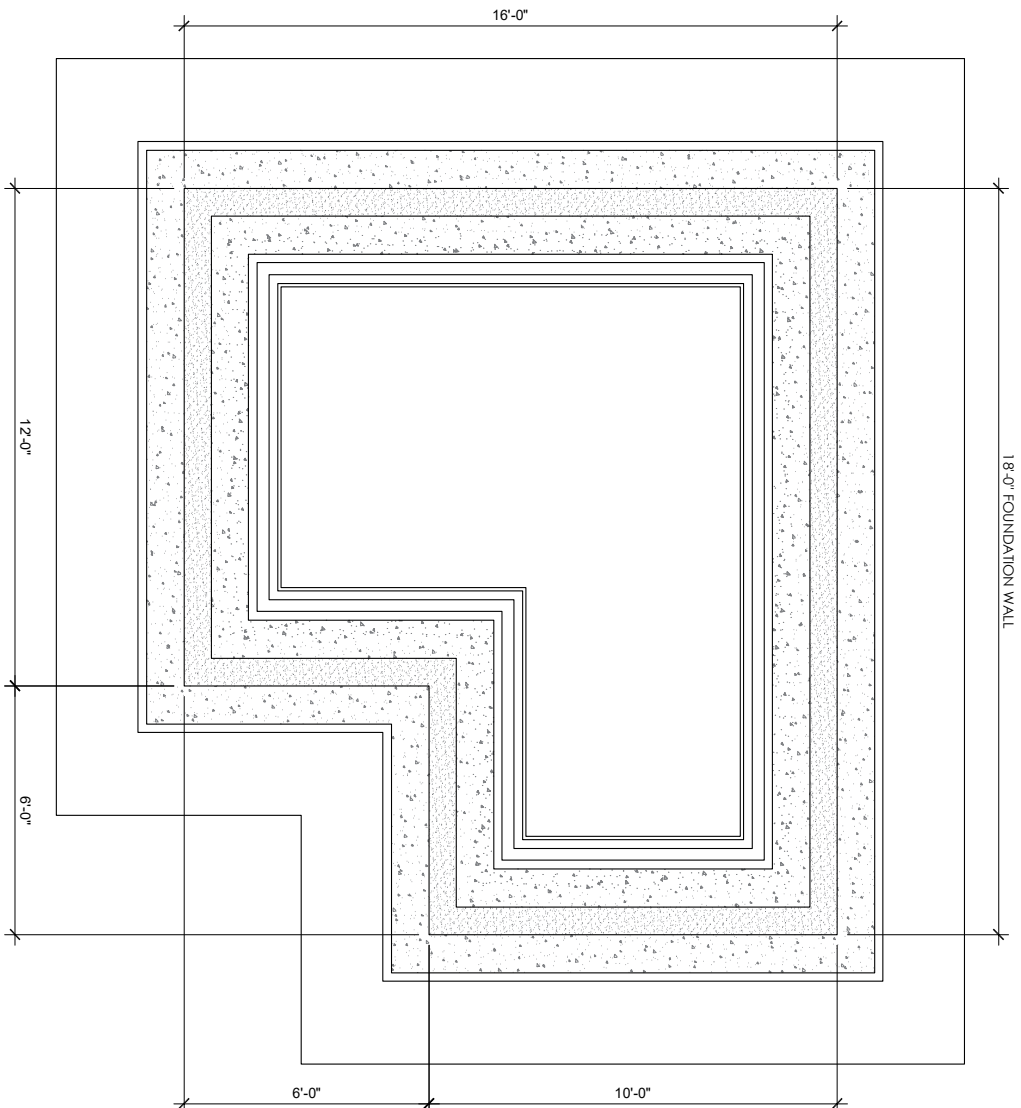
EXAMPLE: 18' X 4' = 72 LINEAR FEET
72' / 4' = **18** STRAIGHT PANELS AND
4 EXTERIOR CORNERS

THE TOTAL NUMBER OF FORMWORK SIDES IS THE SUM OF STRAIGHT PANELS AND CORNERS, WHICH EQUALS **22** IN THIS EXAMPLE. (**18 + 4 = 22**)



DESCRIPTION		CALCULATION METHOD	
PRODUIT		ISOMAX	
ÉCHELLE		1/4"=1'-0"	
DATE		16/06/2021	NO. 1.0

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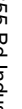
CALCULATION METHOD TO DETERMINE THE REQUIRED NUMBER OF ISOMAX PANELS:

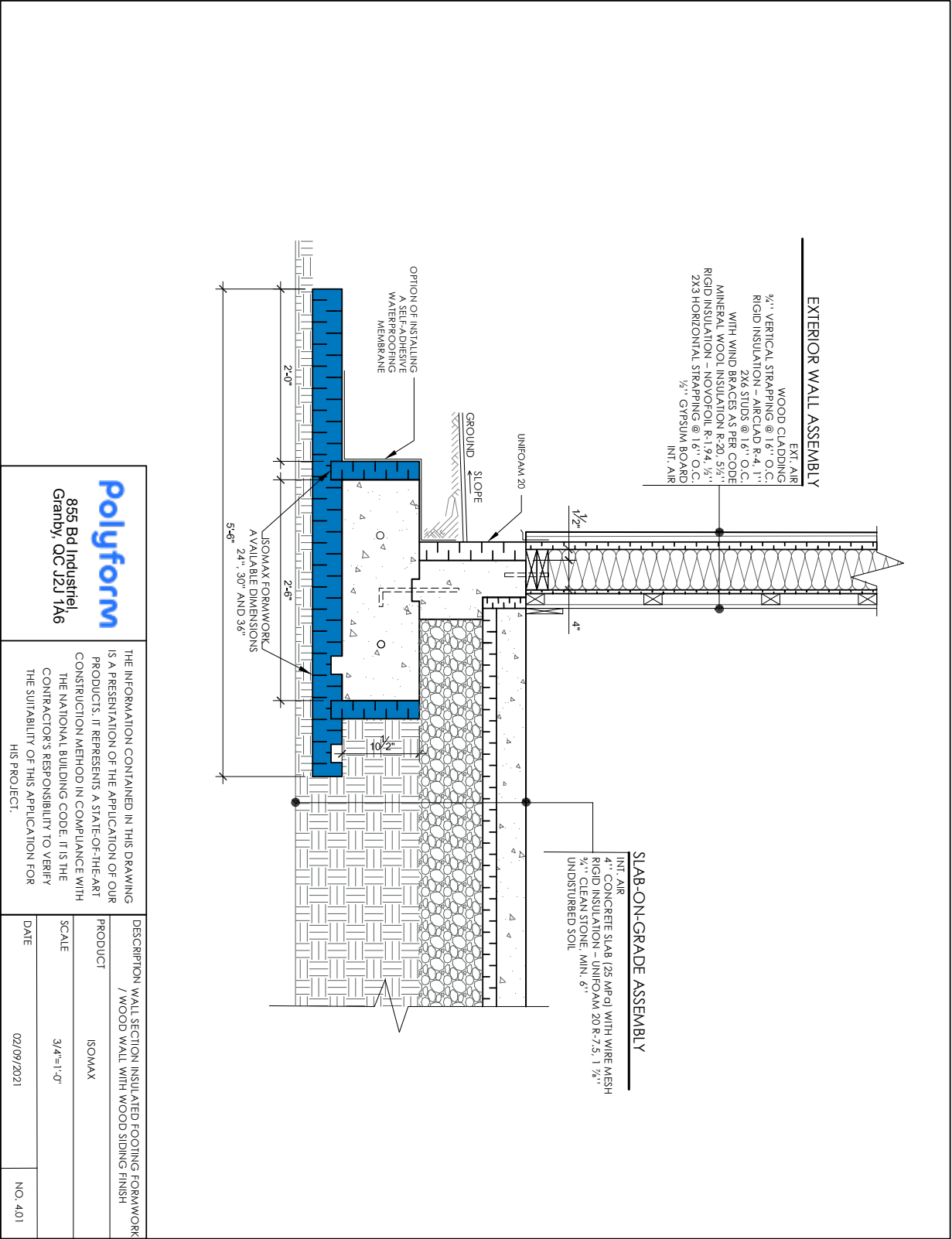
ADD THE LINEAR FEET OF THE FOUNDATION WALLS. THEN, DIVIDE THE TOTAL BY 4 FEET TO DETERMINE THE NUMBER OF STRAIGHT PANELS. NEXT, ADD THE NUMBER OF EXTERIOR AND INTERIOR CORNERS.

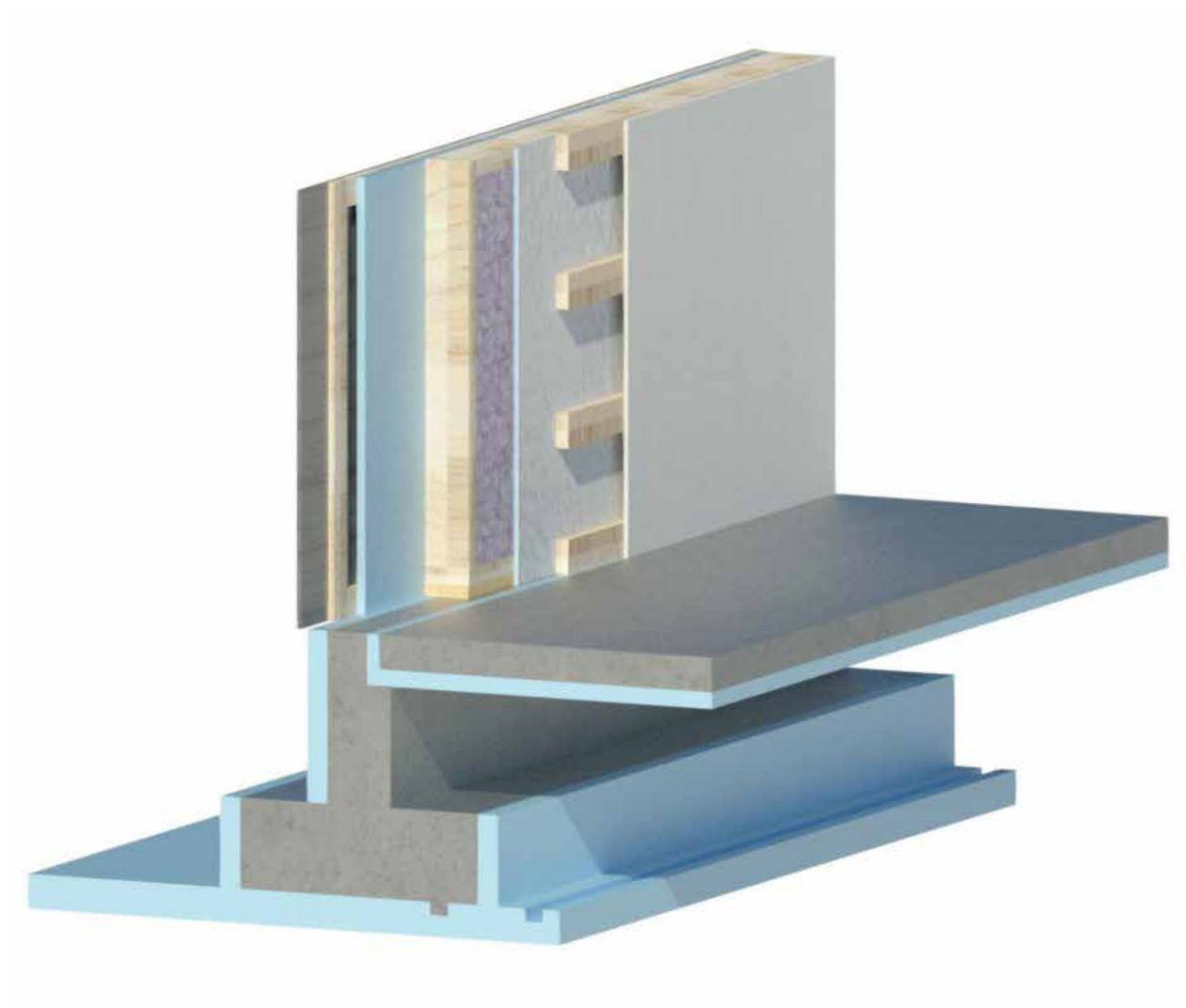
EXAMPLE: $18' + 10' + 6' + 6' + 12' + 1' 6' = 68$ LINEAR FEET
 $68 / 4' = 17$ STRAIGHT PANELS, **5** EXTERIOR
 CORNERS AND **1** INTERIOR CORNER.

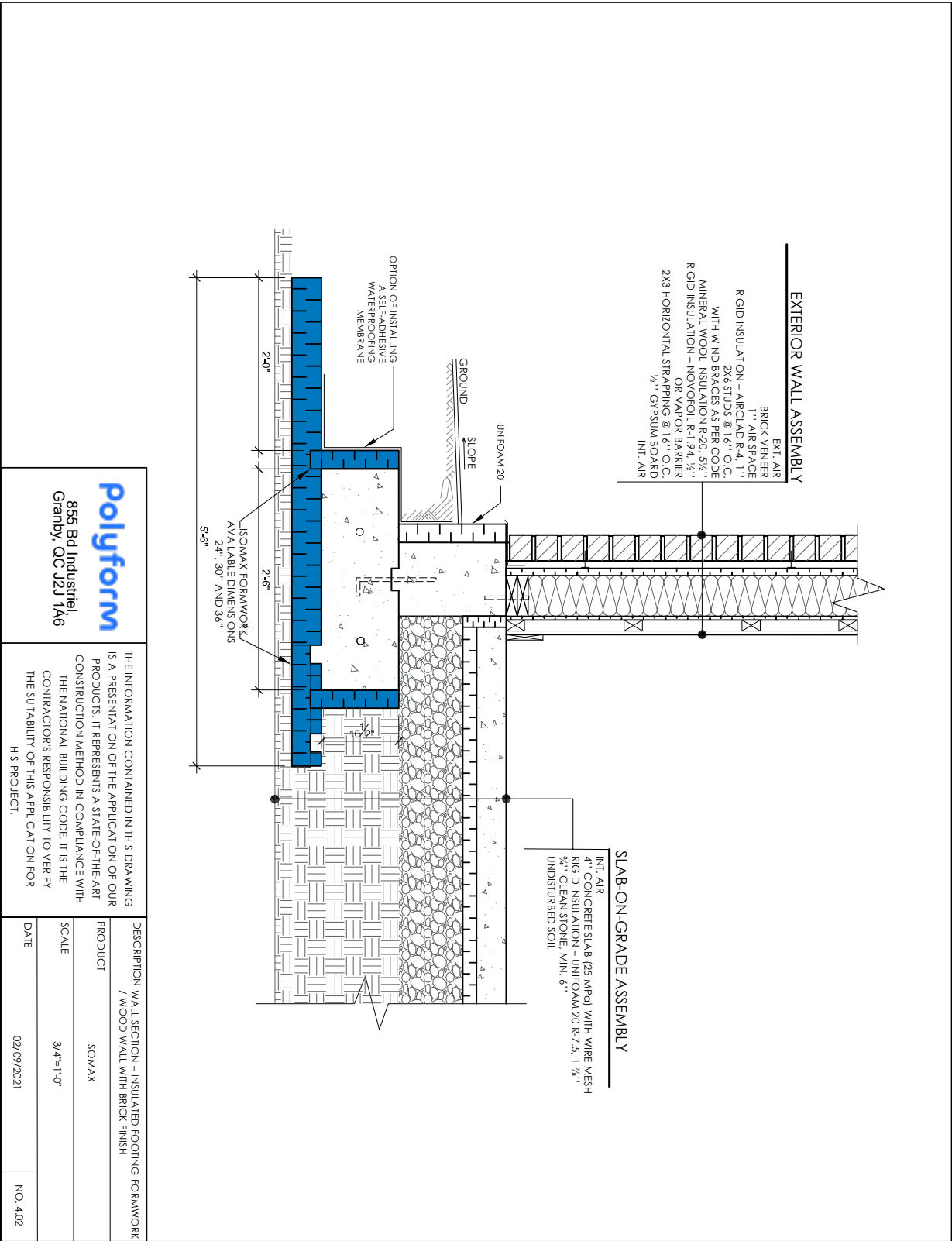
THE TOTAL NUMBER OF FORMWORK SIDES IS THE SUM OF THE STRAIGHT PANELS AND THE CORNERS, WHICH EQUALS **23** IN THIS EXAMPLE.
(17 + 5 + 1 = 23)

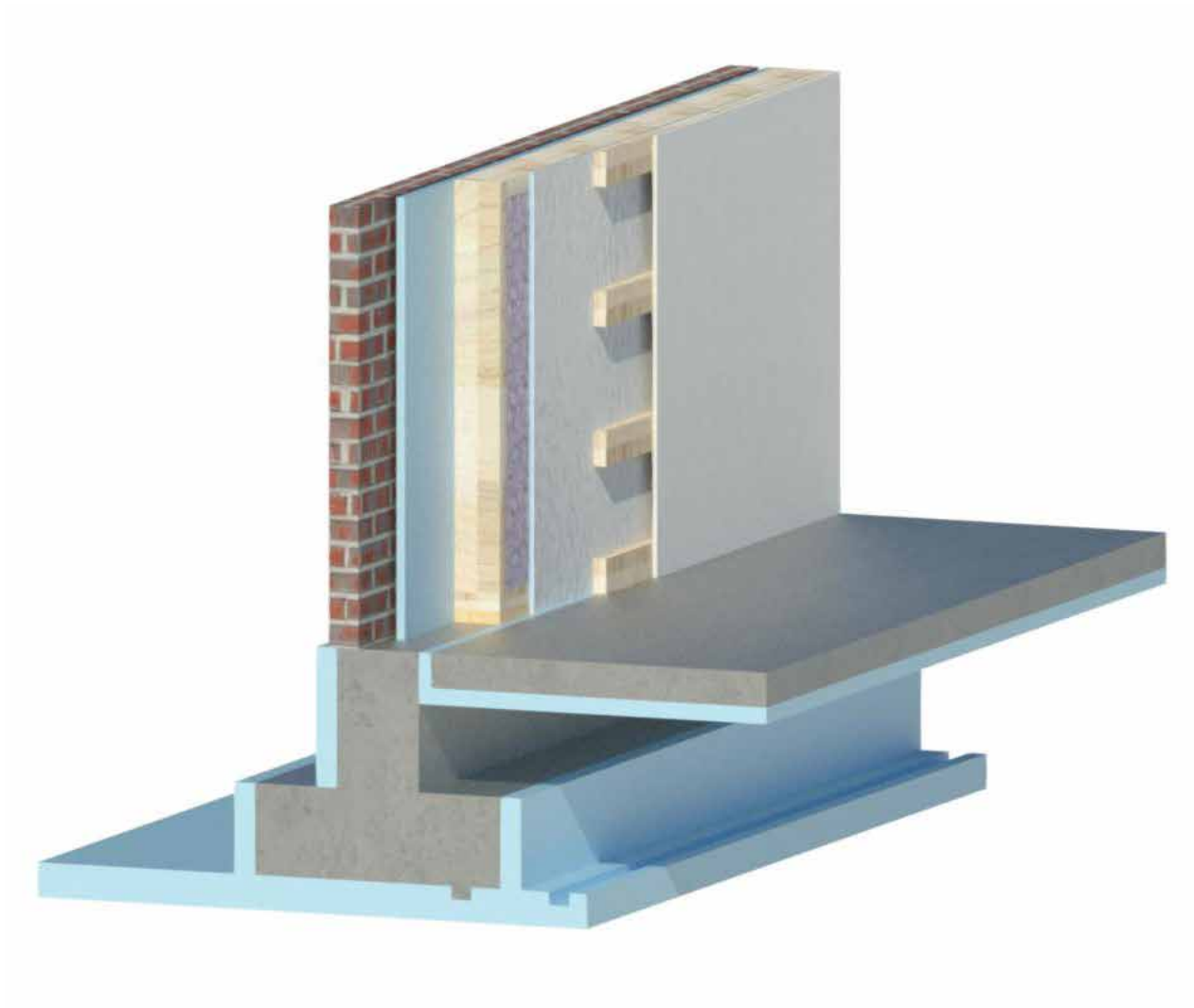


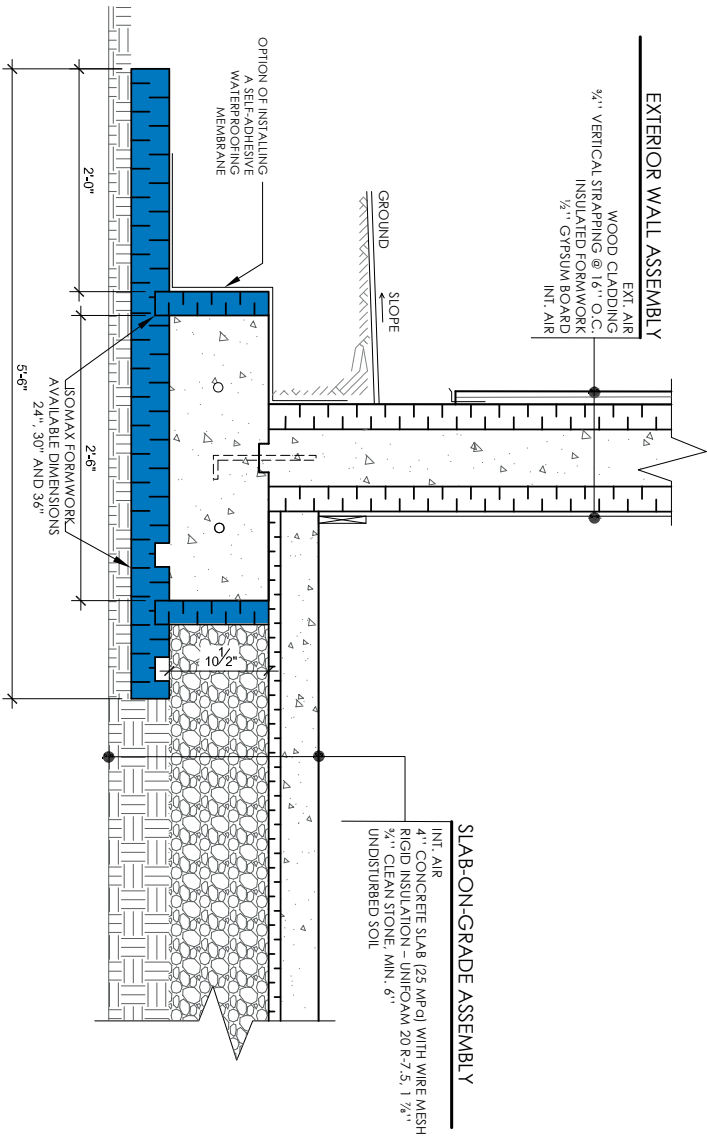
 855 Bd Industriel Granby, QC J2J 1A6	DESCRIPTION		INSULATED FOOTING FORMWORK DRAWING	
	PRODUCT		ISOMAX	
	SCALE		1/4"=1'-0"	
	DATE		27/01/2021	
				NO. 2.0



