HYDROFOAM®

Hydronic Radiant Floor Insulation Board

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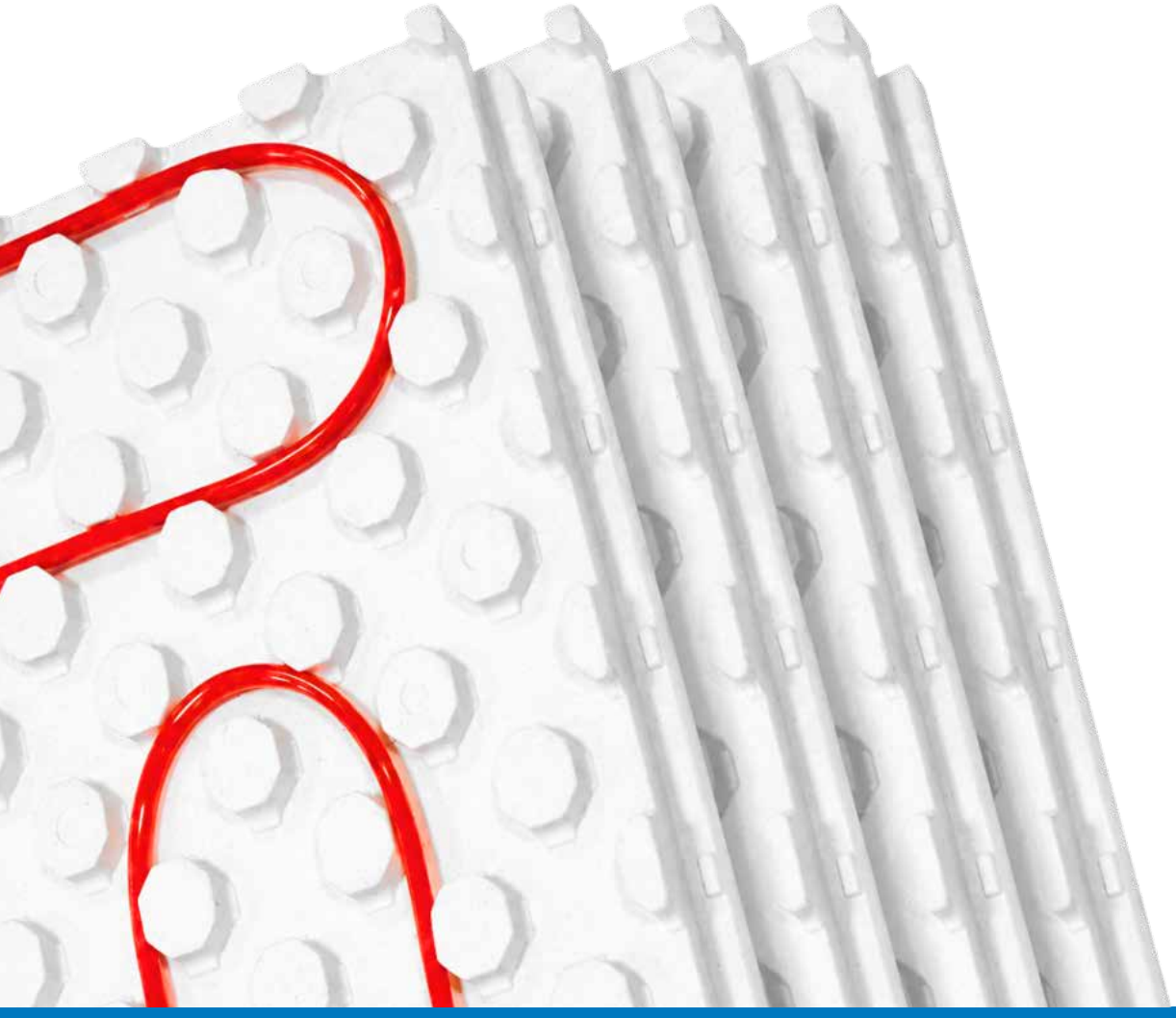
DESCRIPTION

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



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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