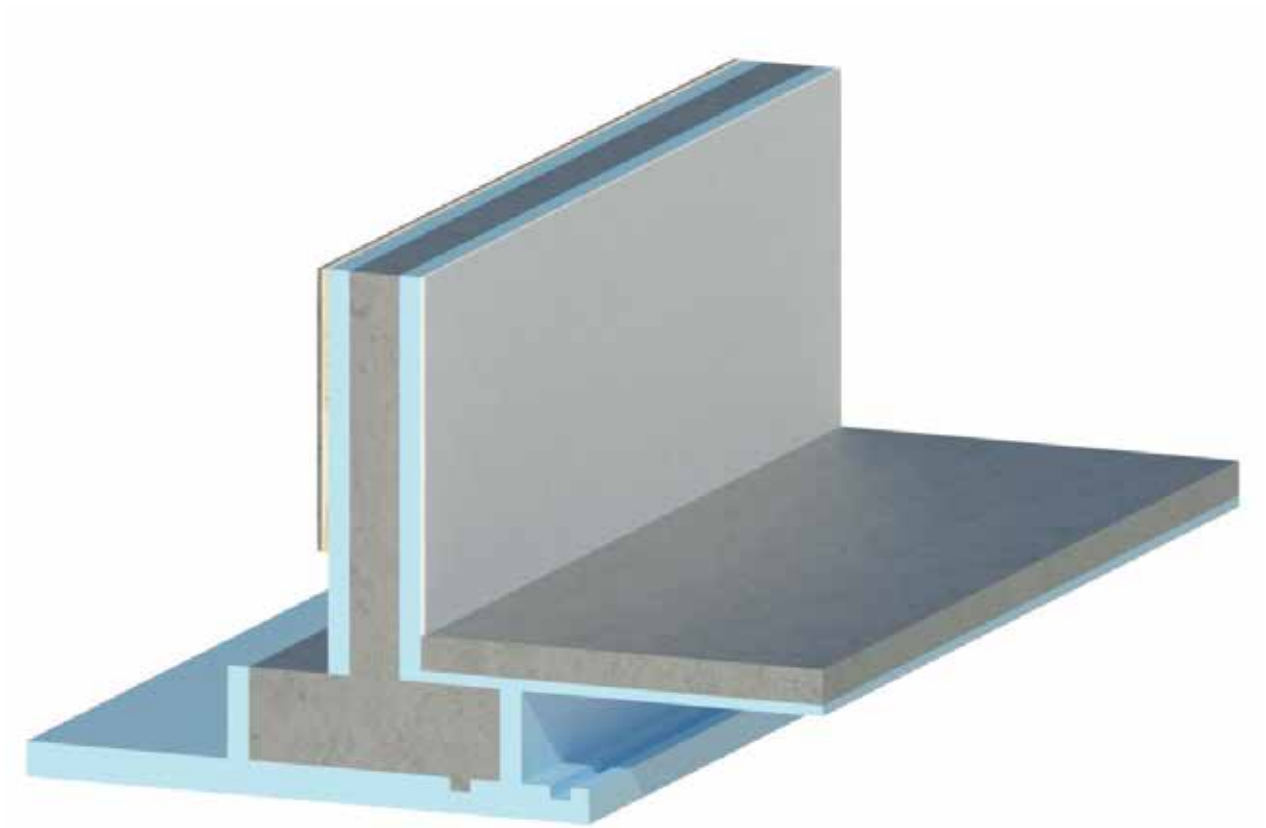


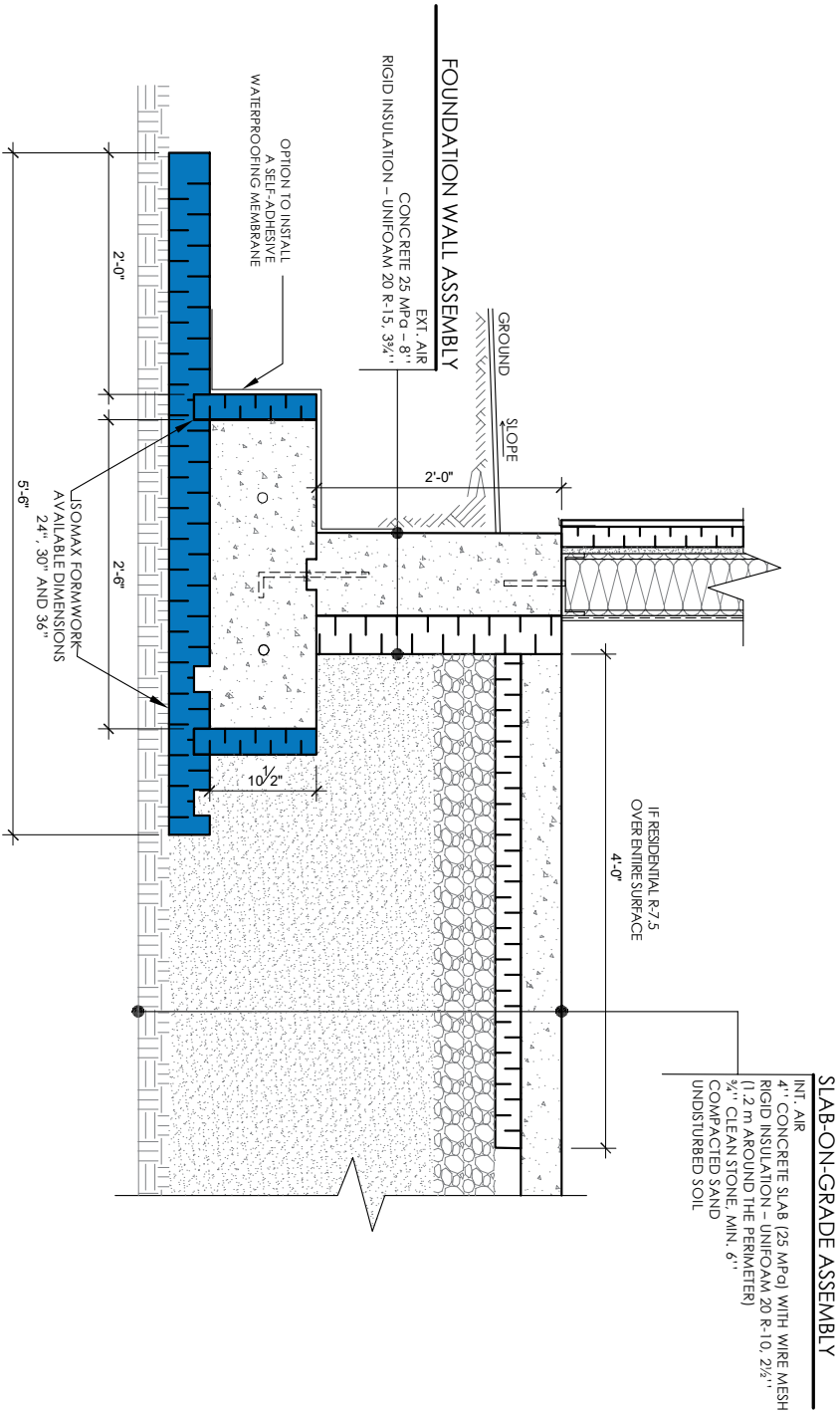




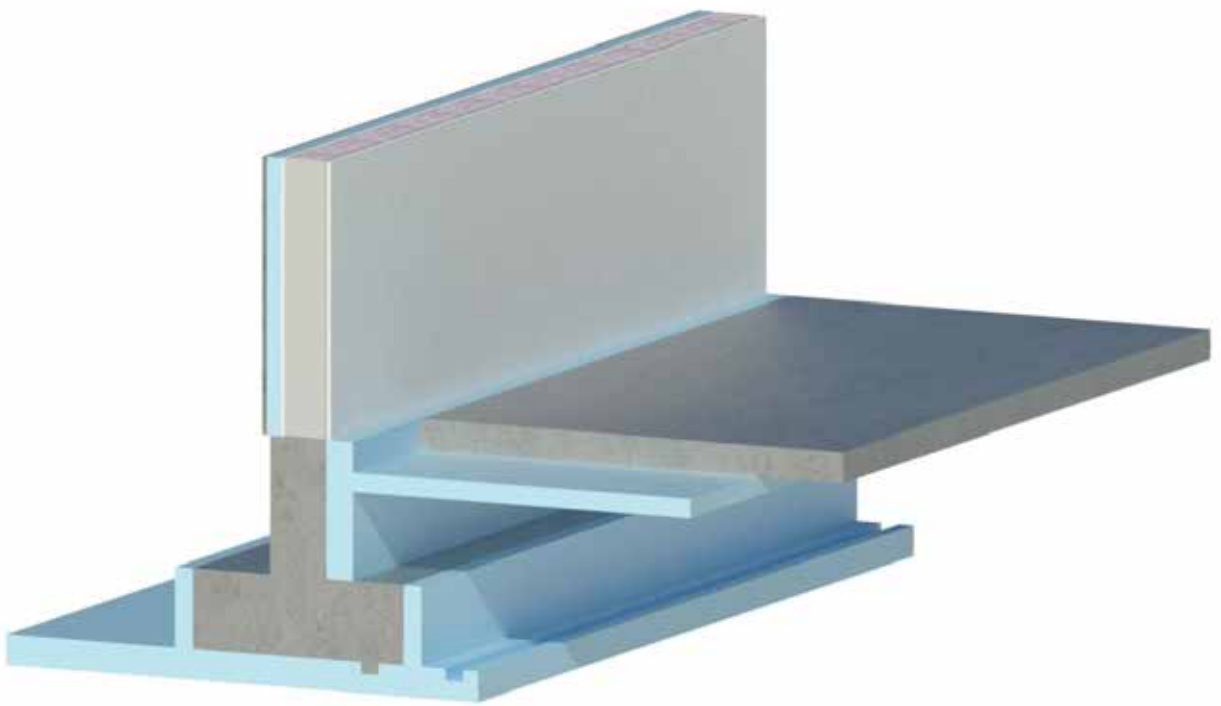


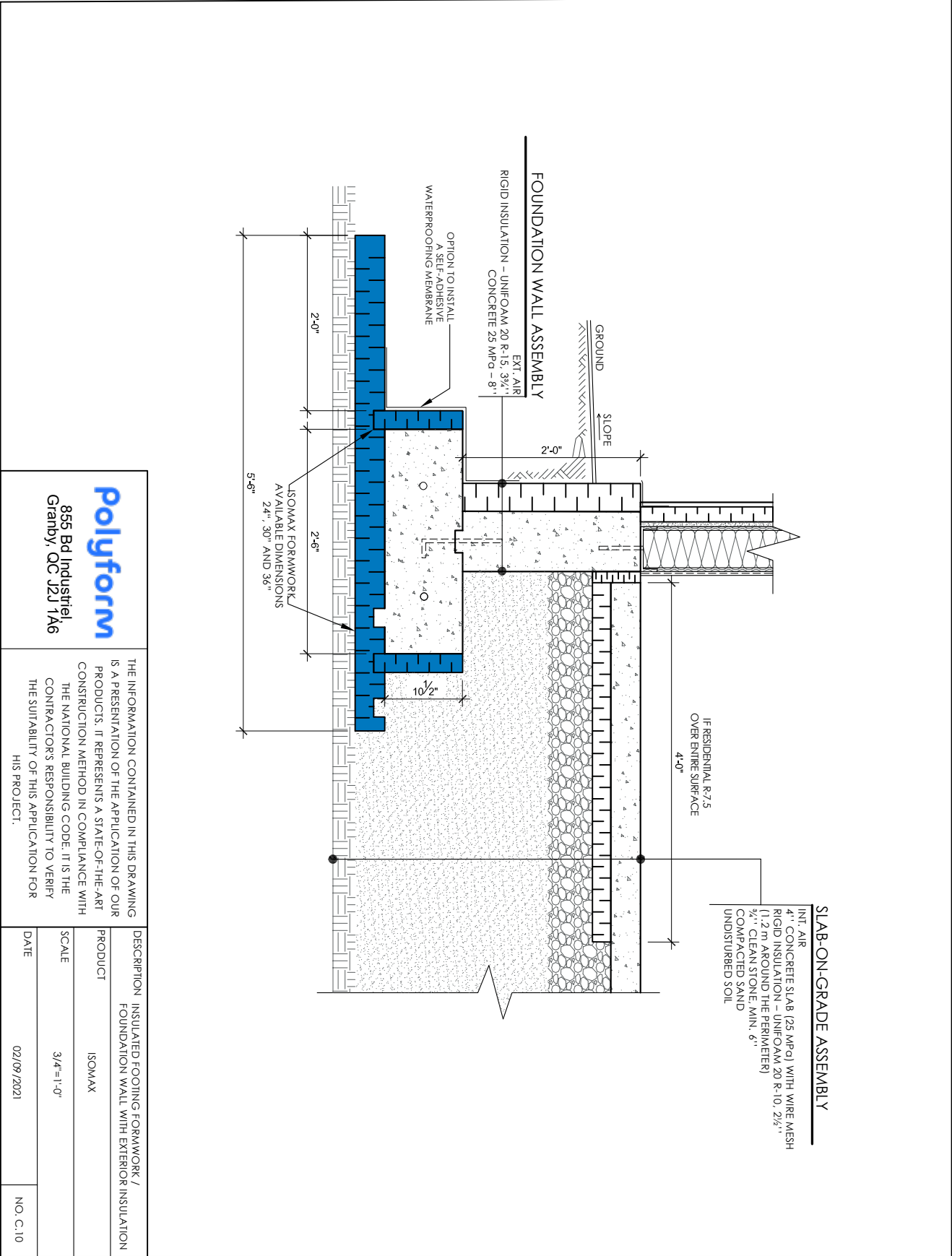
polyform 855 Bd Industriel, Granby, QC J2J 1A6		THE INFORMATION CONTAINED IN THIS DRAWING IS A PRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.	
DESCRIPTION WALL SECTION - INSULATED FOOTING FORMWORK / INSULATED FORMWORK WALL		PRODUCT	ISOMAX
SCALE		3/4"=1'-0"	
DATE		03/06/2021	NO. 403



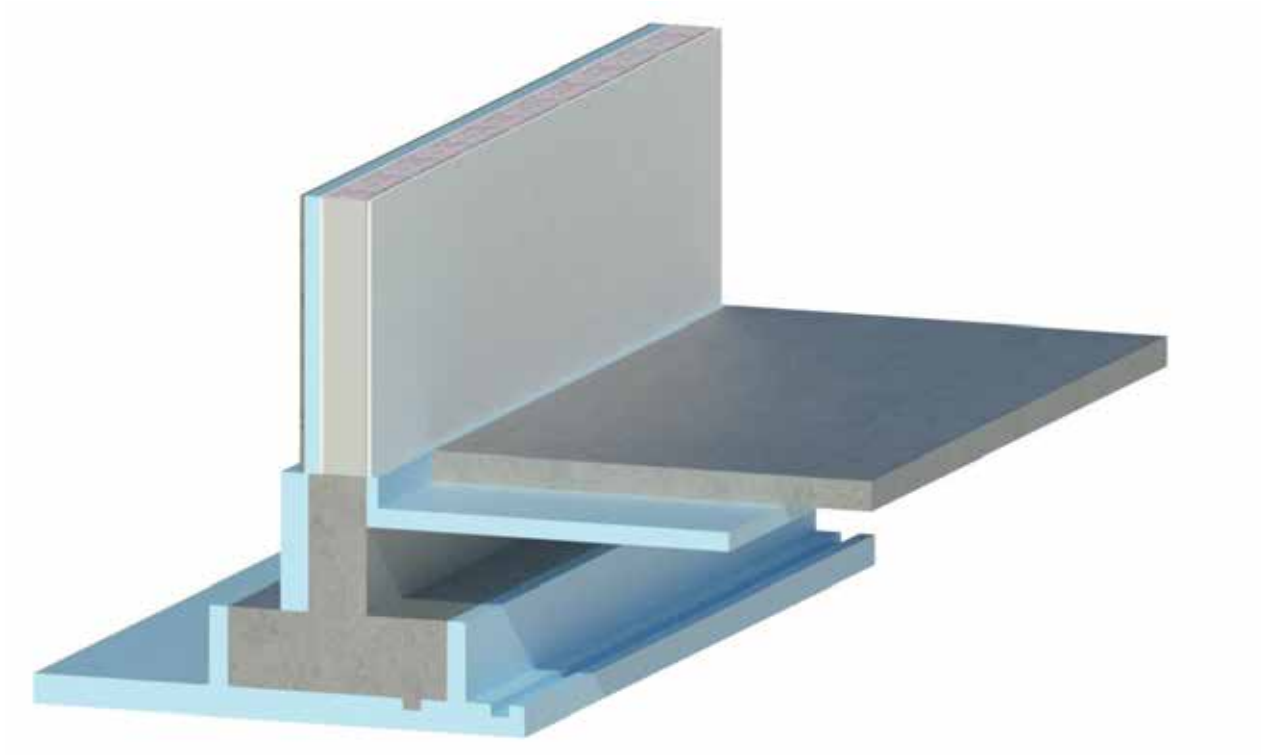


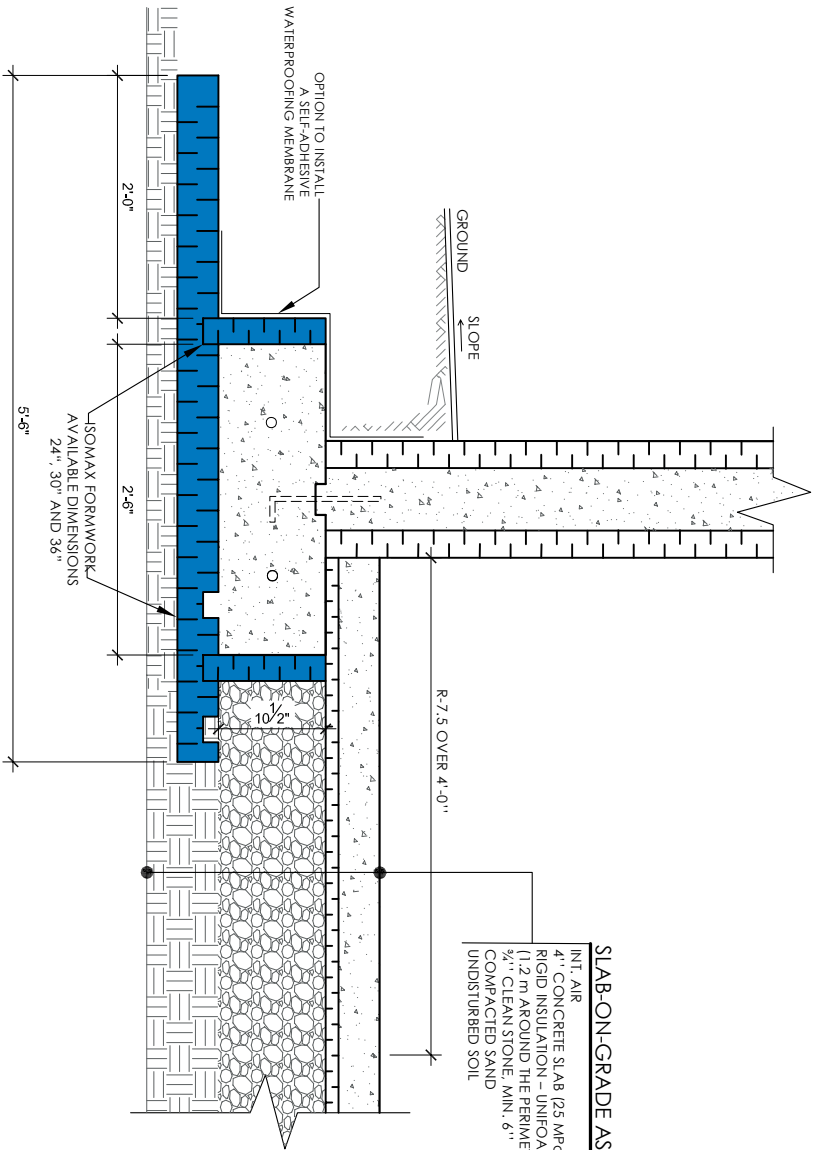
polyform 855 Bd Industriel Granby, QC J2J 1A6		THE INFORMATION CONTAINED IN THIS DRAWING IS A PRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.	
DESCRIPTION		INSULATED FOOTING FORMWORK / FOUNDATION WALL WITH INTERIOR INSULATION	
PRODUCT		ISOMAX	
SCALE		3/4"=1'-0"	
DATE		02/09/2021	NO. C.09



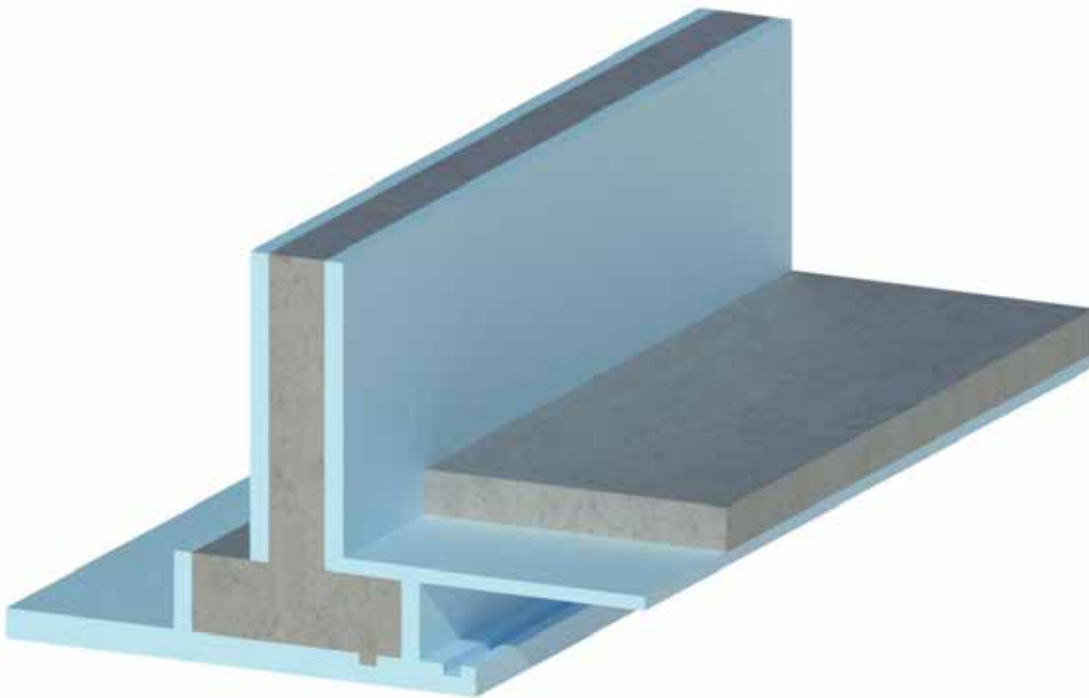


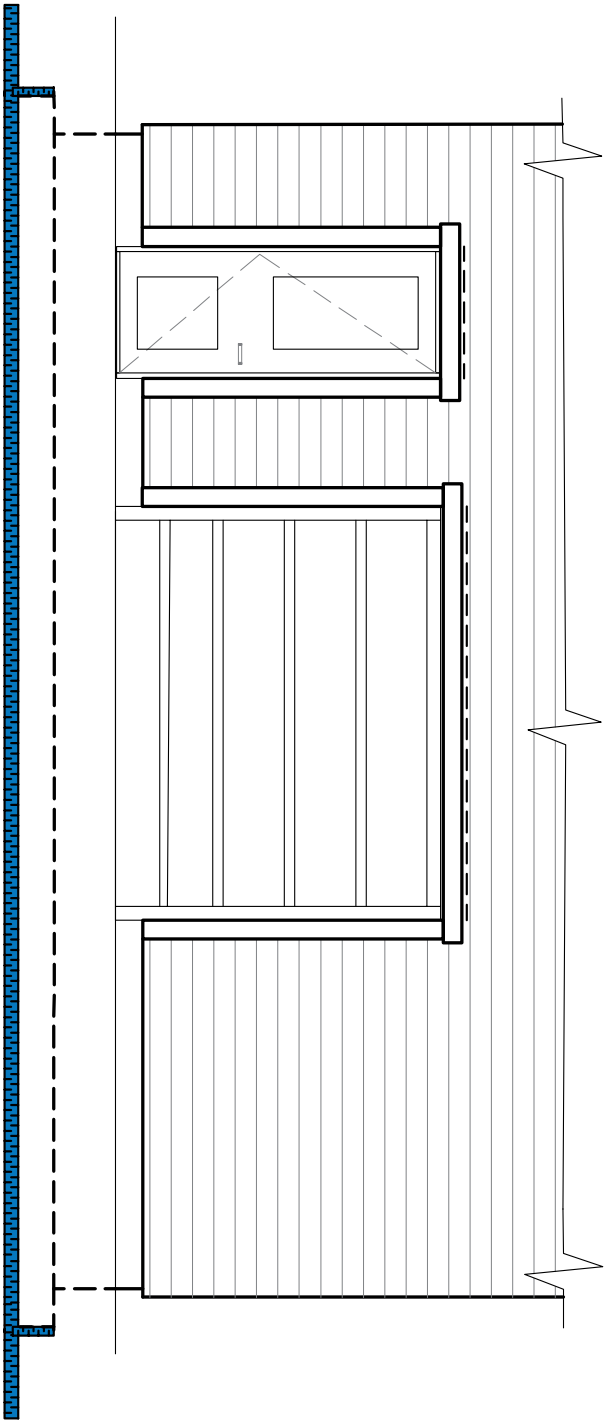
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DESCRIPTION INSULATED FOOTING FORMWORK / FOUNDATION WALL WITH EXTERIOR INSULATION		PRODUCT	ISOMAX
SCALE		3/4"=1'-0"	
DATE		02/09/2021	NO. C.10



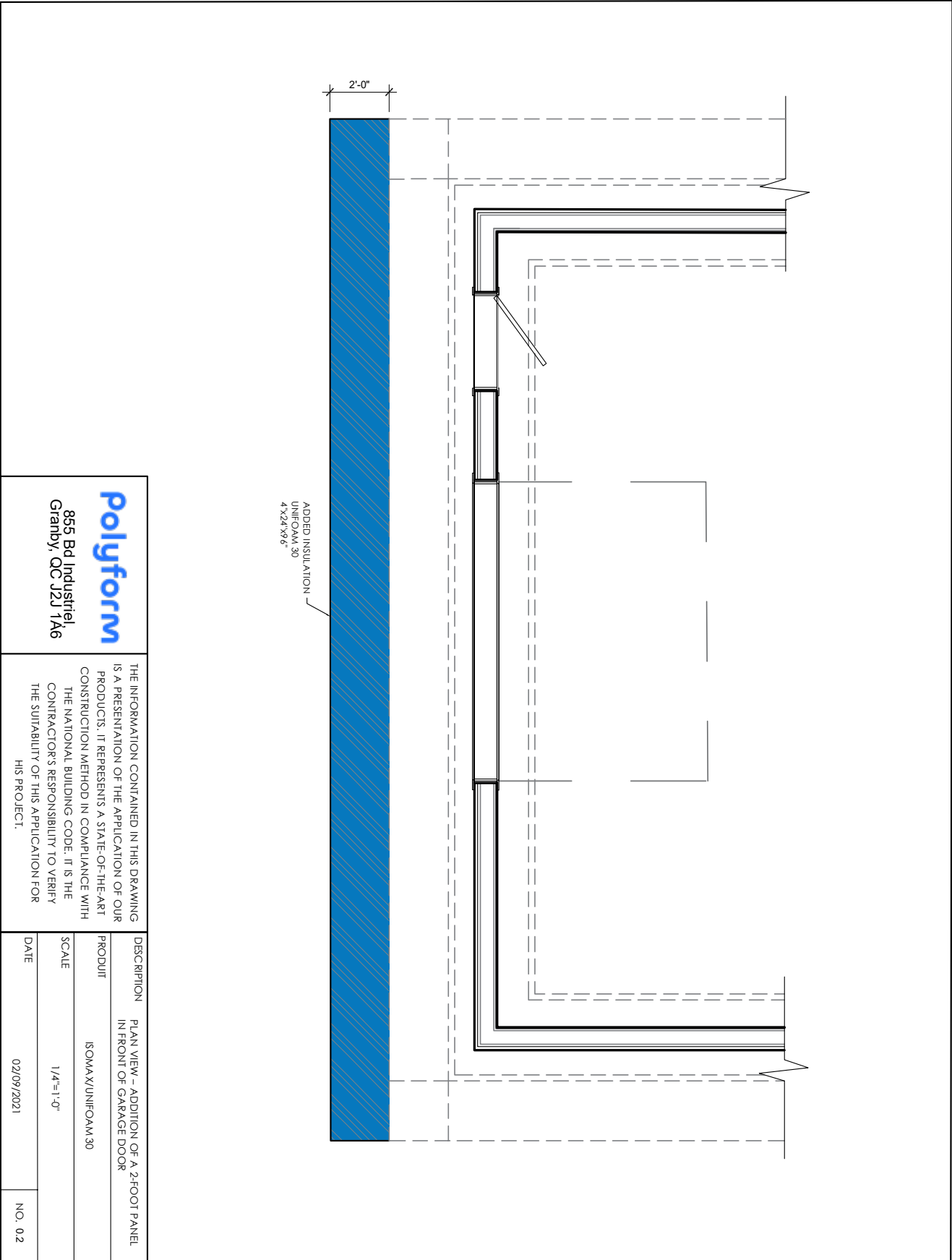


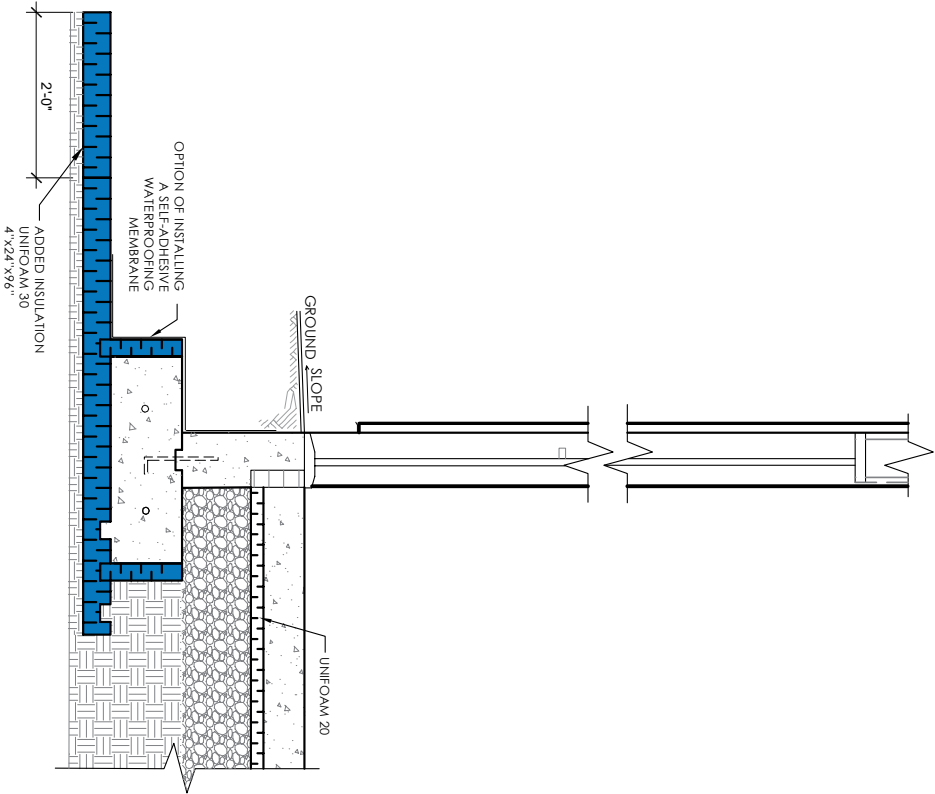
polyform 855 Bd Industriel, Granby, QC J2J 1A6		THE INFORMATION CONTAINED IN THIS DRAWING IS A PRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.	
DESCRIPTION		INSULATED FOOTING FORMWORK / INSULATED FORMWORK WALL	
PRODUCT		ISOMAX	
SCALE		3/4"=1'-0"	
DATE		02/09/2021	NO. C.11



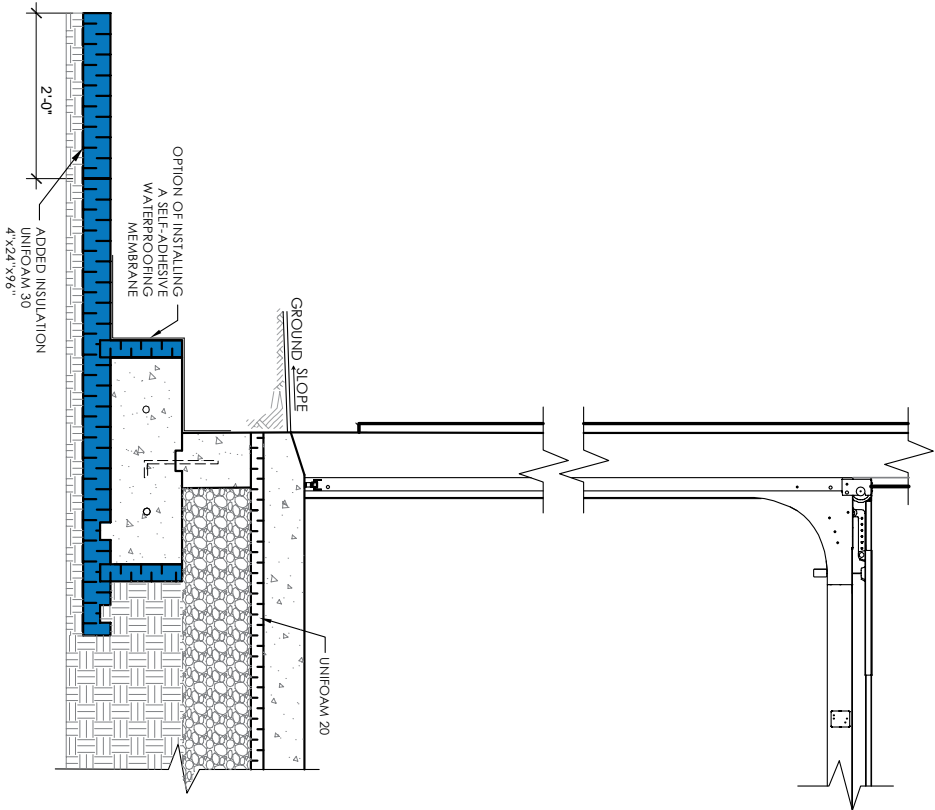


polyform 855 Bd Industriel, Granby, QC J2J 1A6		THE INFORMATION CONTAINED IN THIS DRAWING IS A PRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.	
DESCRIPTION	ELEVATION	PRODUCT	ISOMAX/UNIFOAM 30
SCALE	1/4"=1'-0"	DATE	2021/09/02
			NO. 0.1





EXTERIOR DOOR WALL SECTION



GARAGE DOOR WALL SECTION

855 Bd Industriel, Granby, QC J2J 1A6		Polyform	
THE INFORMATION CONTAINED IN THIS DRAWING IS A PRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.		DESCRIPTION EXTERIOR DOOR AND GARAGE DOOR WALL SECTION - INSULATION ADDITION DETAIL	
PRODUCT		ISOMAX/UNIFORM 30	
SCALE		1/2"=1'-0"	
DATE		2021/09/02	
		NO. 0.3	

ISOMAX®

integral

Complete Footing Insulation System

ISOMAX[®] *integral*

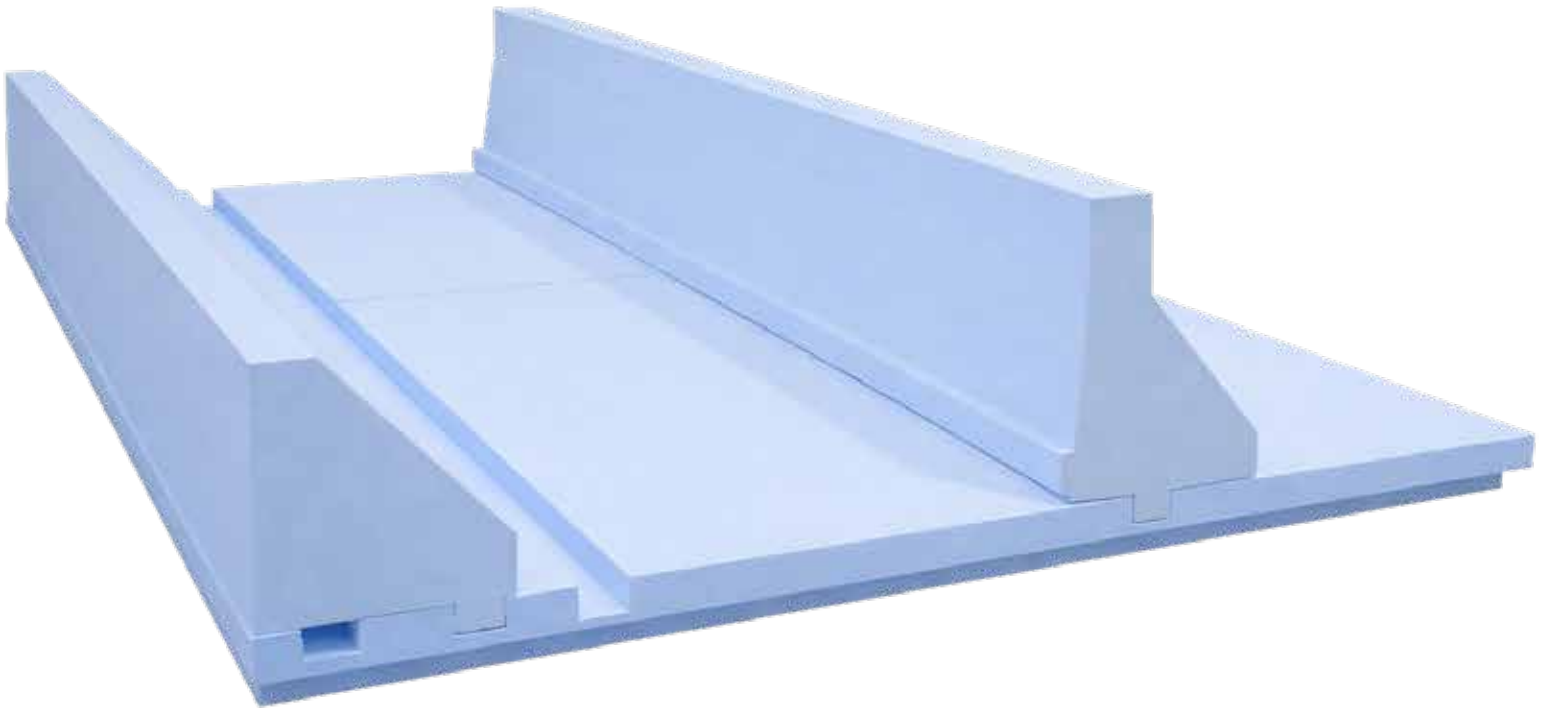
DESCRIPTION

Complete insulation system allowing the footing and slab to be poured simultaneously

- 4 in (102mm) thick moulded board with grooves to insert side panels
- Shiplapped at both ends
- 1 ft x 8 ft (305mm x 2438mm) side panels
- Universal inside and outside corner panels



Made in Canada



ISOMAX[®] integral

PRODUCT FEATURES

APPLICATIONS

Residential and commercial construction

Insulation for footings

ADVANTAGES

Superior Performance

Two construction steps in one: Allows pouring concrete for the slab and the footing at the same time

Two installation steps in one: Serves both as the formwork and insulation for the footing

Lightweight and easy to handle

Minimal excavation required and requires less concrete

Permanent insulation value

100% recyclable

Can be handled without health hazards and is non-irritating to skin

TECHNICAL DATA SHEET

EPS Physical Properties	ASTM Test Method	Type 2 HD
Thermal resistance 1 in (25mm) hr·°F·pi ² /BTU (m ² ·°C/W)	C-518	Min : 4,15 Min : (0,73)
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/in ² (kPa)	C-203	Min : 38 Min : (262)
Water absorption (%)	D-2842	Max : 2,0
Compressive properties lb/in ² (kPa)	D-1621	Min : 19 Min : (131)
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

4 in (102mm) thick with the following widths :

24 in (610mm), R-16

30 in (762mm), R-16

36 in (914mm), R-16

Some municipalities require soil testing and engineer approvals.

ISO 9001:2015

Certified quality management system ISO 9001:2015.



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

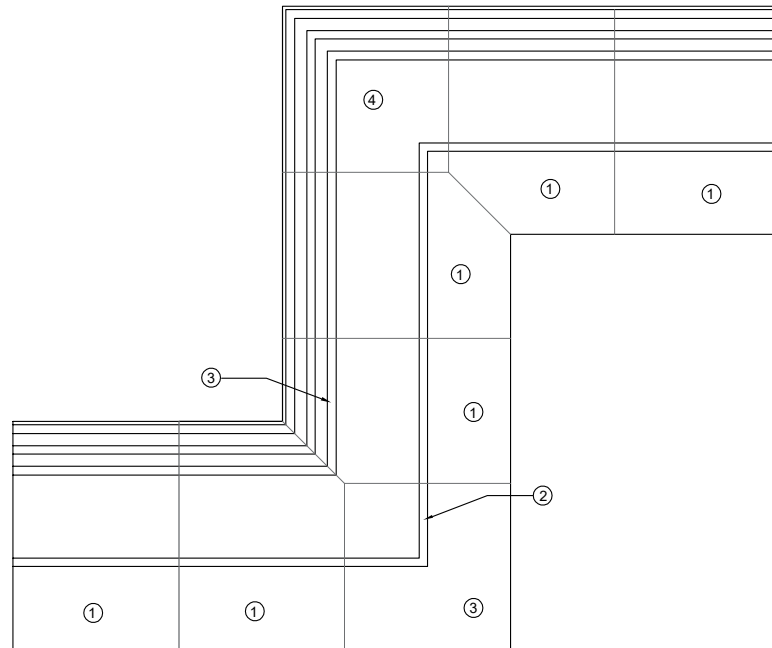
Warning

Flammable: interior applications require a protective barrier.

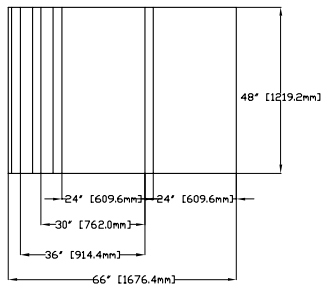
All installations must comply with the National Building Code. The information and suggestions contained in this brochure are provided solely for informational purposes and are offered in a spirit of collaboration. To our knowledge, we believe the information presented can be considered reliable. This 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.

ISOMAX[®] integral

LIST OF COMPONENTS FOR ISOMAX[®] FORM SYSTEM

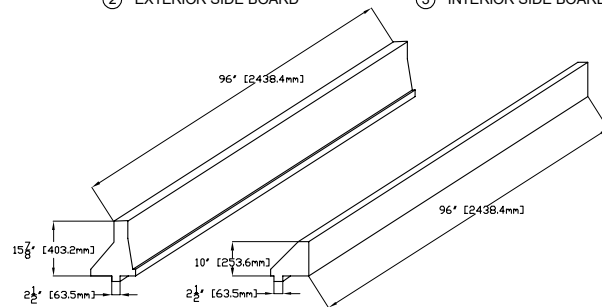


① STRAIGHT BOARD

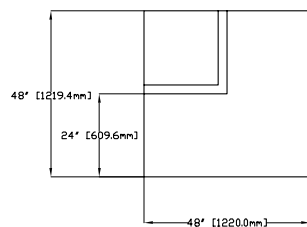


② EXTERIOR SIDE BOARD

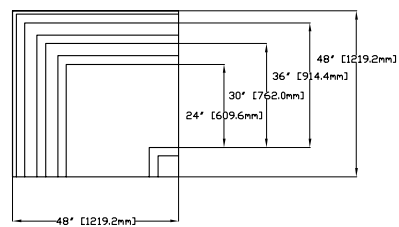
③ INTERIOR SIDE BOARD



④ EXTERIOR CORNER BOARD

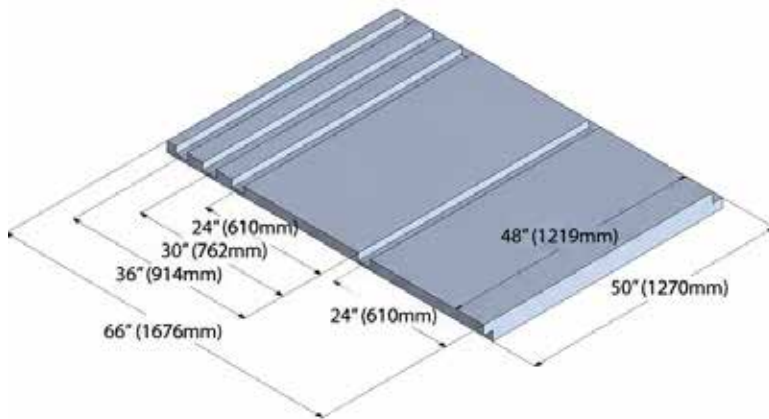


⑤ EXTERIOR CORNER BOARD



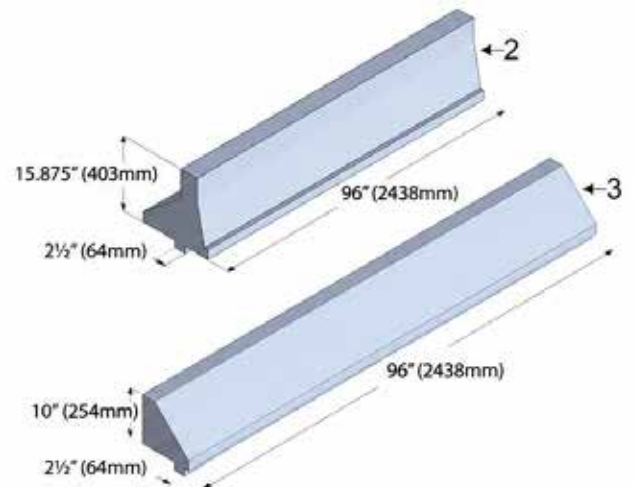
ISOMAX[®] *integral*

1 - STRAIGHT BOARD

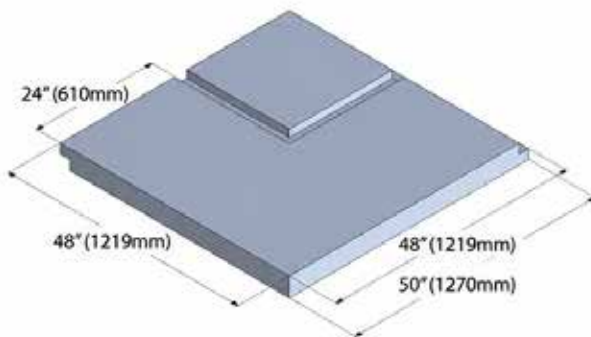


2 - EXTERIOR SIDE BOARD

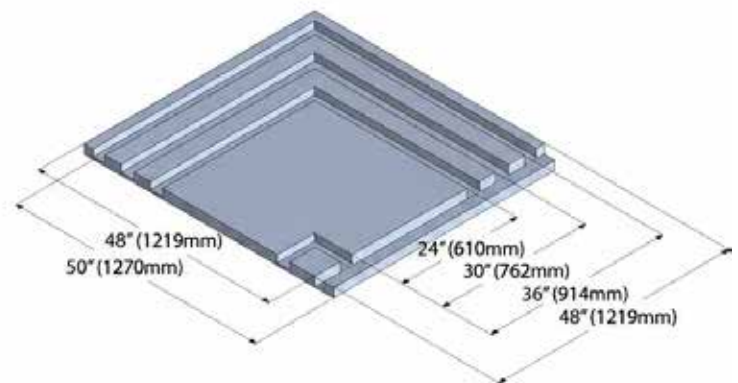
3 - INTERIOR SIDE BOARD



4 - EXTERIOR CORNER BOARD

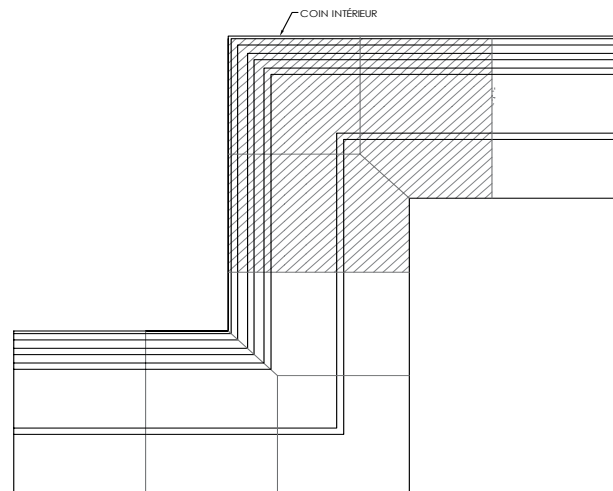


5 - INTERIOR CORNER BOARD

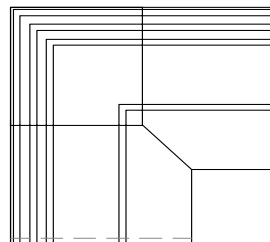
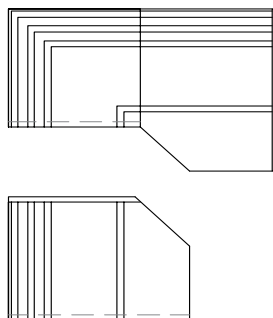
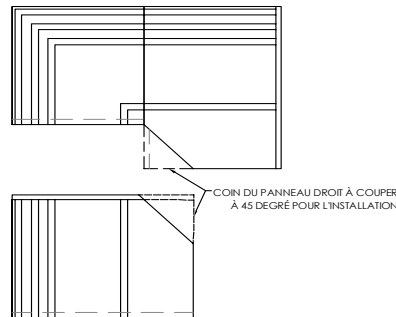
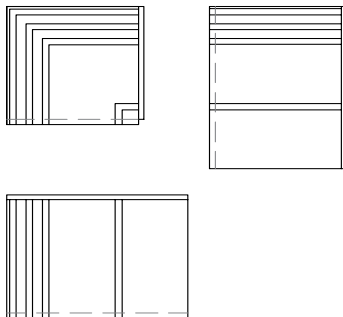


ISOMAX[®] integral

INSTALLATION TIPS Universal inside corner

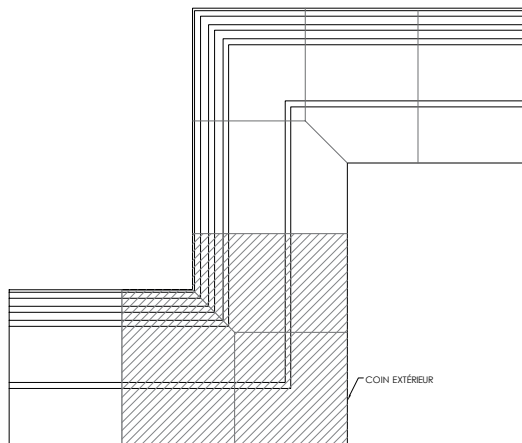


1. Place the panel in the corner.
2. Place one of the panels right, make a cut à 45°.
3. Repeat step 2 with a second panel.
4. Final assembly.

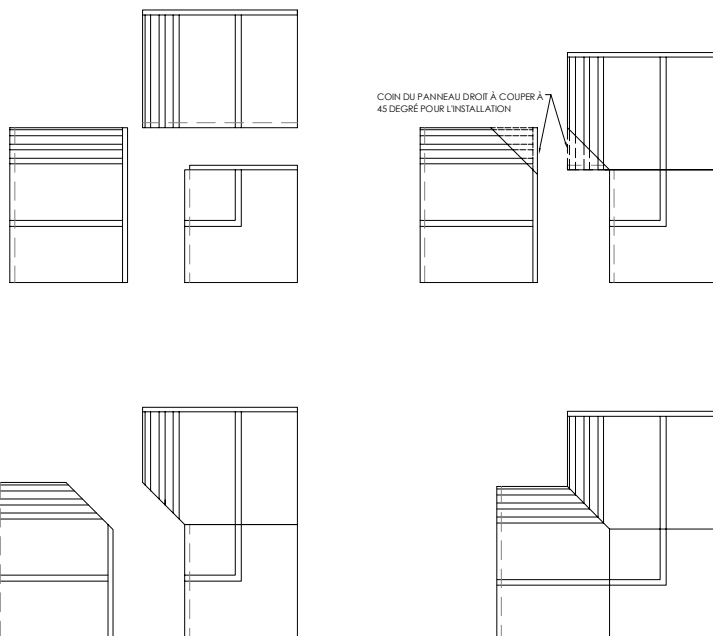


ISOMAX[®] integral

INSTALLATION TIPS Universal outside corner



1. Place the panel in the corner.
2. Place one of the panels right, make a cut à 45°.
3. Repeat step 2 with a second panel.
4. Final assembly.



ISOMAX[®] integral

INSTALLATION TIPS



1. Place universal corners first.



2. Place straight boards.



3. Place side boards.



4. Put the rebar reinforcement inside the footing.

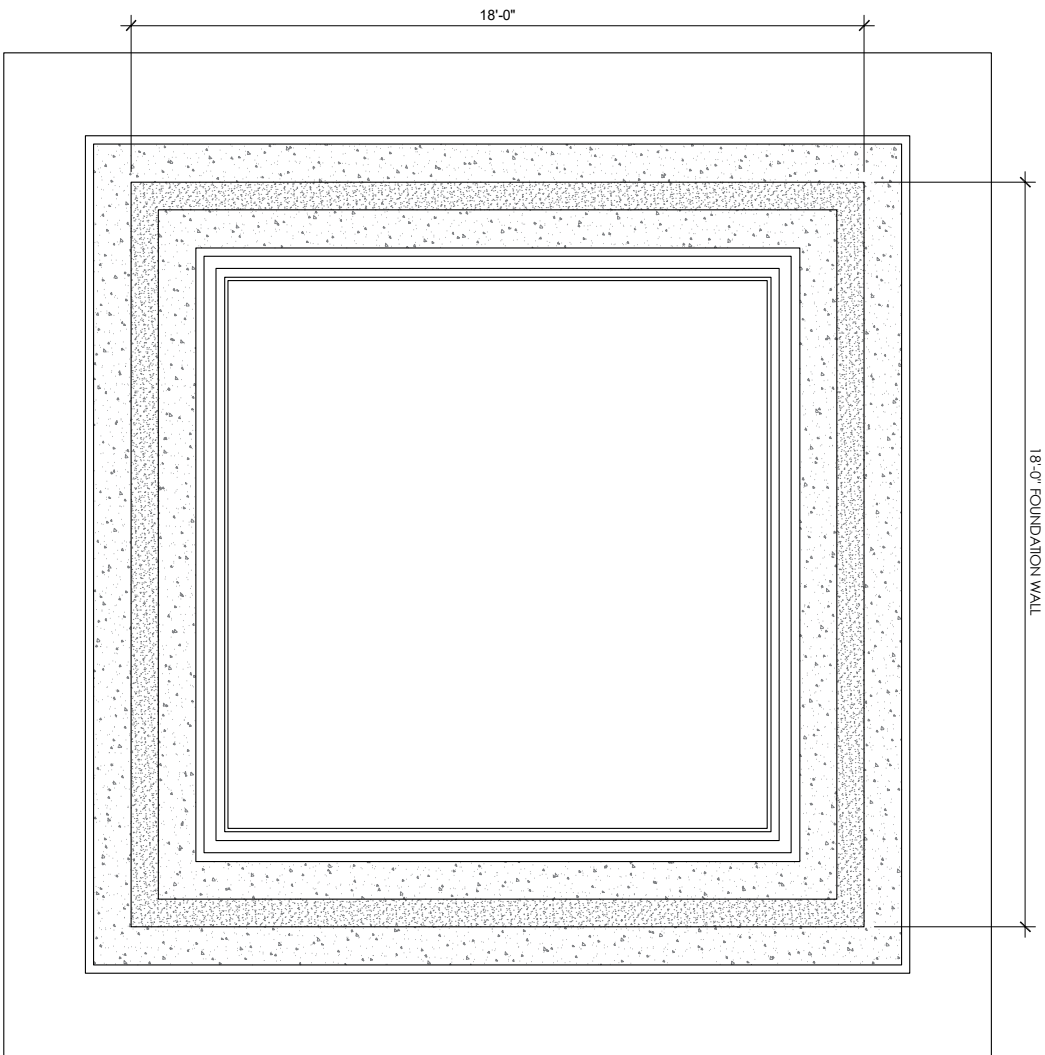


5. Strengthen the top of the formwork temporarily and pour in concrete

Note: Some municipalities require soil testing and engineering approvals.

ISOMAX[®] integral





CALCULATION METHOD TO DETERMINE
THE REQUIRED NUMBER OF ISOMAX PANELS:

ADD UP THE LINEAR FEET OF THE FOUNDATION
WALLS. THEN, DIVIDE THE TOTAL BY 4 FEET TO
DETERMINE THE NUMBER OF STRAIGHT PANELS.
NEXT, ADD THE NUMBER OF INTERIOR AND
EXTERIOR CORNERS.

EXAMPLE: 18' X 4' = 72 LINEAR FEET
72' / 4' = **18** STRAIGHT PANELS AND
4 EXTERIOR CORNERS

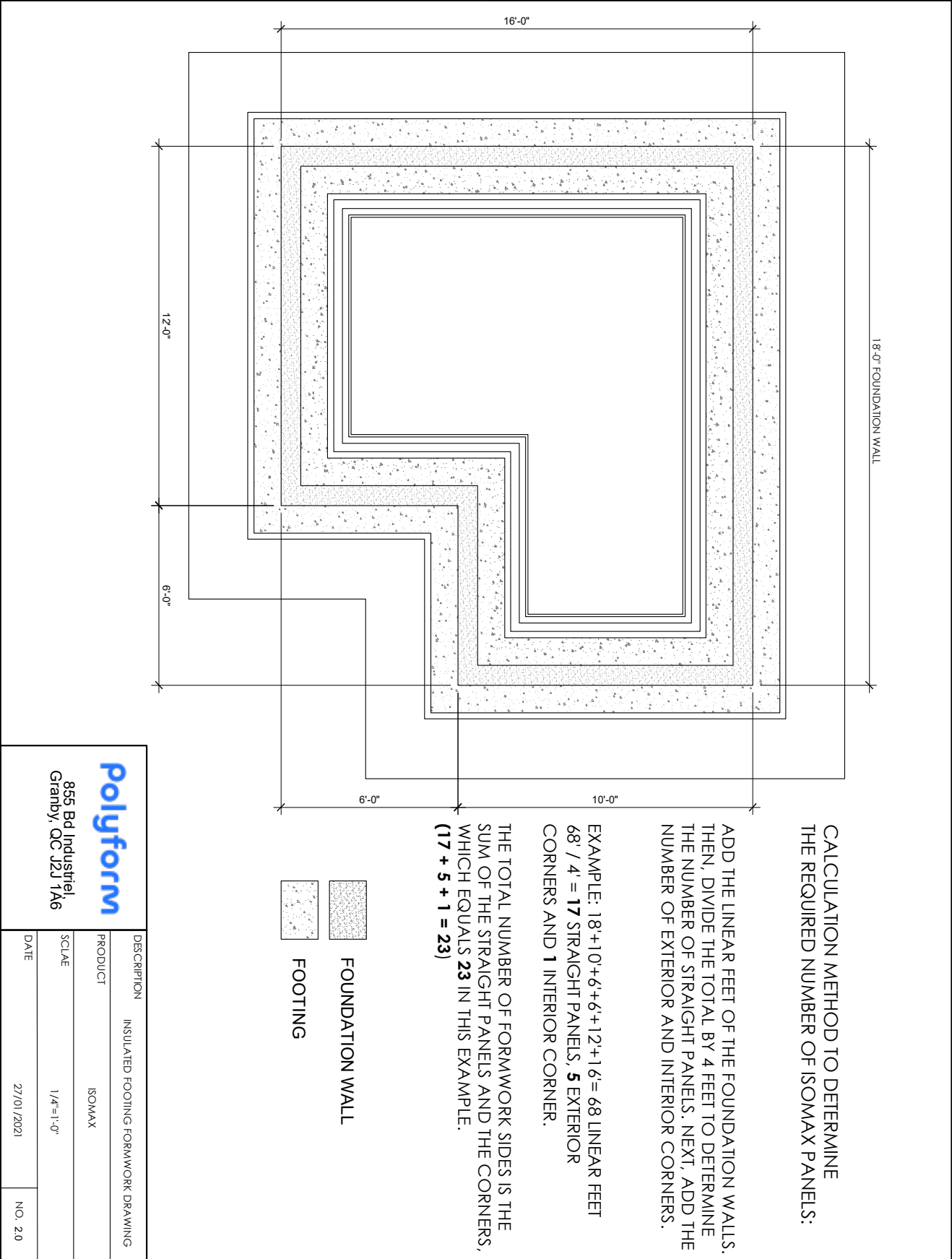
THE TOTAL NUMBER OF FORMWORK SIDES IS
THE SUM OF STRAIGHT PANELS AND CORNERS,
WHICH EQUALS **22** IN THIS EXAMPLE. (**18 + 4 = 22**)

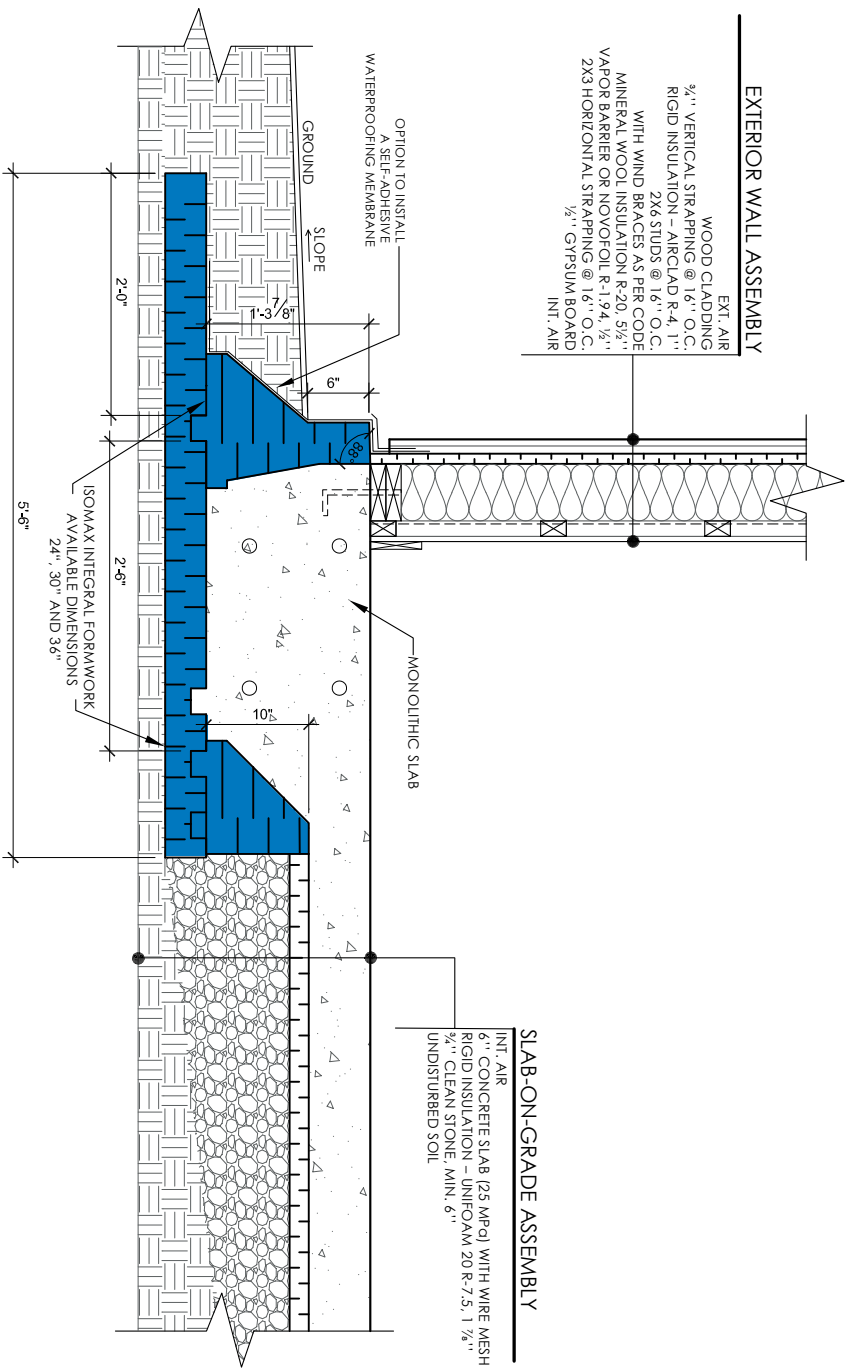


DESCRIPTION	CALCULATION METHOD
PRODUIT	ISOMAX
ÉCHELLE	1/4"=1'-0"
DATE	16/06/2021
	NO. 1.0

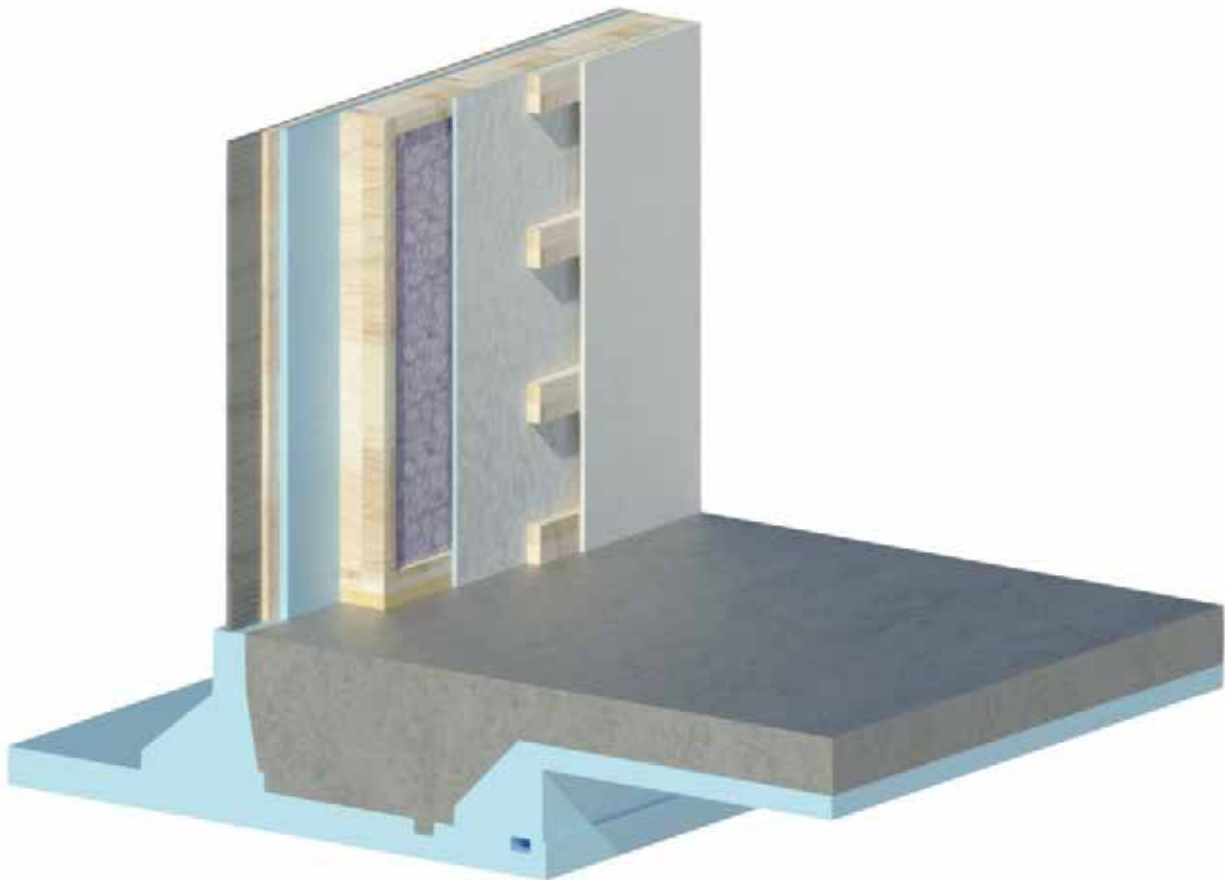
855 Bd Industriel,
Granby, QC J2J 1A6

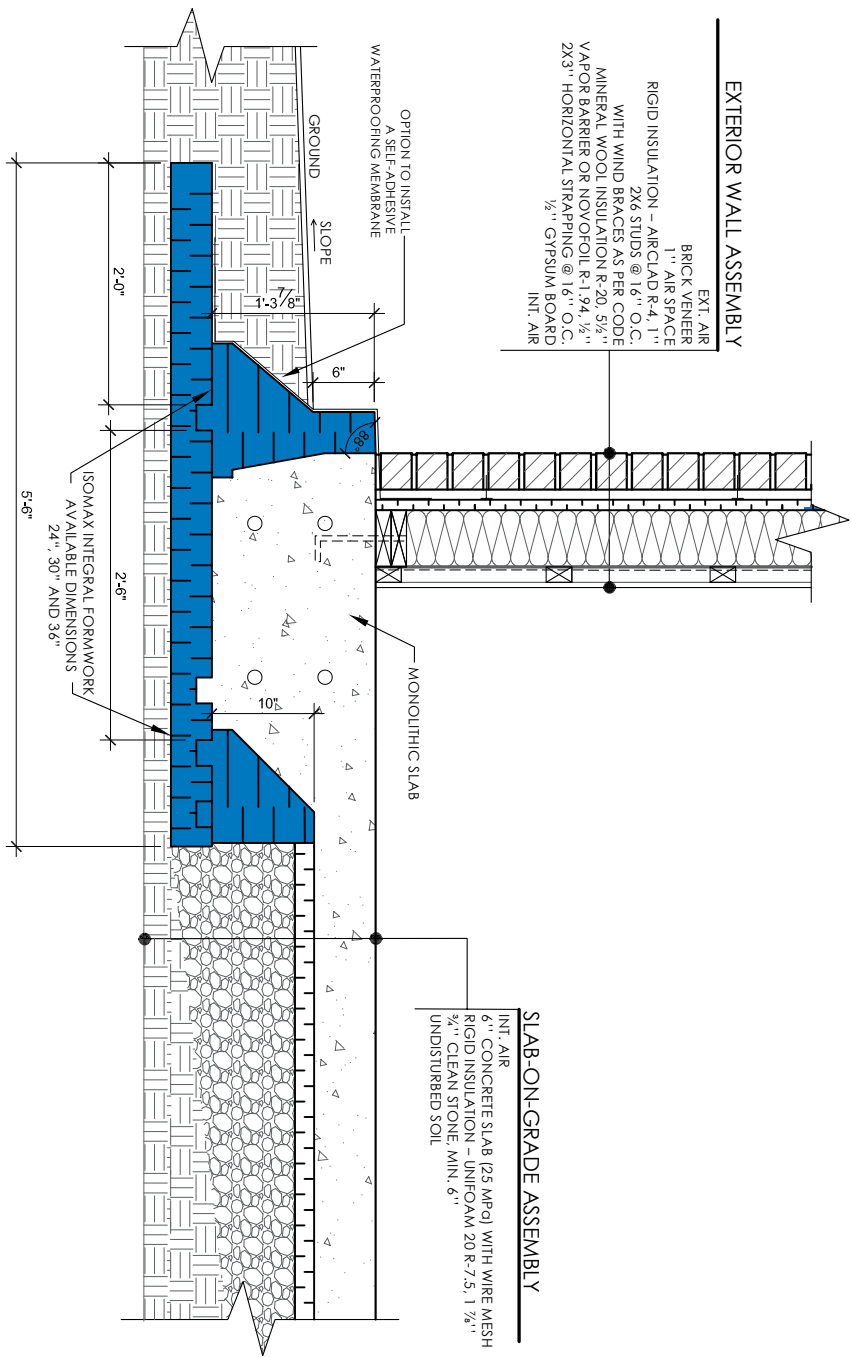
polyform



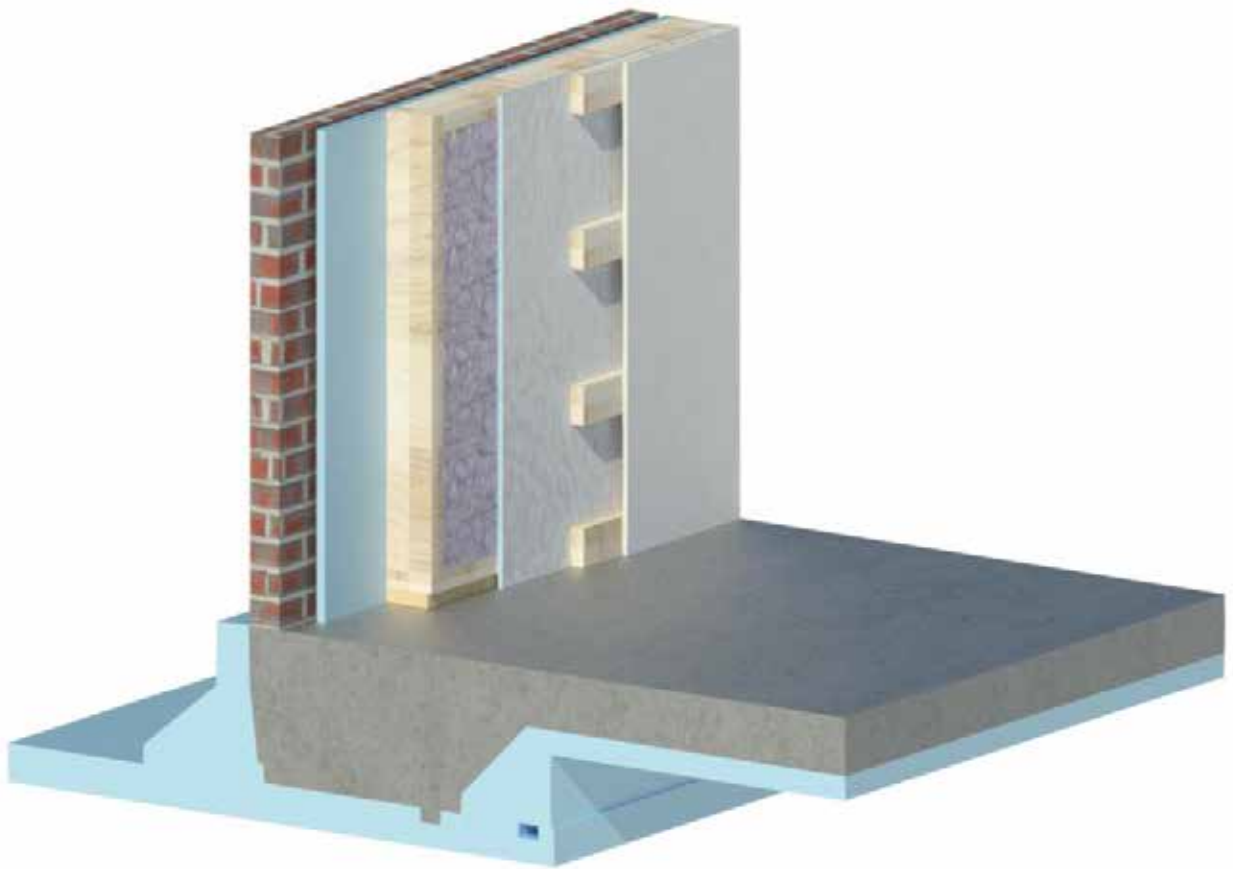


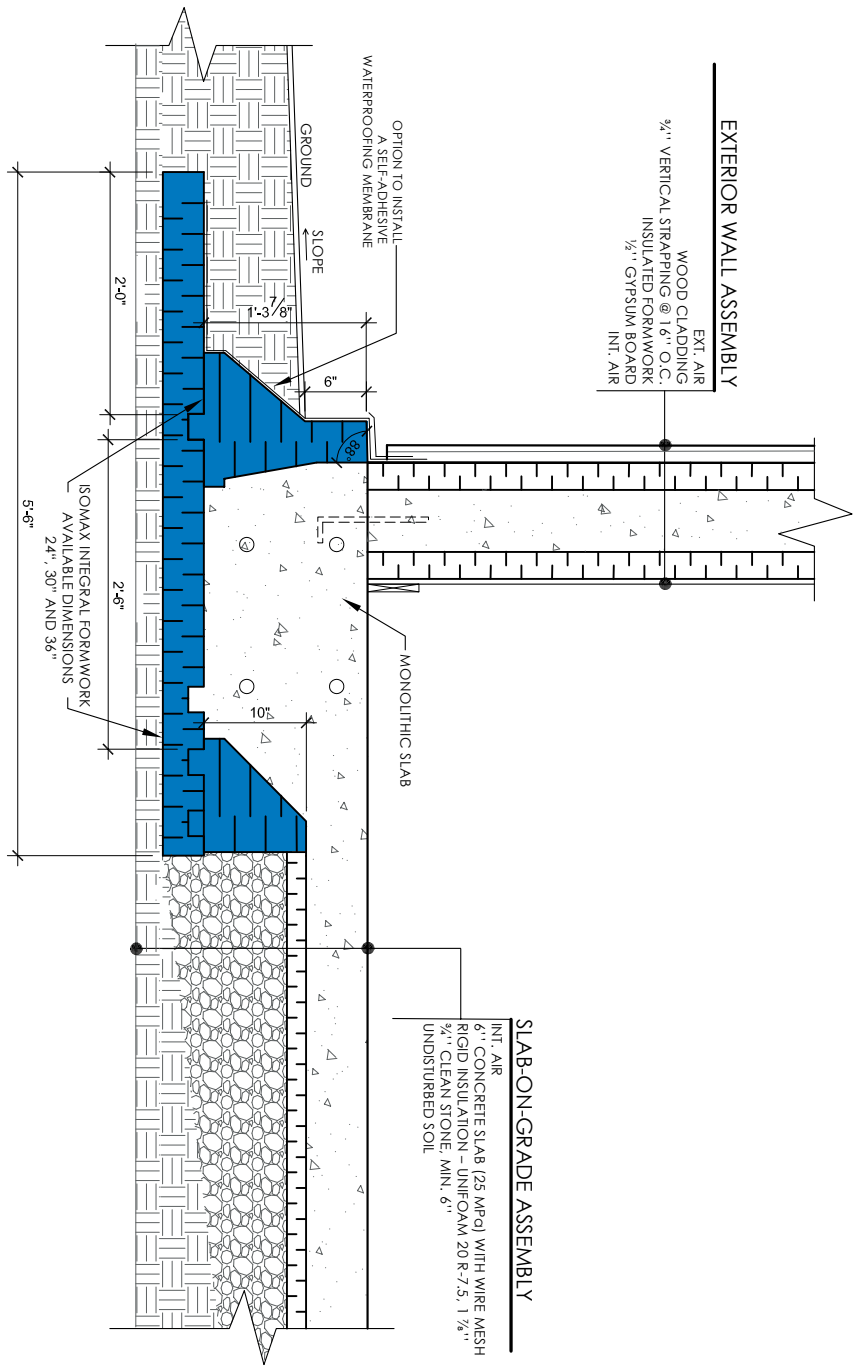
Polyform 855 Bd Industriel, Granby, QC J2J 1A6		THE INFORMATION CONTAINED IN THIS DRAWING IS A PRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.	
DESCRIPTION	WALL SECTION - INSULATED FORMWORK MONOLITHIC SLAB / WOOD WALL WITH WOOD SIDING FINISH		
PRODUCT	ISOMAX INTEGRAL		
SCALE	3/4"=1'-0"		
DATE	02/09/2021	NO. 501	





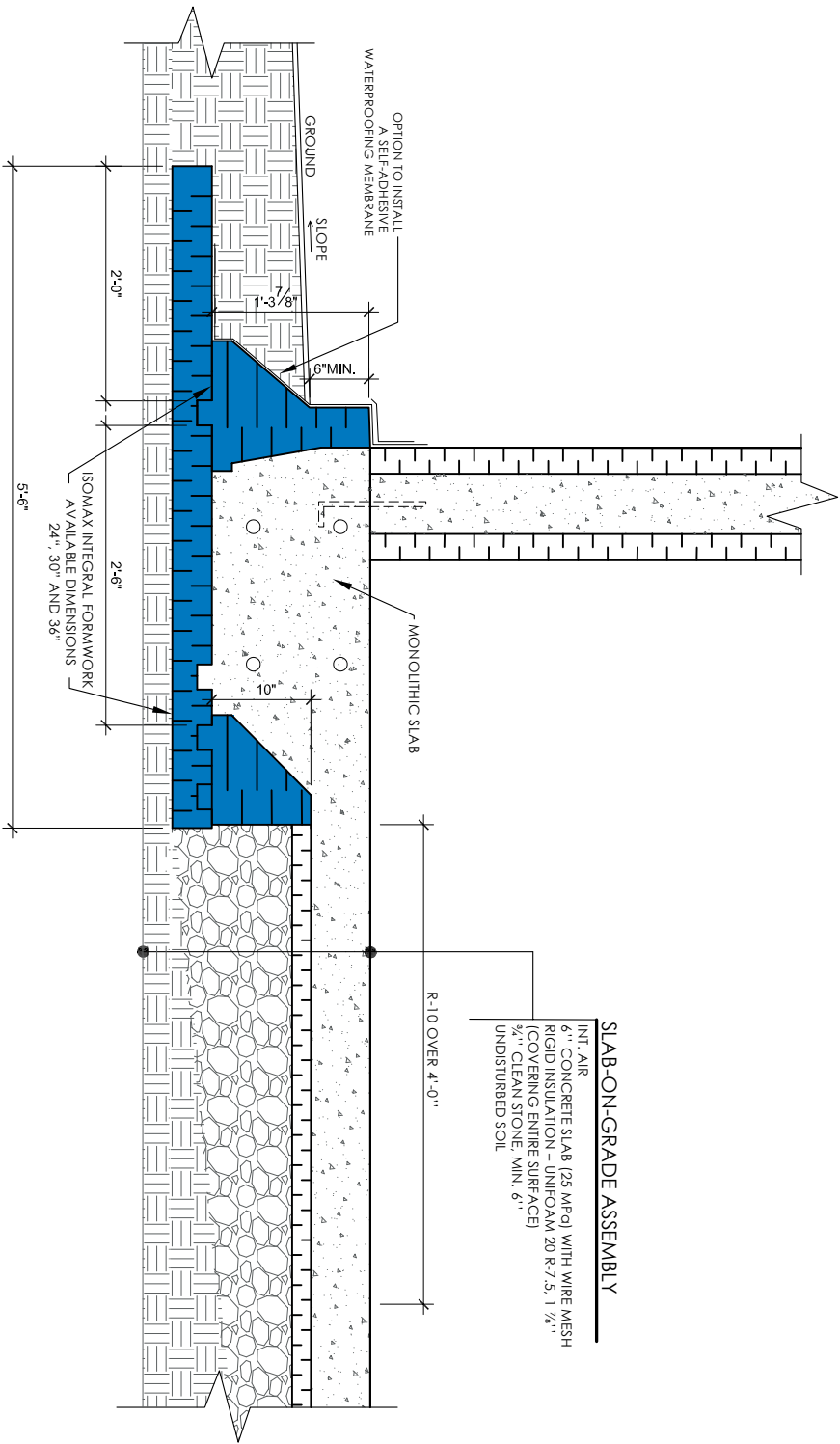
Polyform 855 Bd Industriel, Granby, QC J2J 1A6		THE INFORMATION CONTAINED IN THIS DRAWING IS A REPRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.	
DESCRIPTION	WALL SECTION - INSULATED FORMWORK MONOLITHIC SLAB / WOOD WALL WITH BRICK FINISH	DATE	02/09/2021
PRODUCT	ISOMAX INTEGRAL	NO.	502
SCALE	3/4"=1'-0"		



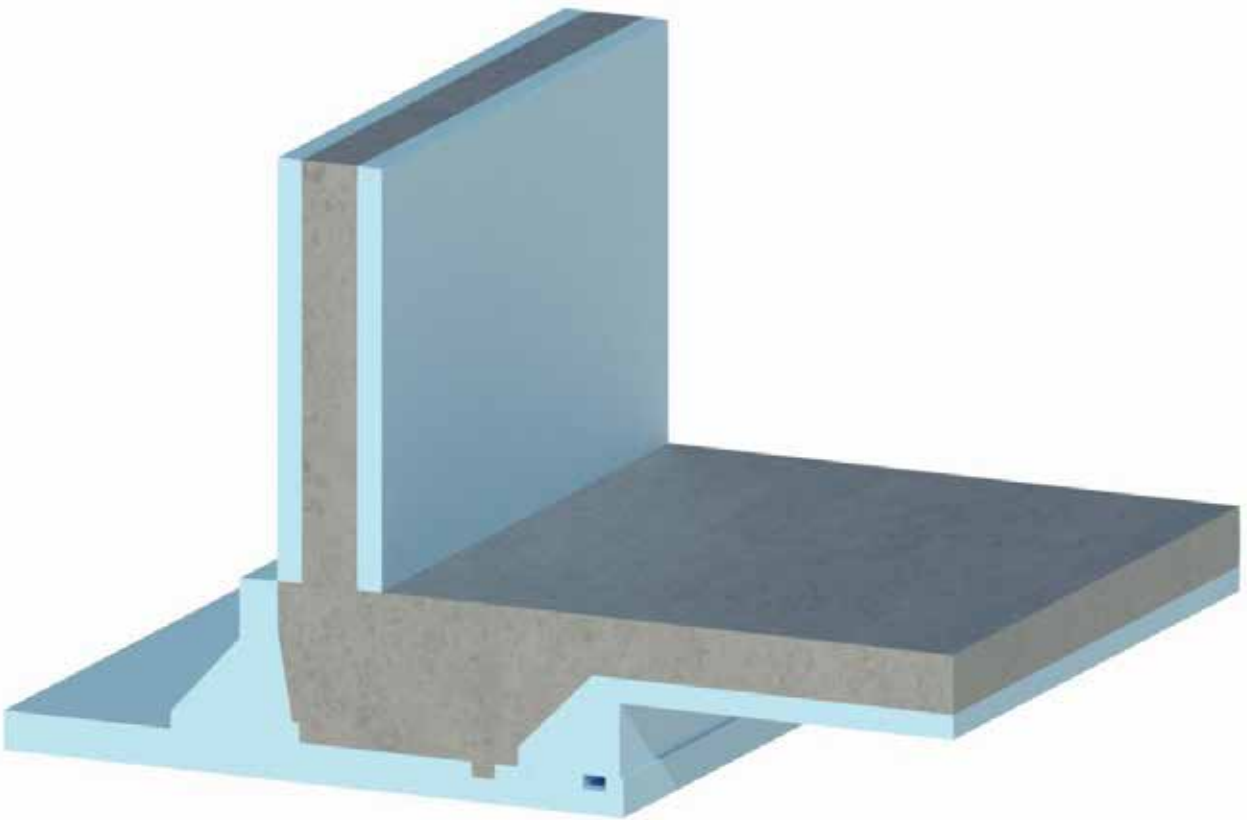


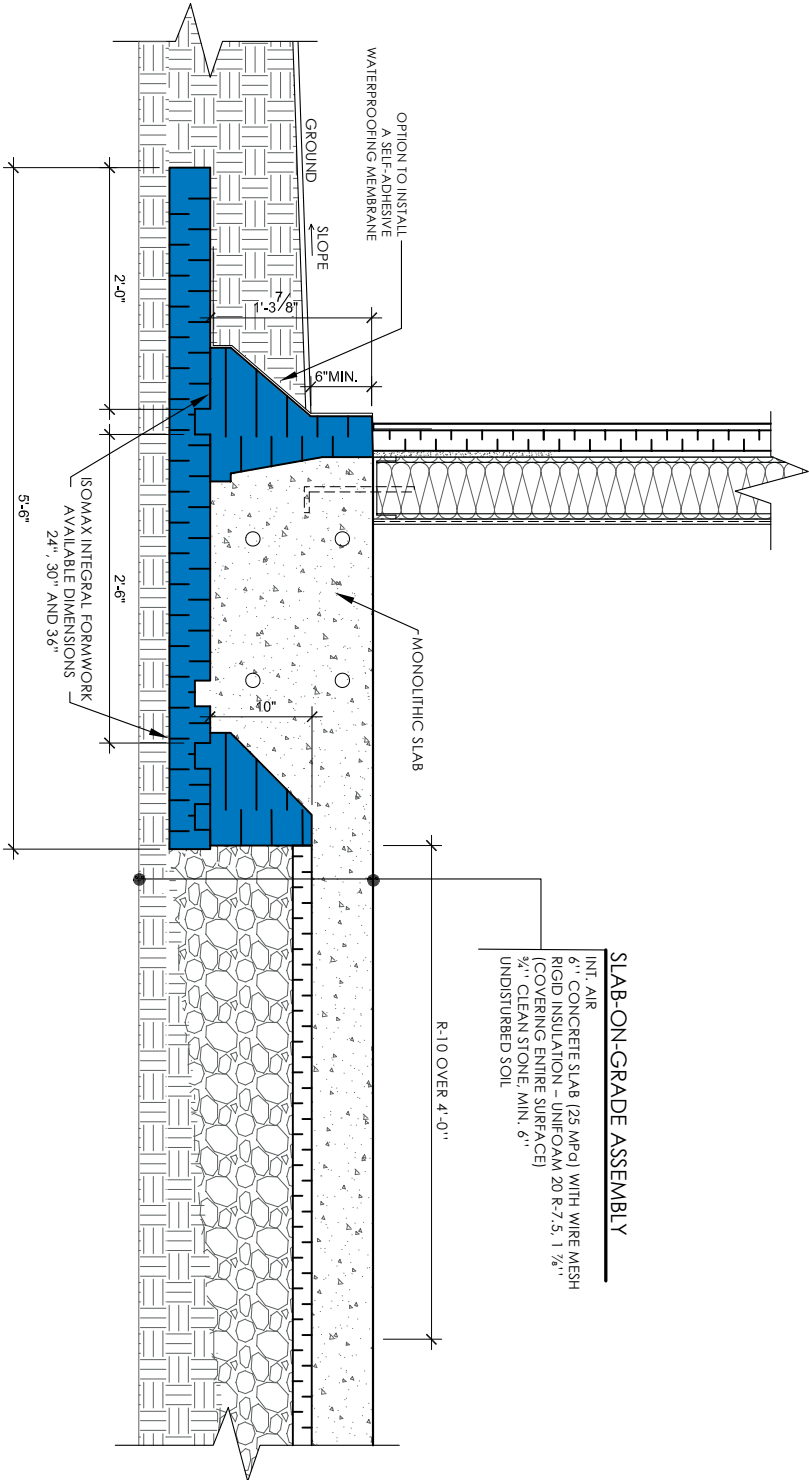
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DESCRIPTION		WALL SECTION - INSULATED FORMWORK MONOLITHIC SLAB / INSULATED FORMWORK WALL	
PRODUCT		ISOMAX INTEGRAL	
SCALE		3/4" = 1'-0"	
DATE		02/09/2021	
		NO. 503	



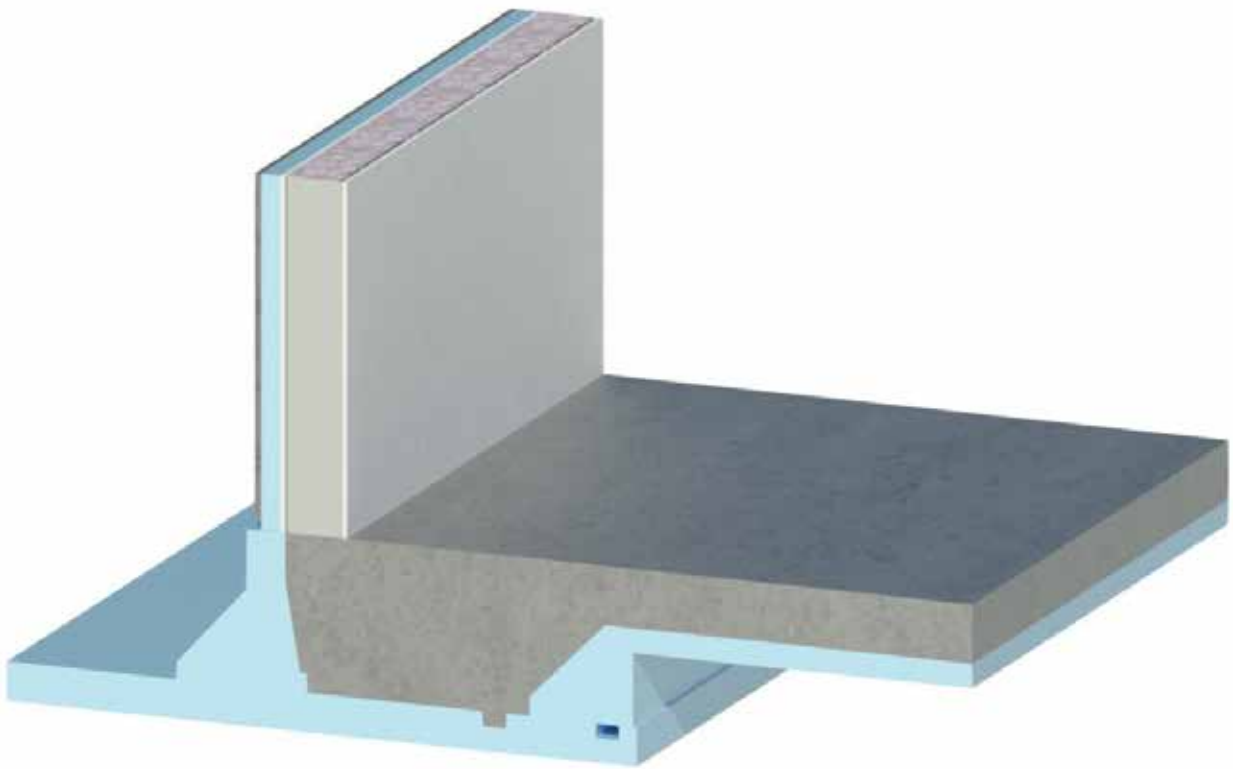


polyform 855 Bd Industriel, Granby, QC J2J 1A6		THE INFORMATION CONTAINED IN THIS DRAWING IS A REPRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.	
DESCRIPTION		INSULATED FORMWORK - MONOLITHIC SLAB / INSULATED FORMWORK WALL	
PRODUCT		ISOMAX INTEGRAL	
SCALE		3/4"=1'-0"	
DATE		02/09/2021	
		NO. C.12	





polyform 855 Bd Industriel, Granby, QC J2J 1A6		THE INFORMATION CONTAINED IN THIS DRAWING IS A PRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.	
DESCRIPTION - INSULATED FORMWORK - MONOLITHIC SLAB / STEEL WALL		PRODUCT	ISOMAX INTEGRAL
SCALE		3/4" = 1'-0"	
DATE		02/09/2021	NO. C.13



ekösteps®
sous-couche isolante

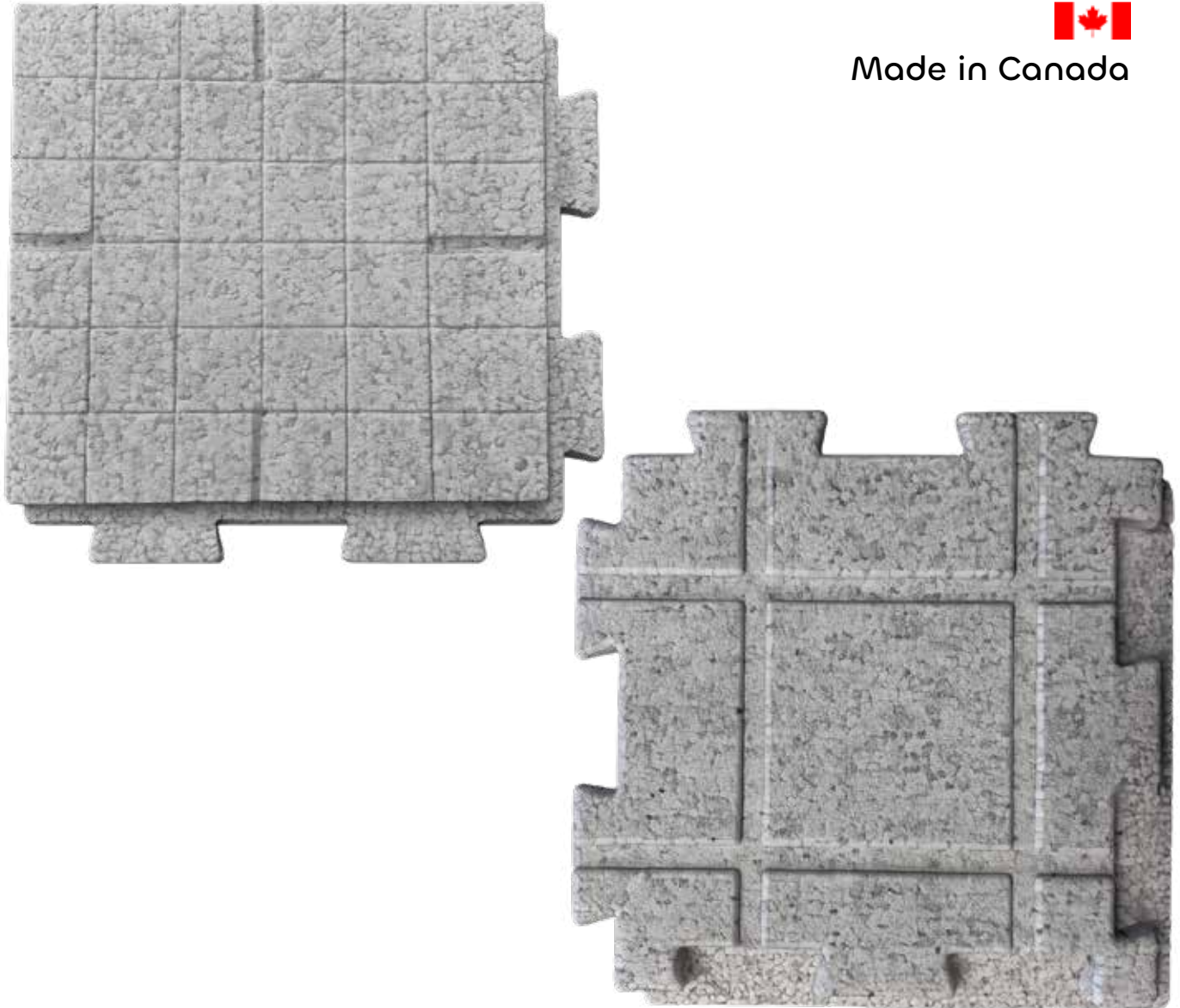
High-Density EPS tile

ekōsteps®

DESCRIPTION

High-density expanded polystyrene tile specially designed to avoid losing ambient heat

- 2 ft x 2 ft x 3/4 in (610mm x 610mm x 19mm)
- Tongue and groove assembly (no glue or tools required)
- Cutting guide every inch, with a graduated surface for any easy installation
- Groves under the tile for water drainage or better grout setting



Made in Canada



PRODUCT FEATURES

APPLICATIONS

Residential, commercial and industrial construction

Insulation and sound proofing on the concrete slab and under ceramic or floating floor

ADVANTAGES

Superior Performance

Energy gains from 20% to 35%
Enhances floor comfort (up to 7°C warmer)
Decreases impact noises reverberation
Lightweight and easy to handle
Permanent insulating value
100% recyclable
Can be handled without health hazards and is non-irritating to skin



TECHNICAL DATA SHEET

EPS Physical Properties	ASTM Test Method	Results
Thermal resistance : hr·°F·ft ² /BTU m ² ·°C/W	C-518	4,39 / po (3,37 net) 0,40 / 25mm (0,30 net)
Insulation index of impact noises in situ	E-2235	FIIC - 60

AVAILABLE SIZES

2 ft x 2 ft x 3/4 in (610mm x 610mm x 19mm)

ISO 9001:2015

Certified quality management system ISO 9001:2015.

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.



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

INSTALLATION TIPS

- 1.a. FLOATING FLOORING : If required, install a vapour barrier membrane on the ground before covering the surface with the tiles.
- b. CERAMIC : The insulating Ekösteps® tiles need to be attached to the subfloor with cement glue.
2. Before starting the tile installation, ensure the surface is flat, inflexible, clean and dry. All carpet or sub-carpet must be removed. Any subfloor levelling difference of 3 mm (1/8 in) or more per 24 in width must be reduced.
3. You will need a measuring tape and a utility knife.
4. Refer to your flooring installation instructions (how to install over an insulating underlayment) to respect the manufacturer's requirements and not to compromise your warranty.

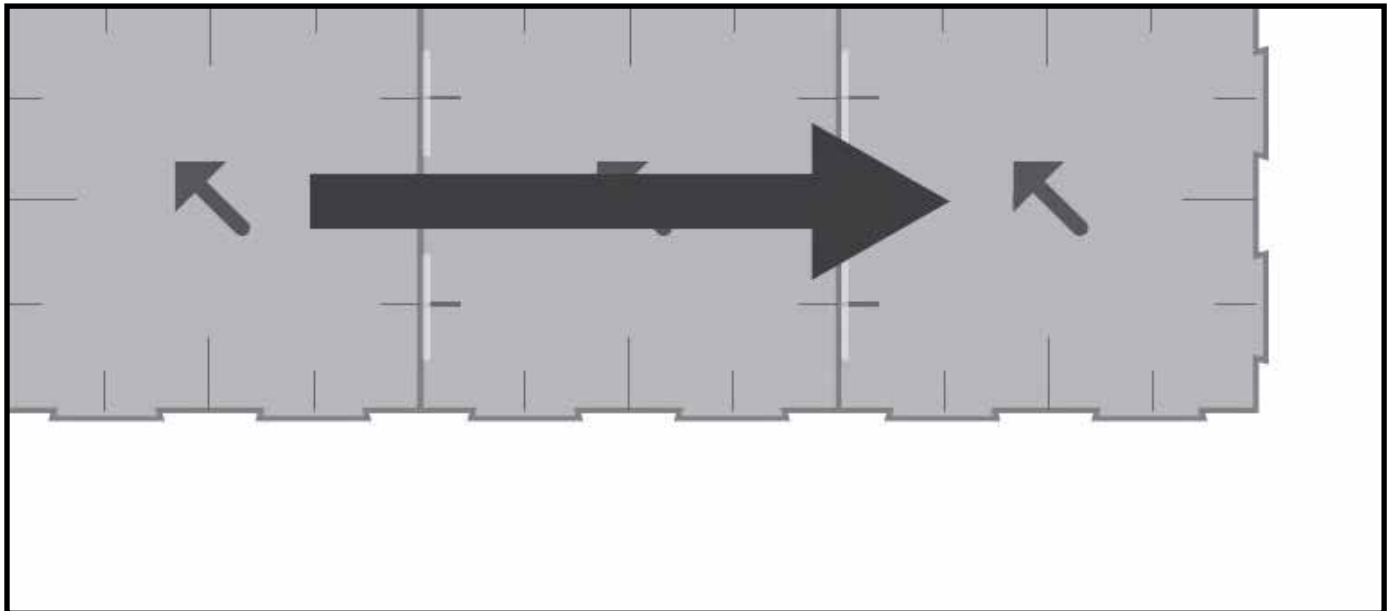


INSTALLATION STEPS

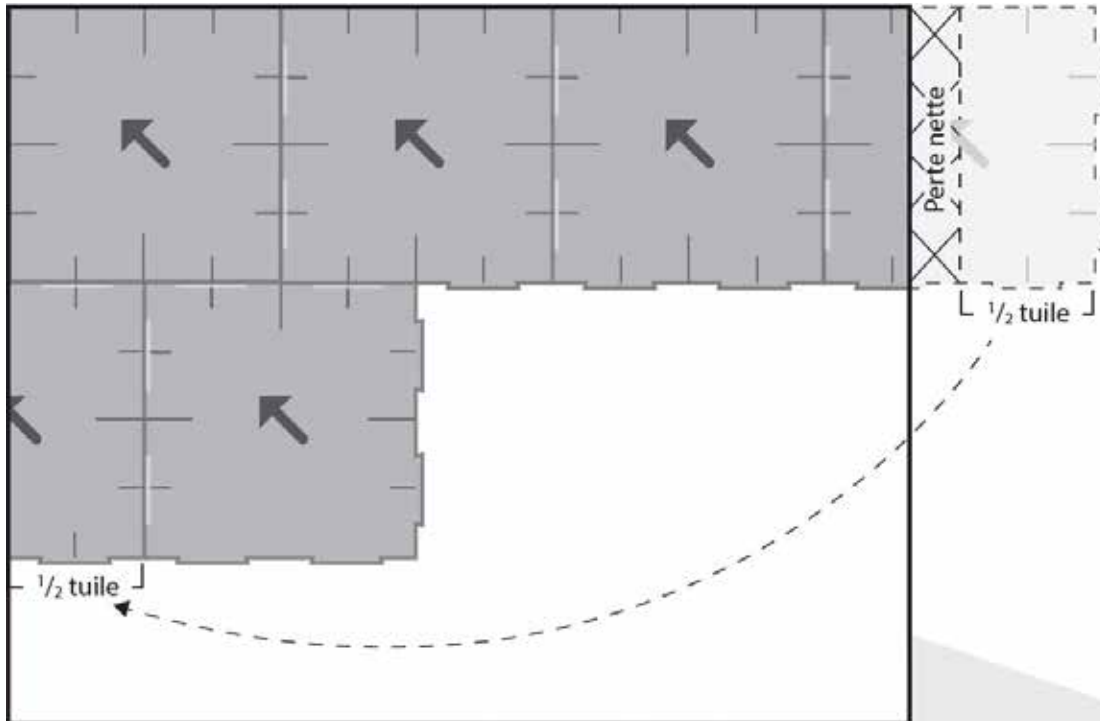
1. Before starting the installation, measure your room's dimension in inches. Divide the room's width and depth by 24 in (Ekösteps® insulation tile size) to determine the required number of tiles for each axis. The last tiles of each column and last row will need to be cut.



2. Start installation in a corner. Place tiles, inch-squared face on top (Ekösteps® logo visible). To assemble your first row of tiles, nest the grooves of each new file in the prior one's tongue.



3. You will have to cut the last tile. To make this easier, the tiles surface has cutting guides every inch. Make sure the arrows on all tiles point in the same direction. If the recut of the last file is at least 12-in, you can minimize waste by starting the next row with a half tile (12 in) and install them in a staggered pattern (like a brick wall).



4. NECESSARY STEP FOR CERAMIC INSTALLATION. Number your tiles if you must remove them for the glue-cement application to fix them to the ground.



PRECAUTIONS

It is recommended to limit the circulation on the tiles without floor covering to keep them safe from damage. Ekösteps® insulating tiles is not recommended as a floor covering or for daily circulation in a room and must not remain uncovered.

For installation of floating or engineered flooring, you can install the floorboards as you complete the Ekösteps® insulating tiles rows. In any other cases, or if you are completing the insulation subcoat before installing your floor covering, it is recommended to wear flat shoes with soft sole to minimize the risk of damaging the surface of the tiles.

Avoid walking on the tiles without shoes. To kneel on the Ekösteps® insulating tile while working, use a scrap tile or a cushion.

For 7mm floating boards, it is strongly recommended to place a rigid disk with a minimal diameter of 4 in (100mm) under each leg of any object over 500 lb (227 kg) per leg, such as a billiard table, to better spread the weight.



ekōsteps®



POLYROC®

Concrete-Finished Insulation Panel

POLYROC®

DESCRIPTION

Polyroc® wall panels are prefinished exterior insulation panels made of fine granular concrete, designed to be installed on a building's perimeter foundation walls—specifically on short walls (maximum ground height: 6 ft [1.8 m]). They can be used in both new construction and renovation contexts, as well as in commercial, residential, industrial, and institutional projects.

The panels are lightweight and easy to handle, weighing 15.5 lb (7 kg). They can be easily cut using a masonry saw blade. Each panel is cut square on the sides and grooved at the top and bottom to allow for anchor insertion. This product is reusable and can be removed and reinstalled at a later time.



Made in Canada



PRODUCT FEATURES

APPLICATIONS

Residential, commercial, industrial and institutional construction.

Effective insulation and a durable finish in a single step.

Designed for use above and below ground level and above ground level, against concrete blocks.

Easily dismantled and reused in expansion expansion projects.

Walls may require an air and/or vapour barrier, and foundations must be properly properly waterproofed below ground level.



TECHNICAL DATA SHEET



EPS Physical Properties	ASTM Test Method	ULC S701 Type 2
Thermal resistance 1 in (25mm) hr·°F·pi²/BTU (m²·°C/W)	C-518	Min : 4,0 Min : (0,70)
Water vapour permeability US Perm. (ng/Pa·s·m²)	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

21" X 48" (534mm x 1220mm)

Panel thicknesses:

2 1/4" (58mm)

2 3/4" (70mm)

3 1/4" (83mm)

or 4" (102mm)

Polystyrene thicknesses:

2" (51mm) R-8

2 1/2" (64mm) R-10

3" (77mm) R-12

3 3/4" (95mm) R-15

Other dimensions and densities are available on request.

ISO 9001:2015

Certified quality management system ISO 9001:2015.



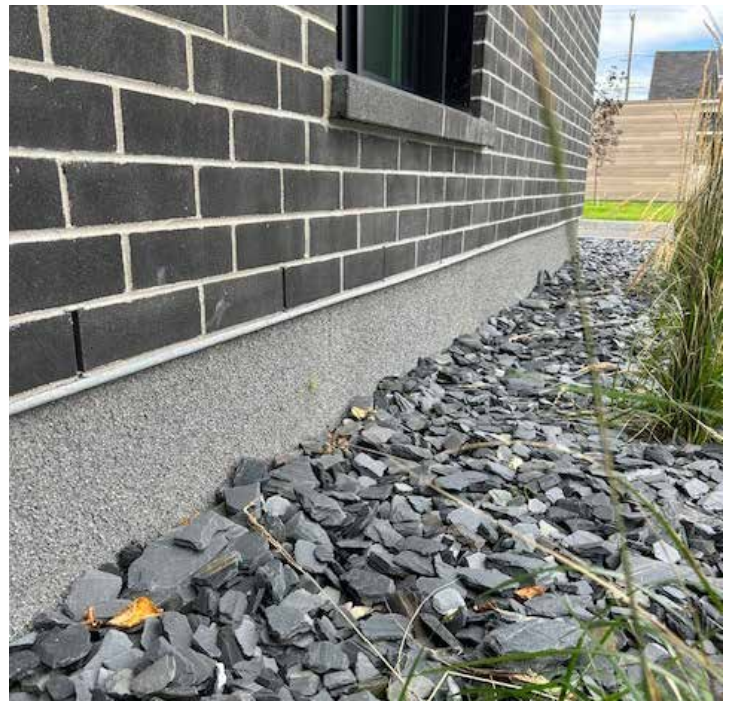
The expanded polystyrene used to manufacture POLYROC® is Intertek certified (ETL Listed) in accordance with **ULC S701**.

Warning

Flammable: interior applications require a protective barrier.

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POLYROC®



Installation guide

LAMINATED INSULATION PANELS WITH
FINE GRANULAR CONCRETE FINISH

PRODUCT DESCRIPTION

Polyroc® wall panels are prefinished exterior insulation panels made of fine granular concrete, designed to be installed on a building's perimeter foundation walls—specifically on short walls (maximum ground height: 6 ft [1.8 m]). They can be used for new buildings and renovations, as well as for commercial, residential, industrial and institutional projects.

The panels are lightweight and easy to handle, weighing 15.5 lb (7 kg). They cut easily with a masonry saw blade. Each panel is cut square on the sides and grooved on the top and bottom to accommodate anchors. This product is reusable, so it can be removed and reinstalled at a later date.

PANEL DIMENSIONS

Standard thicknesses: 2 ¼ in, 2 ¾ in, 3 ¼ in and 4 in.

Width: 21 in (534 mm)

Length: 48 in (1220 mm)

POLYSTYRENE THICKNESSES

2 in (51 mm) R-8

2 ½ in (64 mm) R-10

3 in (77 mm) R-12

3 ¾ in (95 mm) R-15

Custom insulation panel thickness is available

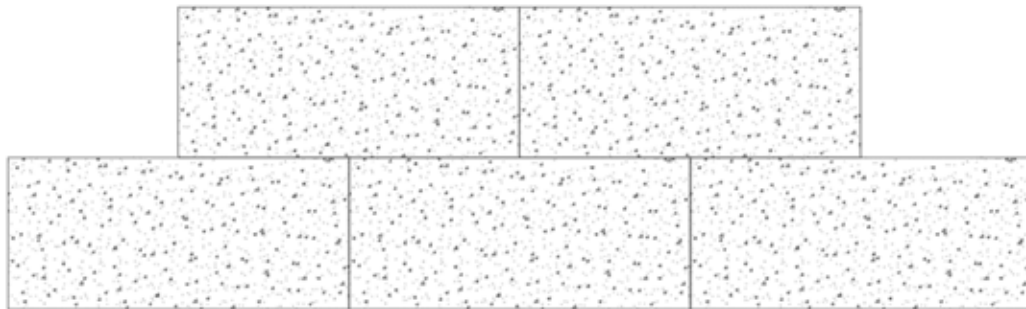
CONCRETE THICKNESS

¼ in (7 mm), factory-applied with a gray natural stone finish.

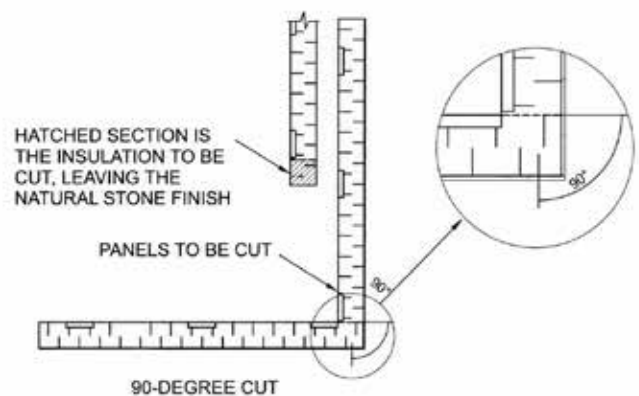
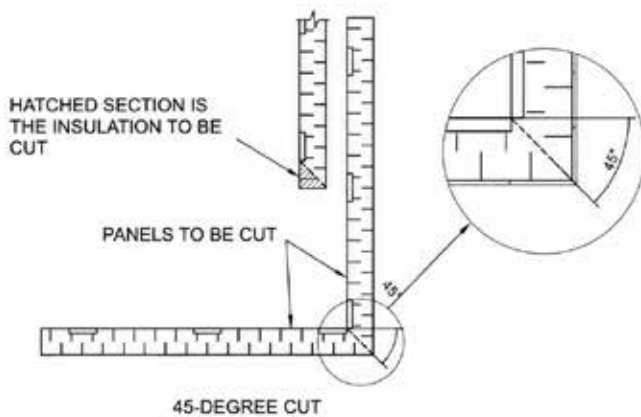
WORK EXECUTION

Panels can be installed horizontally on low walls. It is important to eliminate any masonry irregularities or uneven surfaces on foundations or exterior walls before installation. The polystyrene panels can be shaped so that they lie flat against the walls. This will reduce or prevent cracks caused by uneven wall surfaces. An air and/or vapour barrier can be pre-installed on walls and foundations, which must be properly waterproofed below grade.

Panels should be installed in such a way that the joints are not aligned, e.g. brick-style.

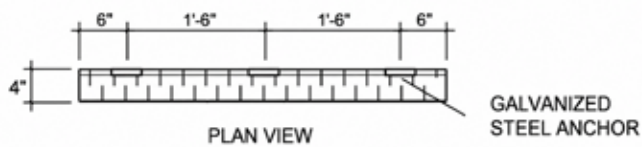


Corners can be cut at 45° or 90°, removing an edge of insulation.



HARDWARE

Panels are installed using specially designed galvanized steel mounting brackets. These fasteners are supplied with the panels. Three anchors must be installed 6" (15 mm) from the end and 18" (46 cm) center-to-center. These anchors are fastened with Ucan Scru-it or equivalent concrete screws. The screw must be inserted into the structure at least ¼" (7 mm) deep.

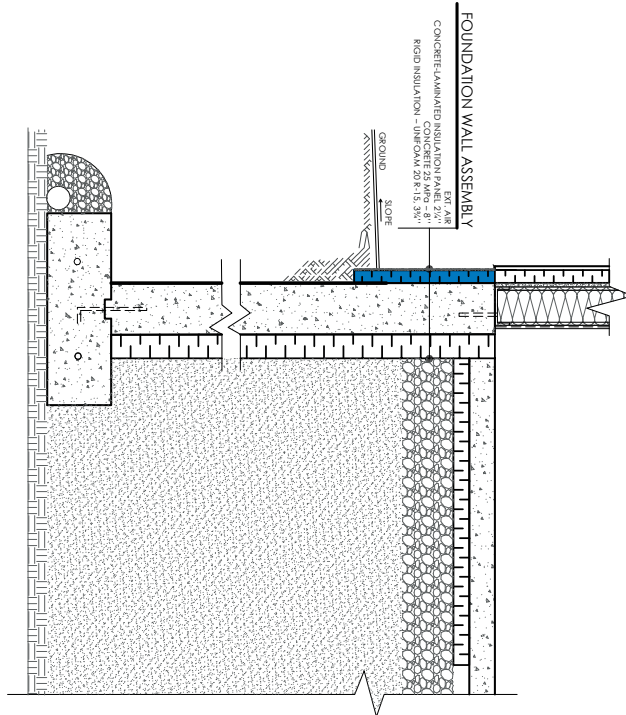


FIRE PROTECTION

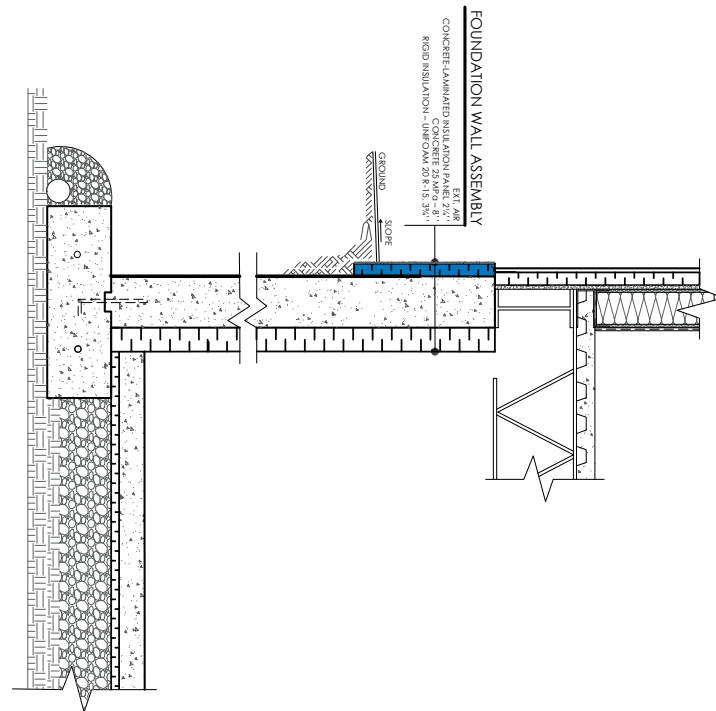
Concrete-laminated insulation boards are combustible: protect them from sources of high heat.

DELIVERY

Panels are shipped on pallets. They are protected by a protective membrane, so they can be stored indoors or outdoors.



▼ FROST WALL FOUNDATION



▼ BASEMENT FOUNDATION

Polyform
855 Bd Industrial
Grandy, QC J2S 1A6

THE INFORMATION CONTAINED IN THIS DRAWING IS A PRESENTATION OF THE APPLICATION OF OUR PRODUCTS. IT REPRESENTS A STATE-OF-THE-ART CONSTRUCTION METHOD IN COMPLIANCE WITH THE NATIONAL BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SUITABILITY OF THIS APPLICATION FOR HIS PROJECT.

DESCRIPTION FOUNDATION WALL SECTION -
CONCRETE-LAMINATED INSULATION PANELS

PRODUCT POLYROC

SCALE 1/2"=1'-0"

DATE 07/11/2021

NO. C-16

POLYLAM®

OSB-Laminated EPS Insulation Panel

POLYLAM[®]

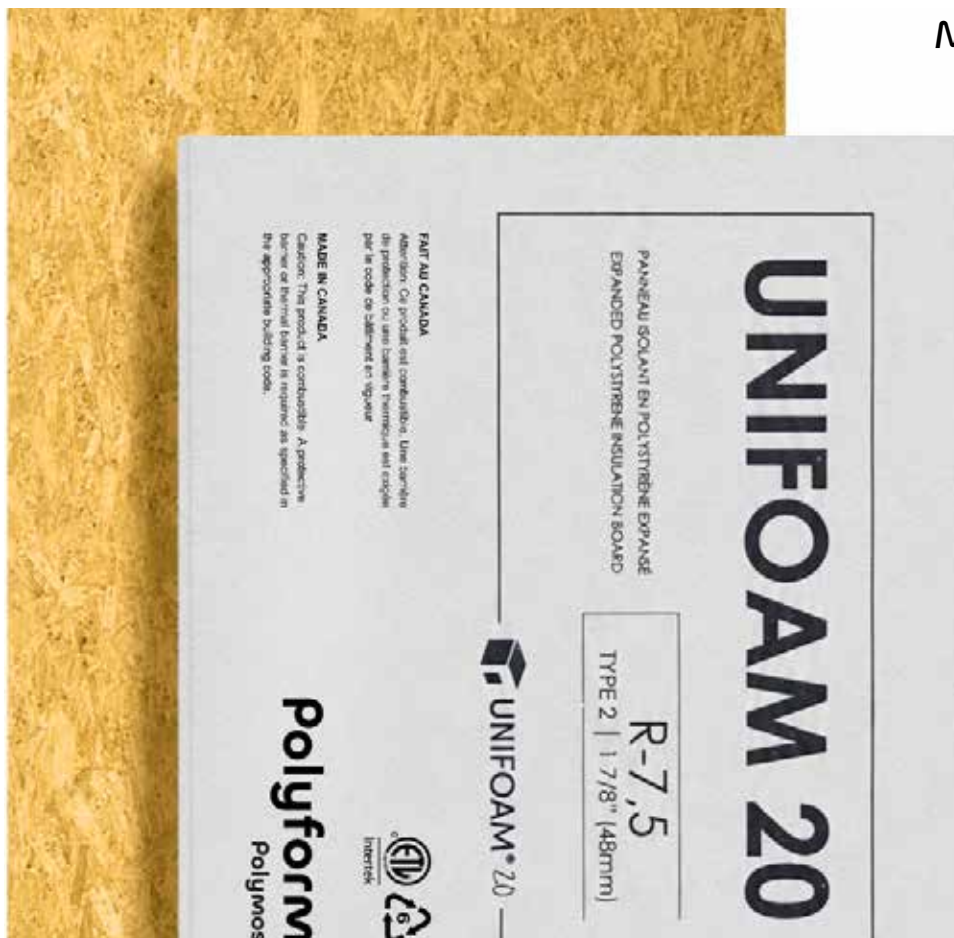
DESCRIPTION

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.



TECHNICAL DATA SHEET OF THE EPS PANEL



EPS Physical Properties	ASTM Test Method	ULC S701 Type 2
Thermal resistance 1 in (25mm) hr·°F·pi²/BTU (m²·°C/W)	C-518	Min : 4,0 Min : (0,70)
Water vapour permeability US Perm. (ng/Pa·s·m²)	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.

Warning

Flammable: interior applications require a protective barrier.

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

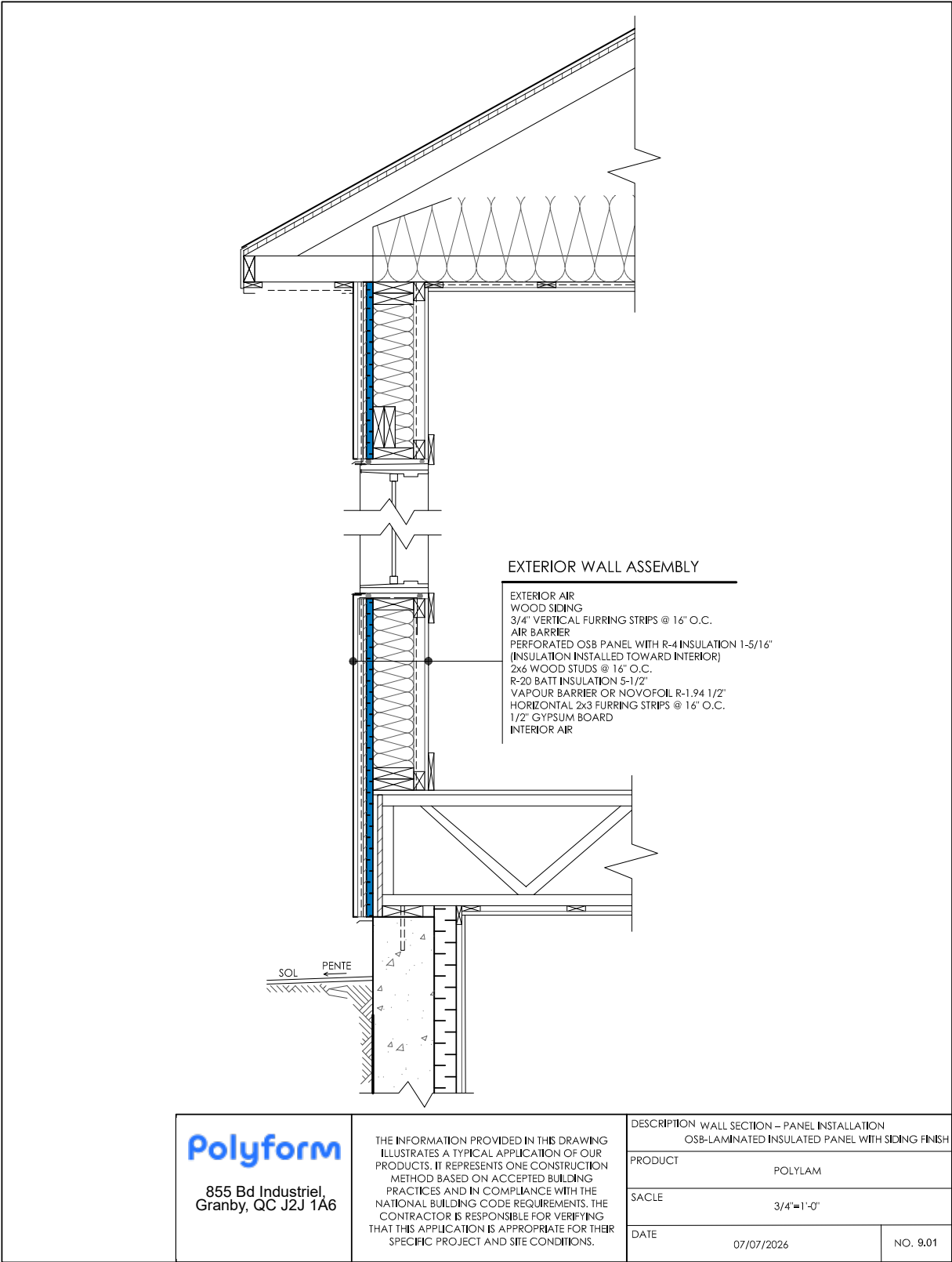
POLYLAM[®]

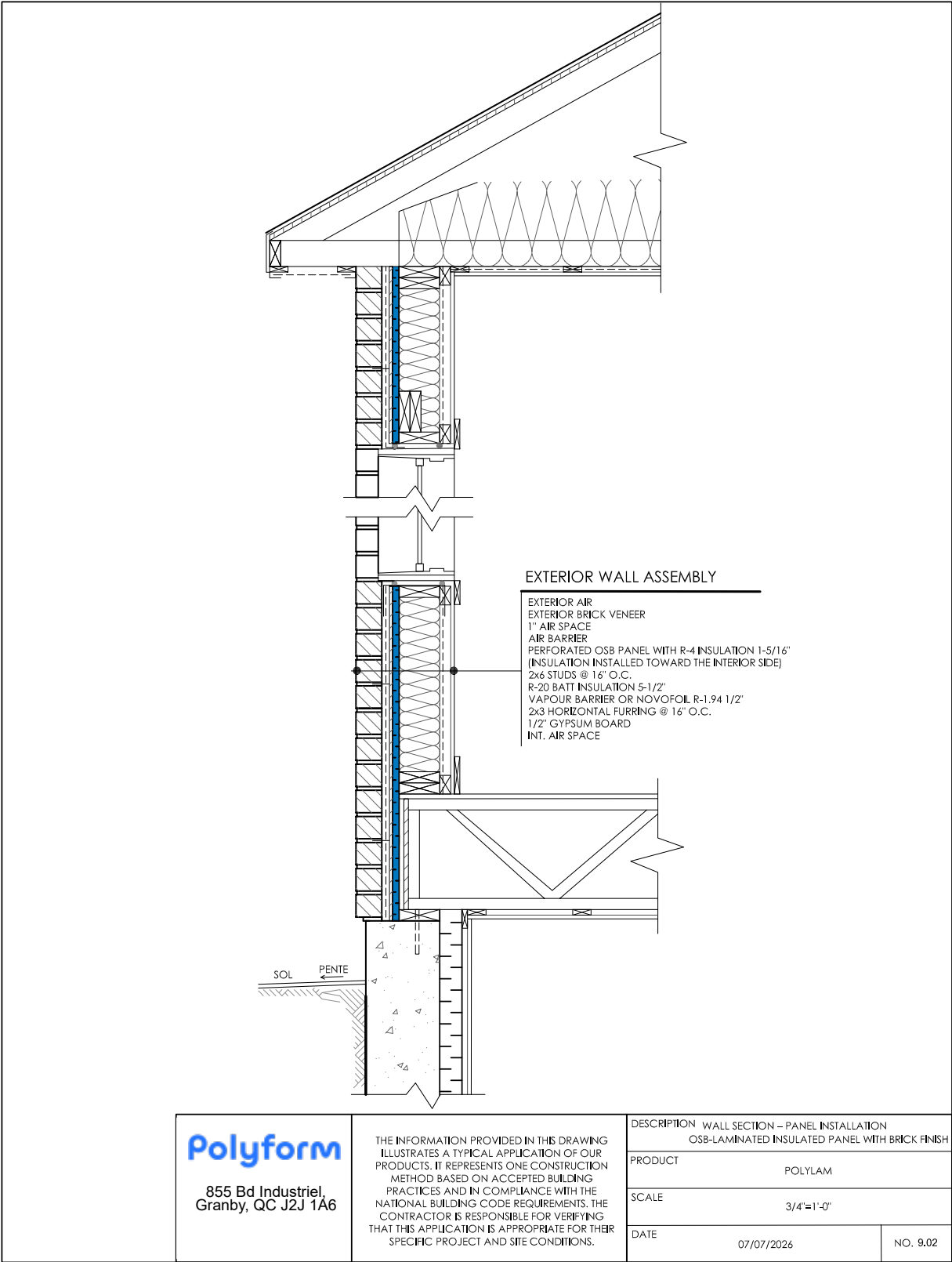


POLYLAM[®]



POLYLAM[®]





HYDROFOAM®

Hydronic Radiant Floor Insulation Board

HYDROFOAM®

DESCRIPTION

Molded insulation panel for hydronic radiant floor heating systems

HYDROFOAM®

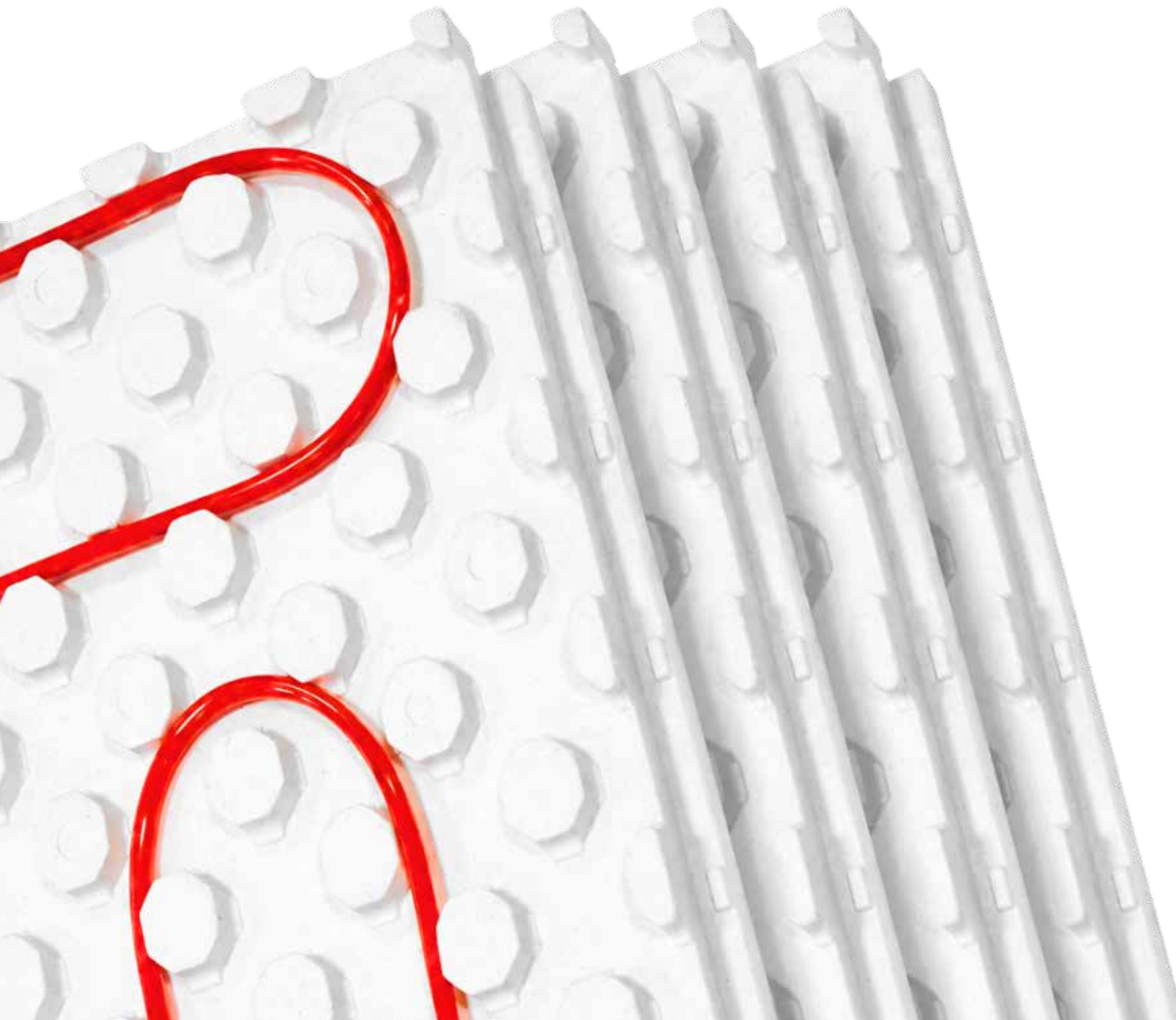
- 4 ft × 4 ft (1219 mm × 1219 mm)
- Multidirectional anchors designed to accommodate 1/2 in. (13 mm) or 5/8 in. (16 mm) tubing
- 1 in. (25 mm) shiplap interlock on all four sides

HYDROFOAM® nano

- 2 ft × 4 ft (610 mm × 1219 mm)
- Multidirectional anchors designed to accommodate 1/2 in. (13 mm) tubing
- 1 in. (25 mm) shiplap interlock on all four sides



Made in Canada



HYDROFOAM®

FEATURES

Applications

HYDROFOAM®

Residential, Commercial, Industrial, and Institutional Construction

Insulation beneath the concrete slab

HYDROFOAM® nano

Residential, Commercial, Industrial, and Institutional Construction

Insulation over the concrete slab or plywood subfloor

Advantages

Superior Performance

Efficient installation: multidirectional anchors allow heating tubes to be inserted uniformly

Fast installation: anchors securely hold the tubing in the desired direction without the need for ties

Stronger and more durable: molded from high-density expanded polystyrene (EPS)

Lightweight and easy to handle

Enhanced comfort: helps maintain a stable and consistent indoor temperature year-round

Cost Savings

Permanent insulating value

Excellent value for money

Energy savings by eliminating thermal bridges

Reduced labor required during installation

Environmentally Friendly

100% recyclable

Contains no CFCs or HCFCs

Resistant to water and moisture, which can be primary causes of mold growth

Non-toxic, composed of 98% air and 2% material

Safe to handle and non-irritating to the skin

May contribute to earning LEED® project credits

HYDROFOAM®

TECHNICAL DATA SHEET

EPS Physical Properties	ASTM Test Method	ULC-701 Type 2 Requirements	Type 2 HD Results
Thermal resistance 1 in (25mm) hr·°F·pi²/BTU (m²·°C/W)	C-518	Min : 4,0 Min : (0,70)	4,03 (0,71)
Water vapour permeability US Perm. (ng/Pa·s·m²)	E-96	Max : 3,5 Max : (200)	2,14 (122)
Dimensional stability (%)	D-2126	Max : 1,5	0,3
Flexural strength lb/in² (kPa)	C-203	Min : 35 Min : (240)	53 (360)
Water absorption (%)	D-2842	Max : 4,0	0,23
Compressive properties lb/in² (kPa)	D-1621	Min : 16 Min : (110)	23 (157)
Limiting oxygen index (%)	D-2863	Min : 24	28
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.			

All HYDROFOAM® panels comply with the new Part 11 – Energy Efficiency requirements of the Quebec Construction Code (Building Chapter) for under-slab insulation when a hydronic heating system is used.

AVAILABLE SIZES

4 ft × 4 ft (1219 mm × 1219 mm) available in the following thicknesses: 2-1/2 in. (64 mm), R-10, resulting in an overall thickness of 3-3/8 in. 83 mm) with anchors and 4 in. (102 mm), R-16, resulting in an overall thickness of 4-7/8 in. (121 mm) with anchors

ISO 9001:2015

Certified quality management system ISO 9001:2015.

Warning

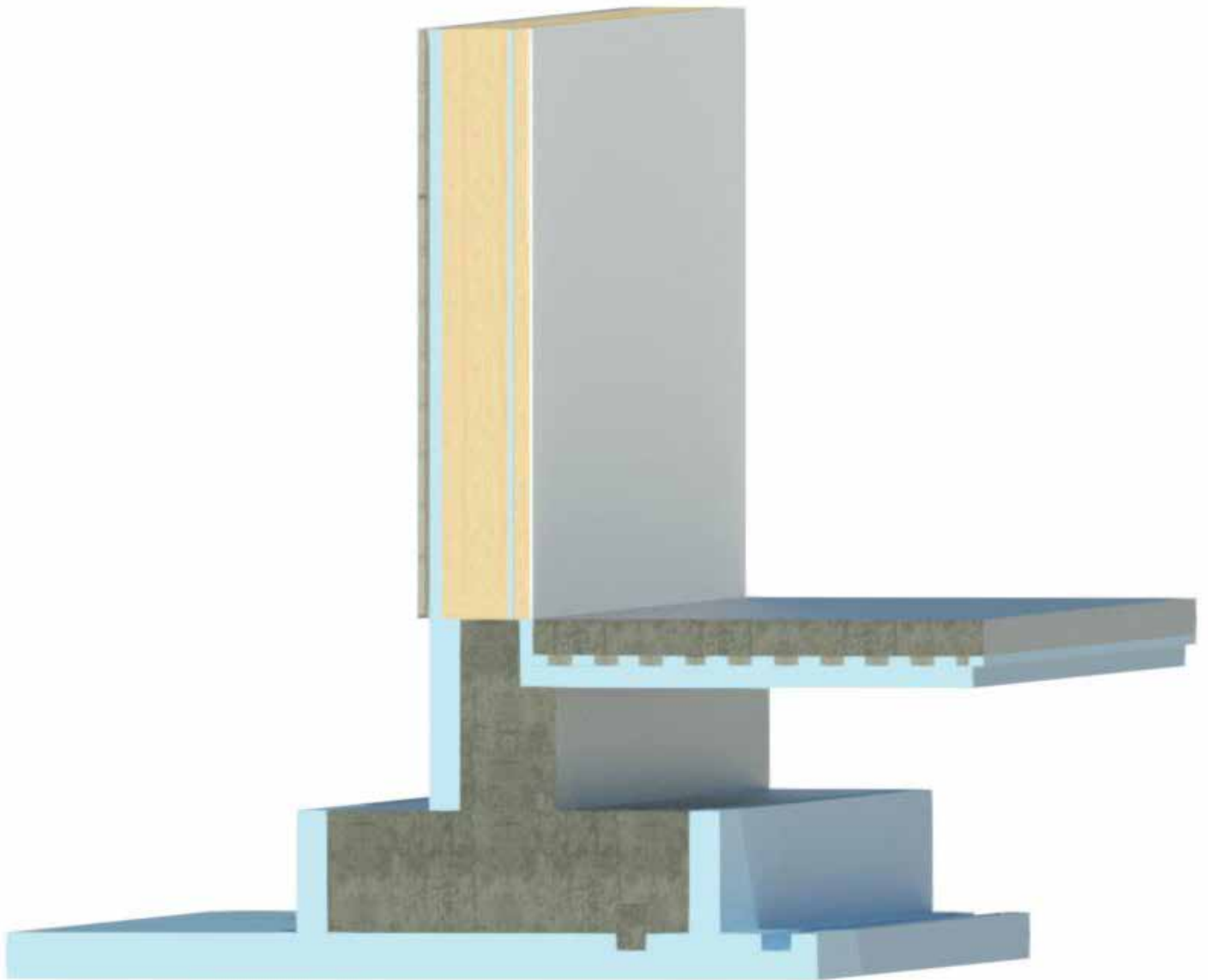
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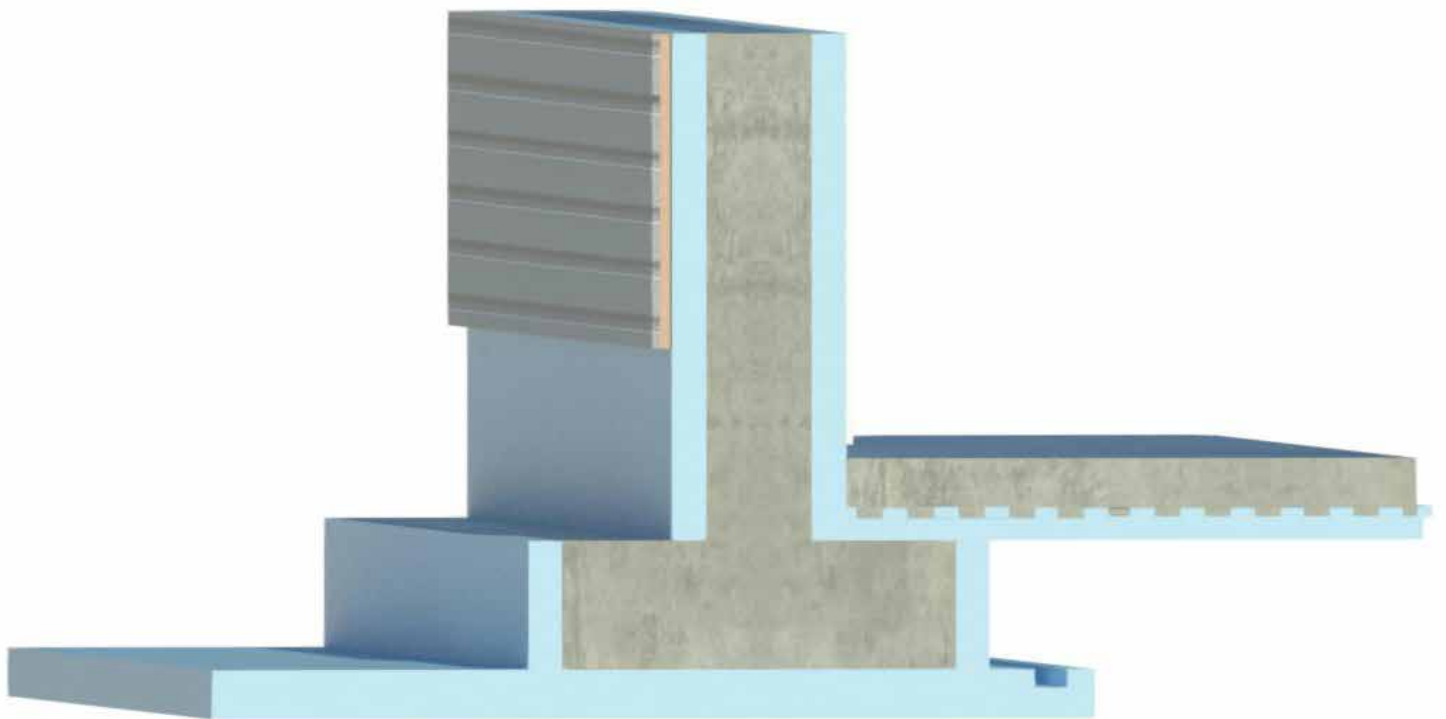


The expanded polystyrene used to manufacture HYDROFOAM® is Intertek certified (ETL Listed) in accordance with **ULC S701**.

HYDROFOAM®



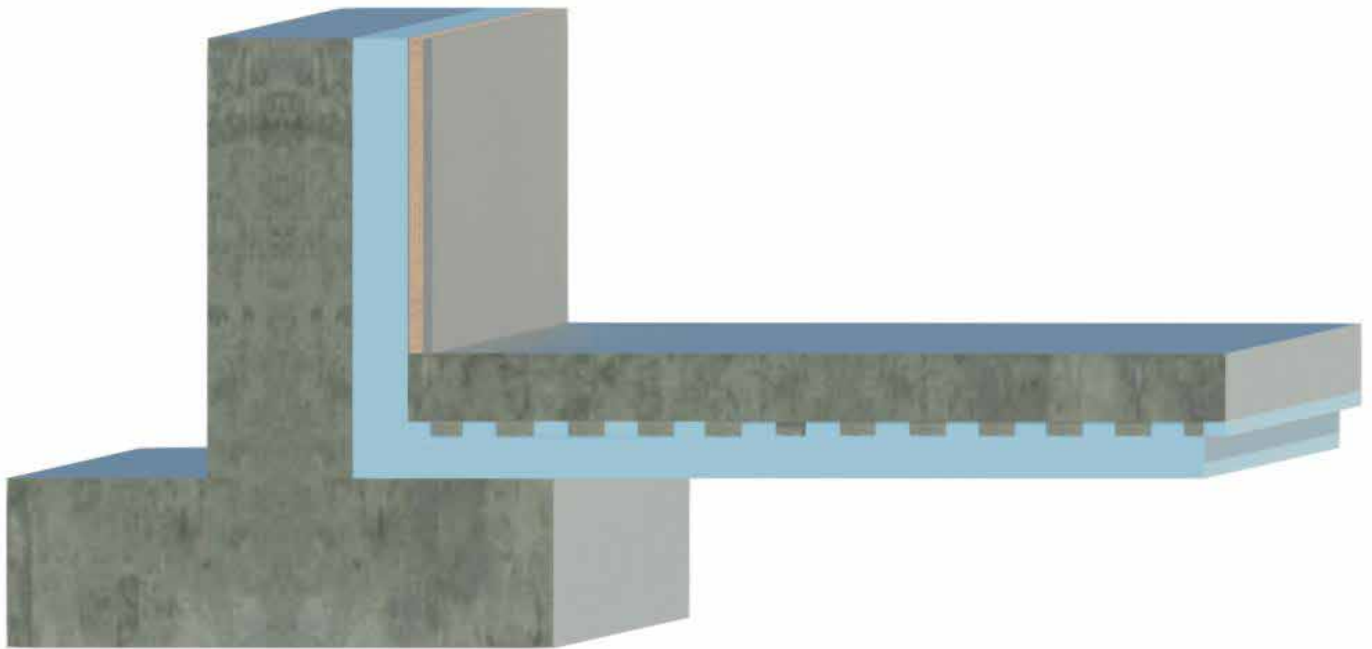
HYDROFOAM®



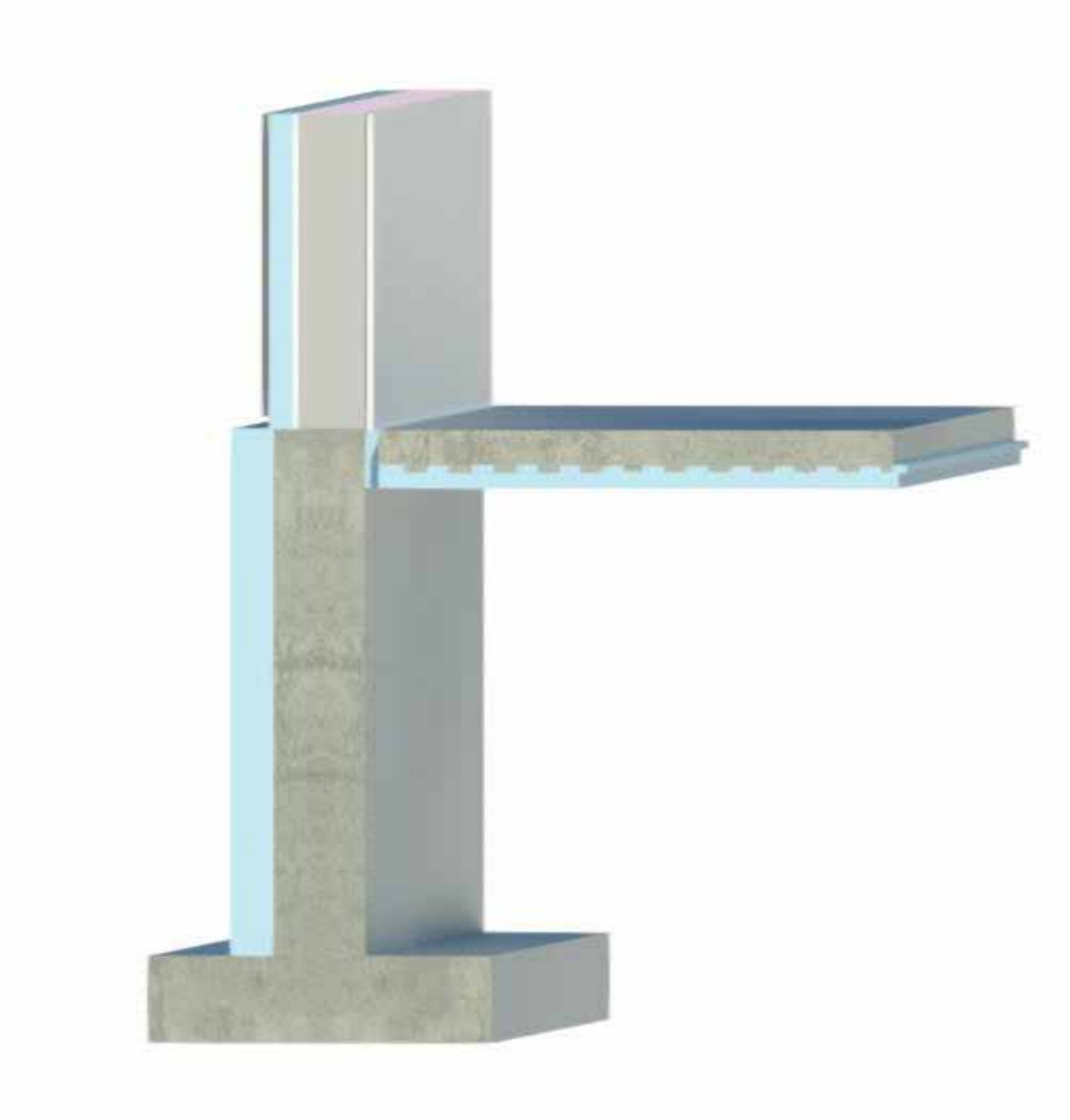
HYDROFOAM[®]



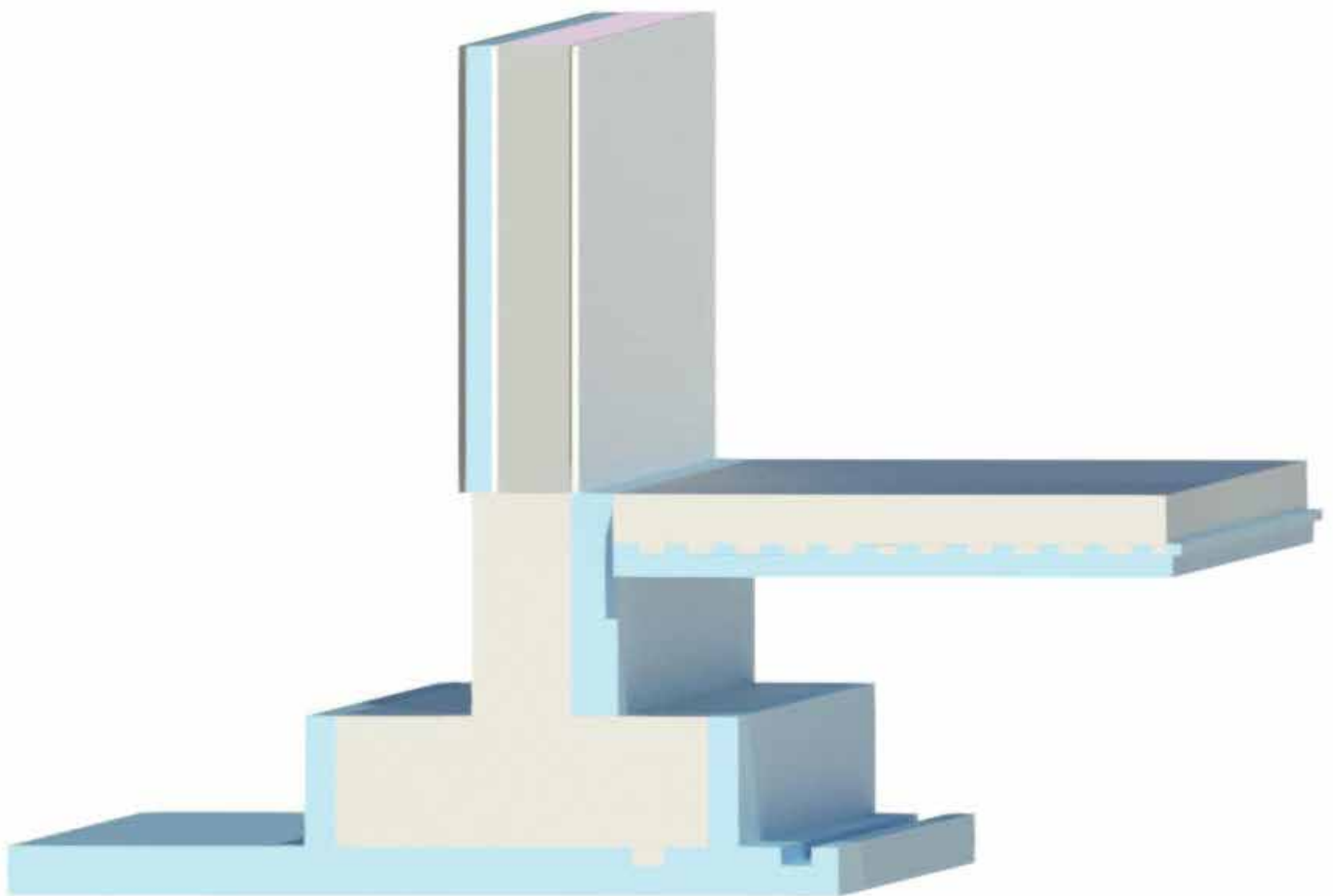
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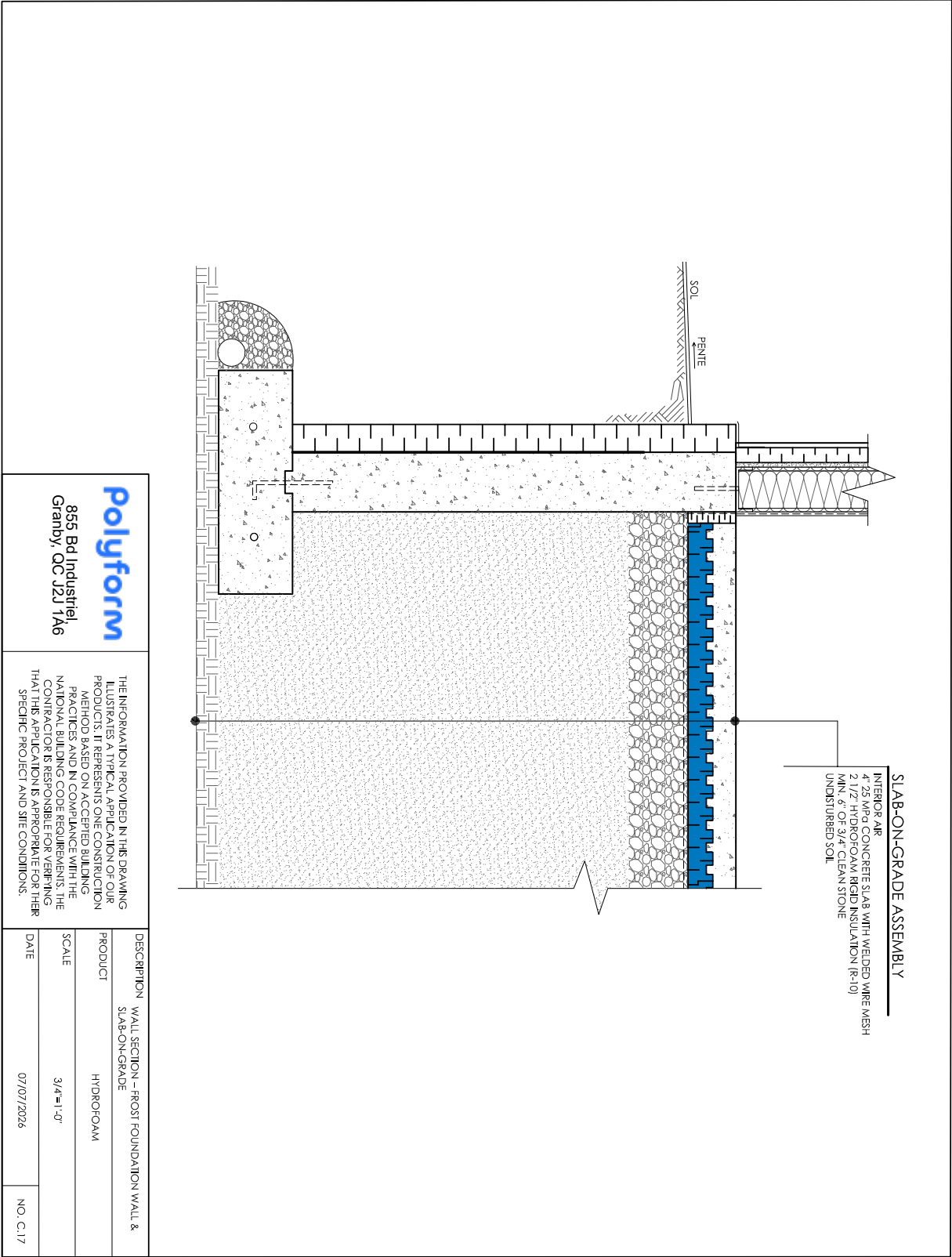
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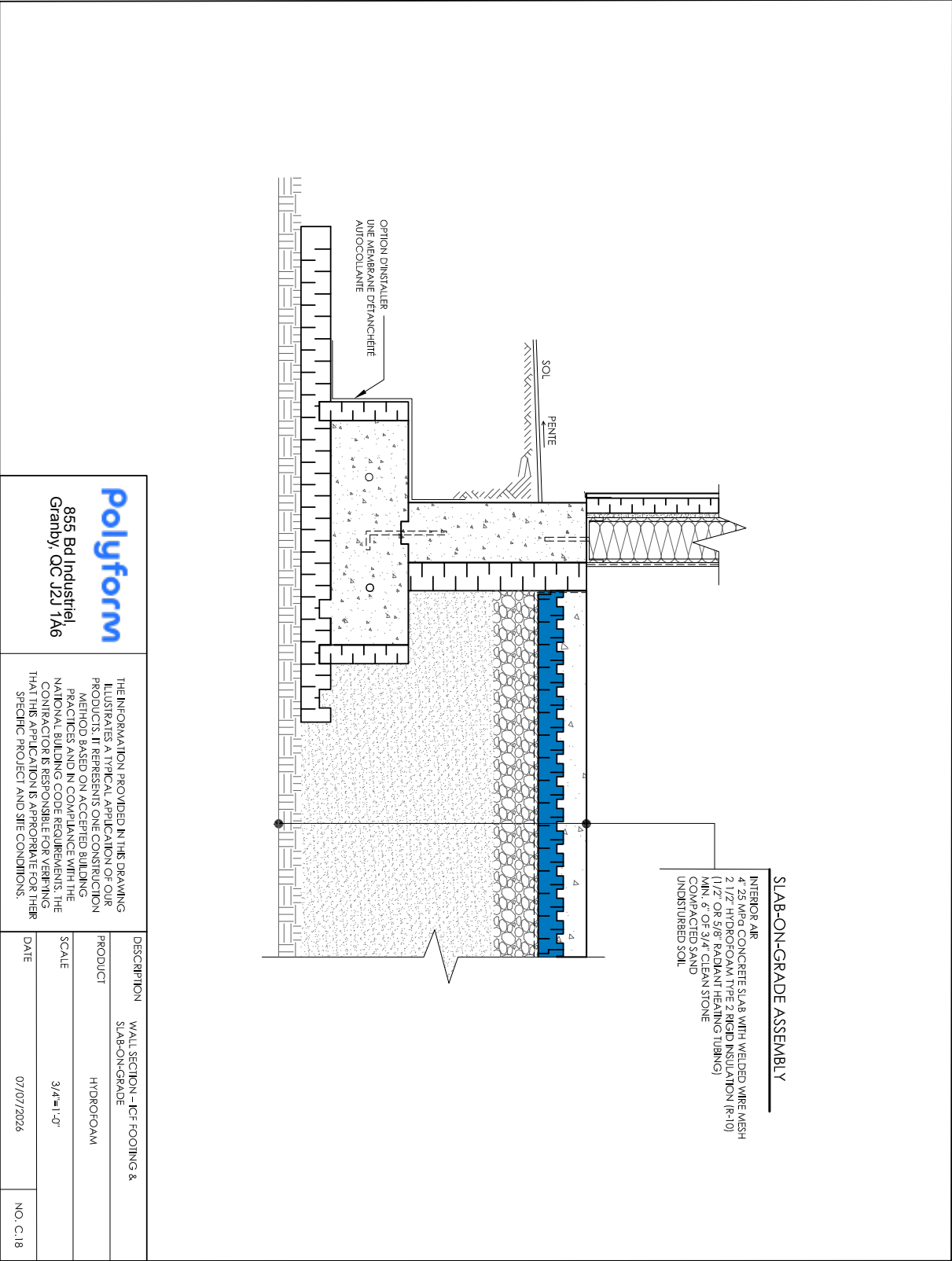


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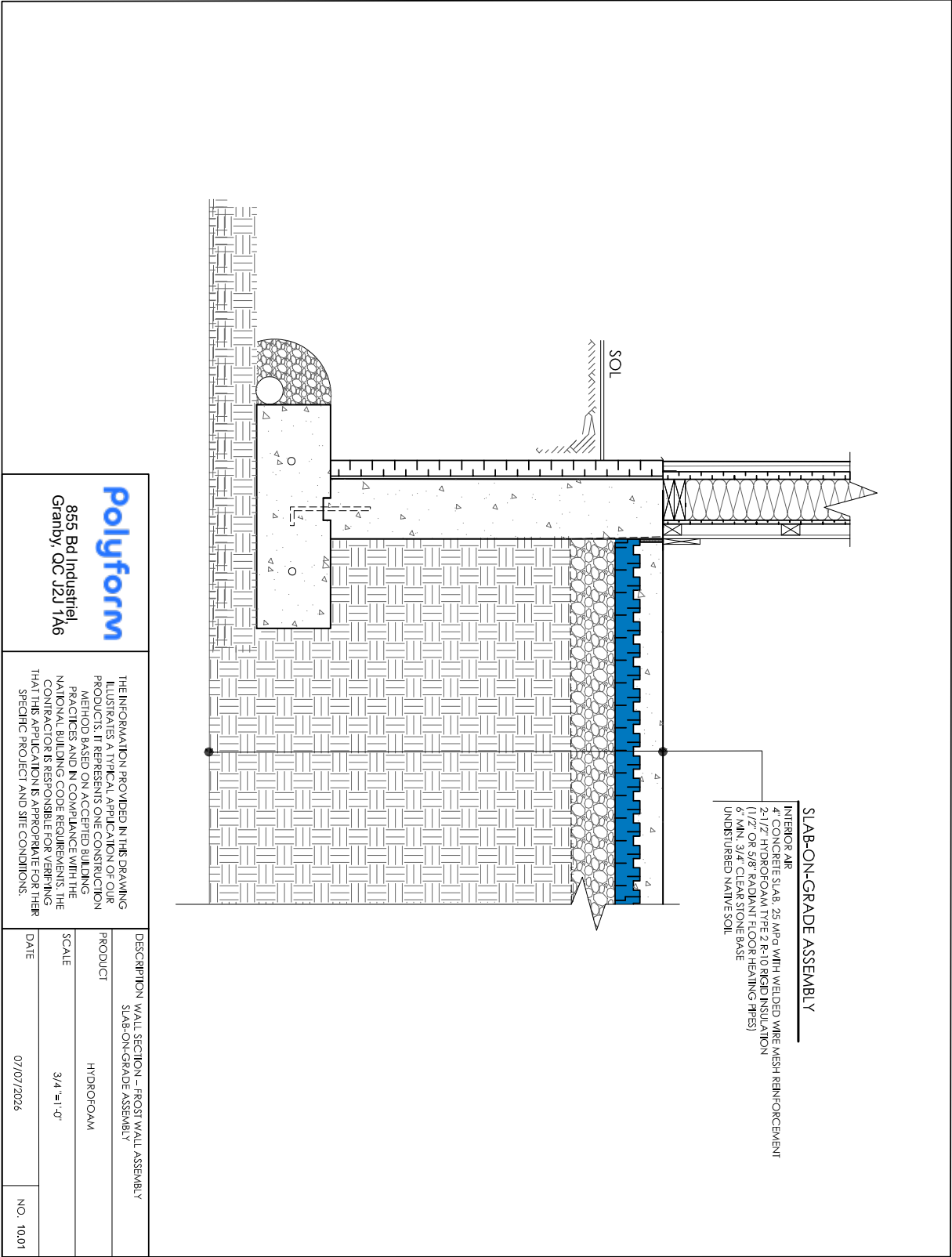


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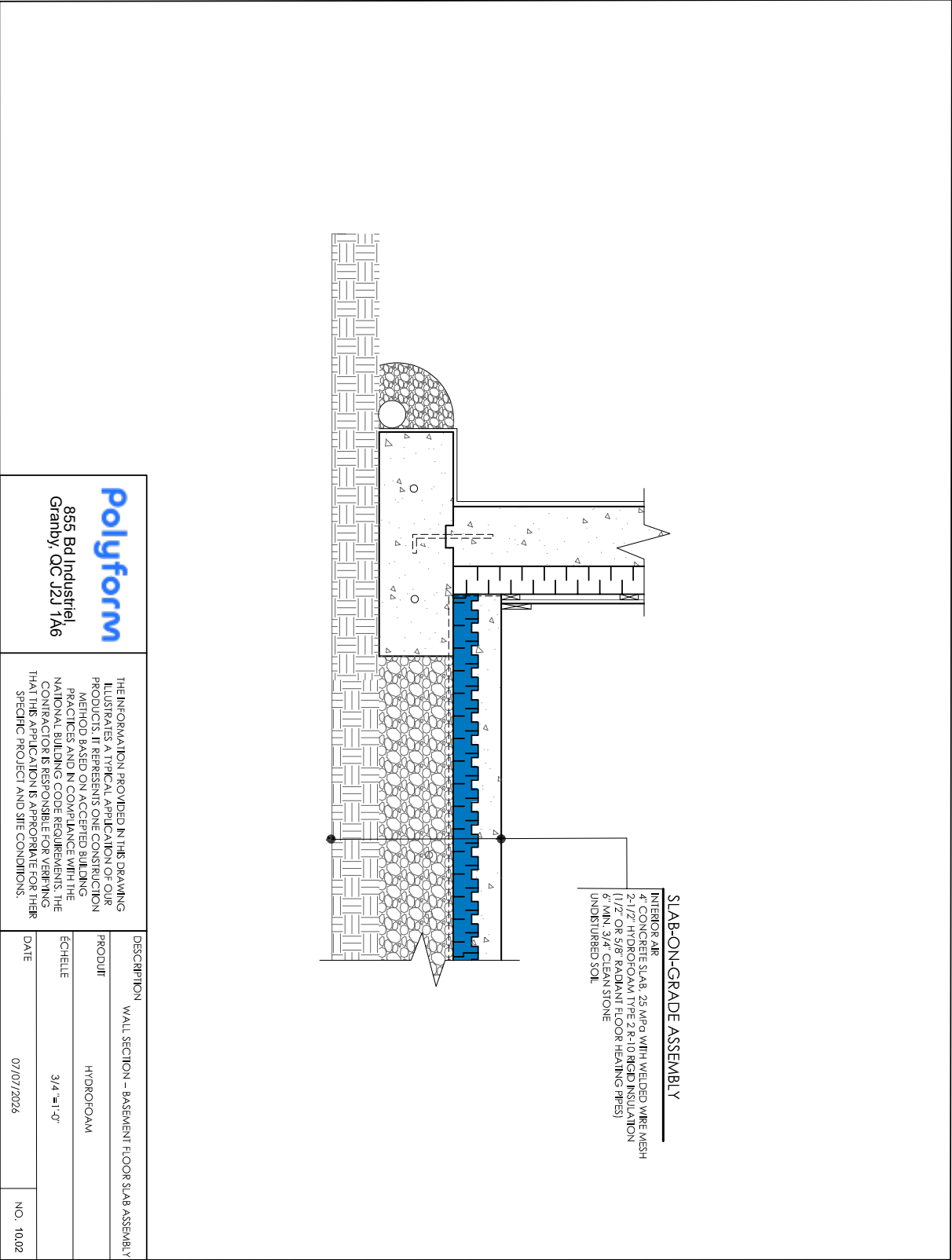




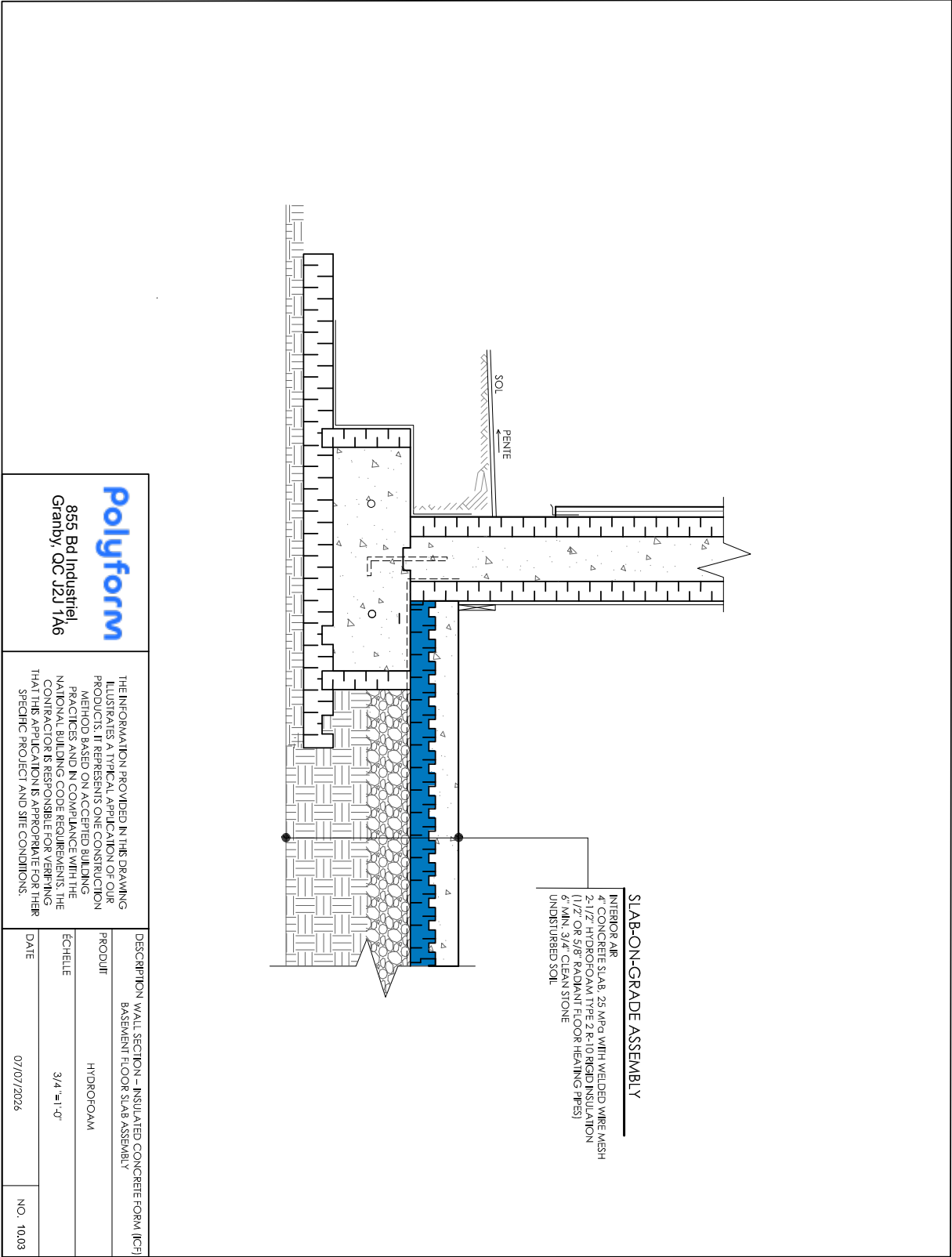
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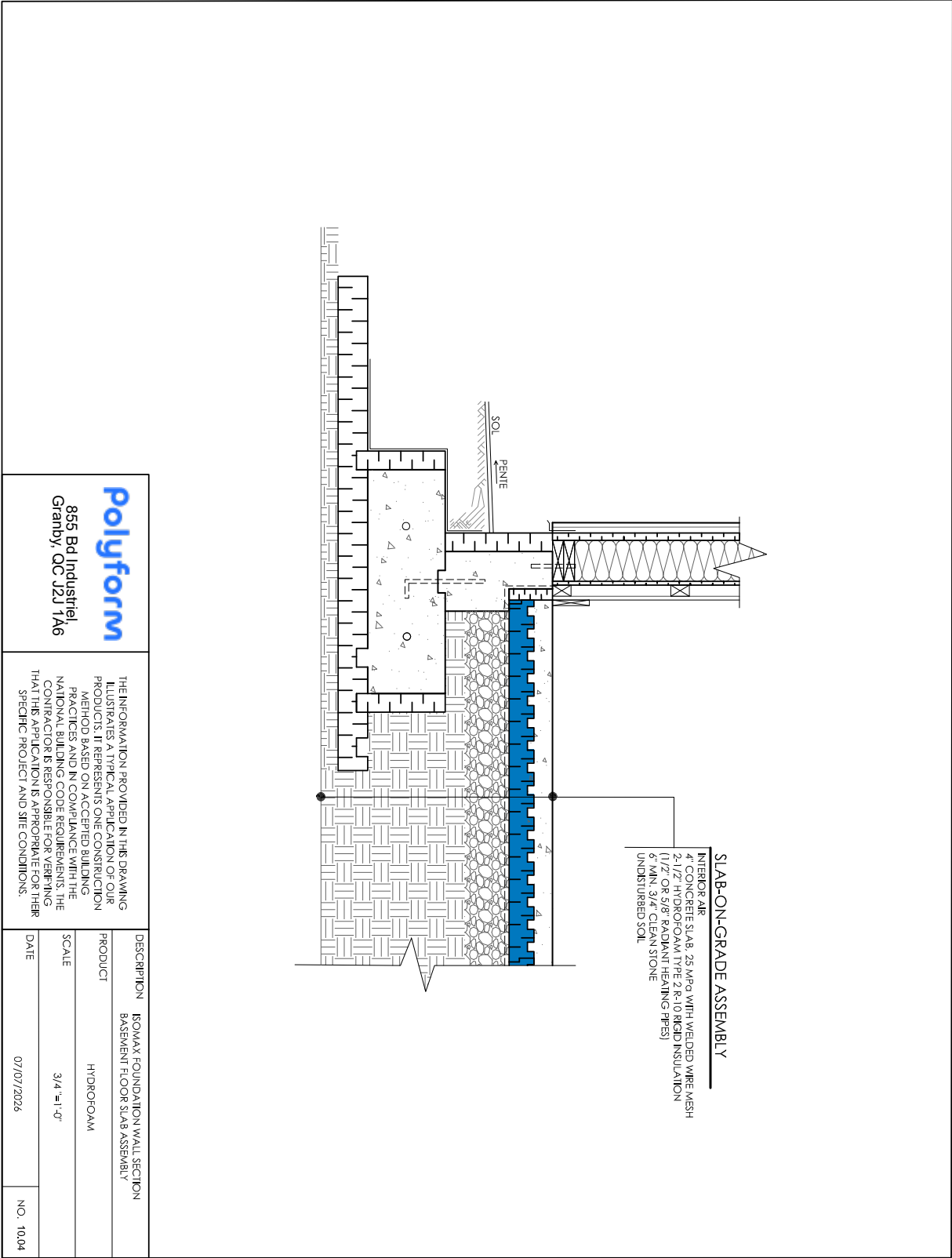
HYDROFOAM®



HYDROFOAM®



HYDROFOAM®



HYDROFOAM®

INSTALLATION GUIDELINES

1. Install beneath the concrete slab only.

It is important that the subgrade is level and even (ideally compacted).

2. If required, install a Vapour barrier over the subgrade before covering the surface with HYDROFOAM® panels.

3. Insert the hydronic radiant floor heating tubes in the desired layout between the multidirectional anchors.

4. Once the tubing is installed, pour the concrete directly over the panels (refer to your local building code requirements).

5. For HYDROFOAM® nano, follow the same steps, but install the insulation panel over the existing concrete slab or plywood subfloor.



HYDROFOAM[®]



HYDROFOAM®



HYDROFOAM[®]



Contact

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