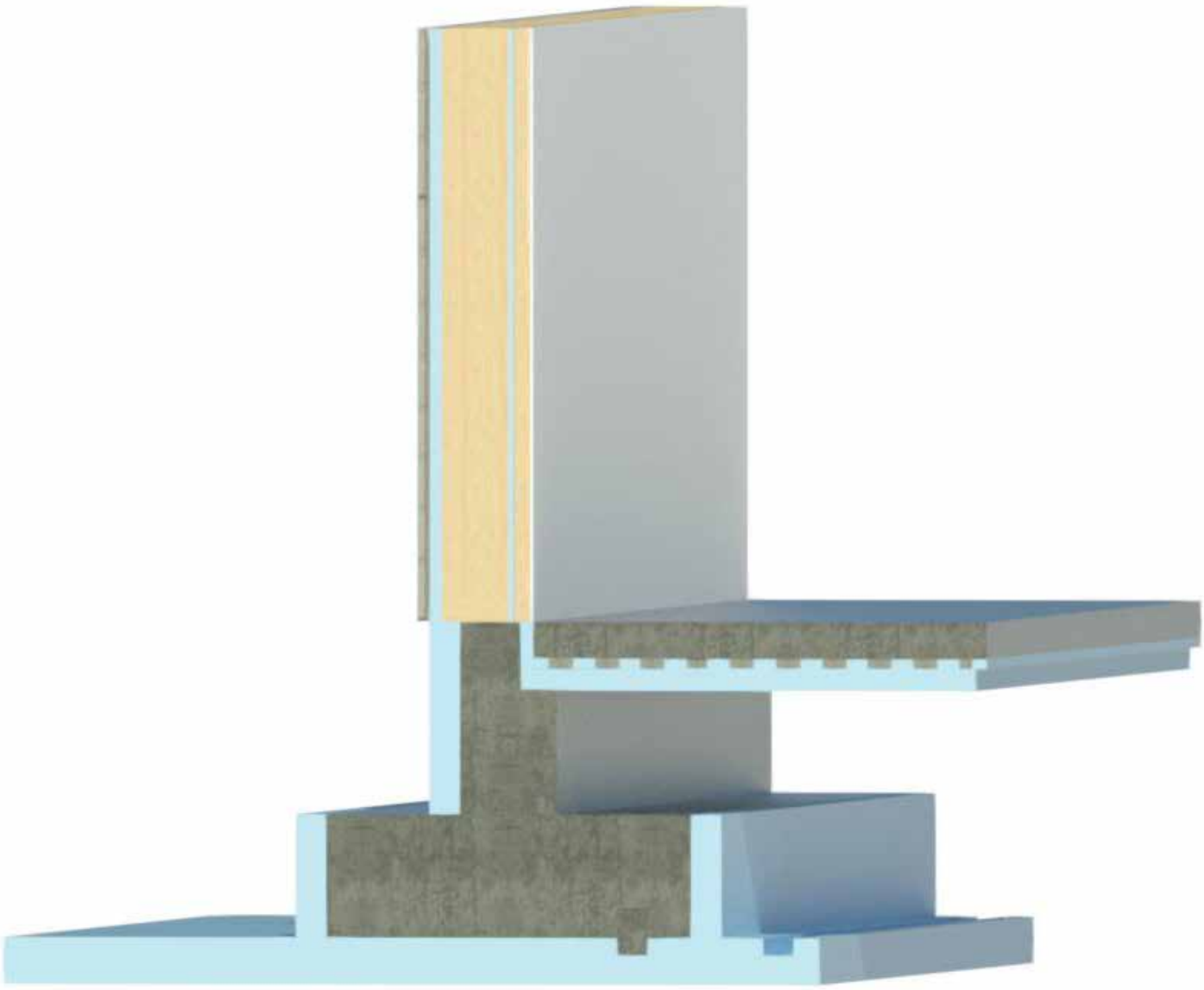
ISO 9001:2015
Certified quality management system ISO 9001:2015.

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

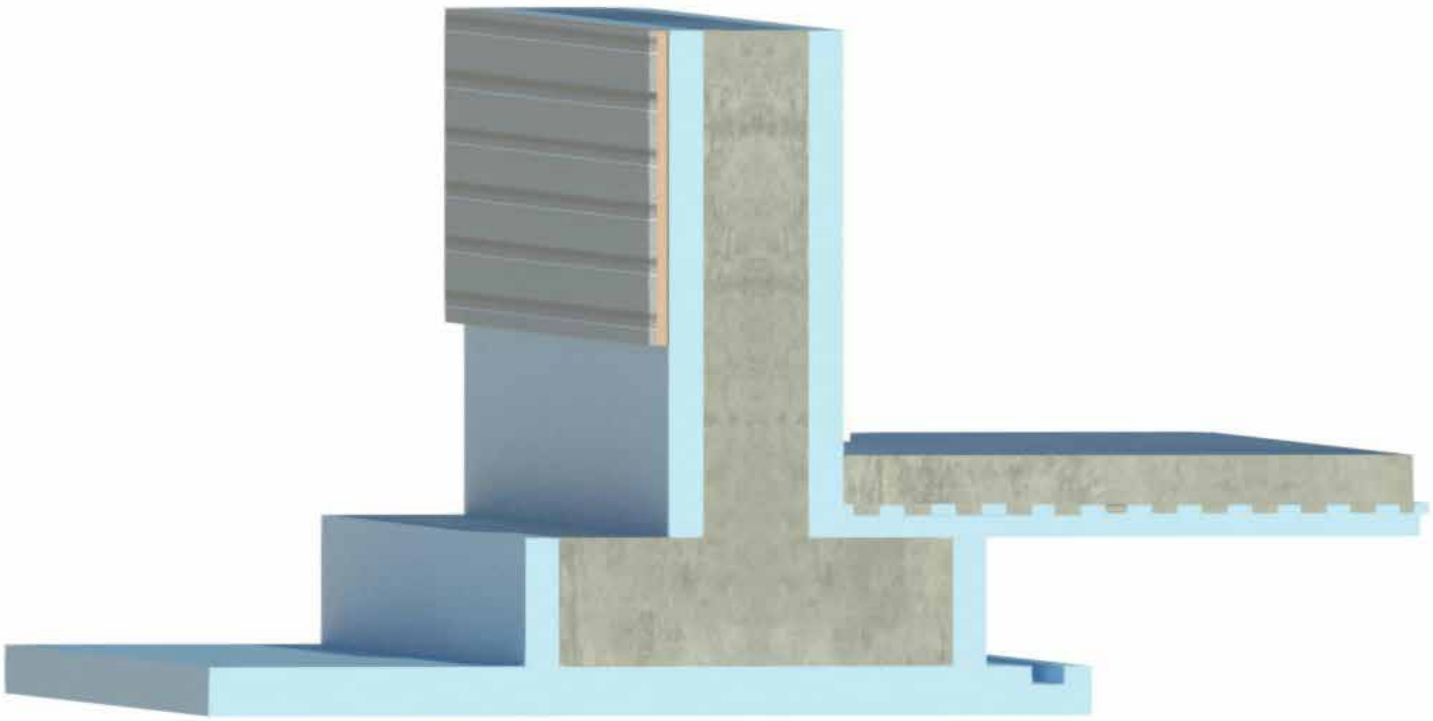
Warning
Flammable: interior applications require a protective barrier.

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

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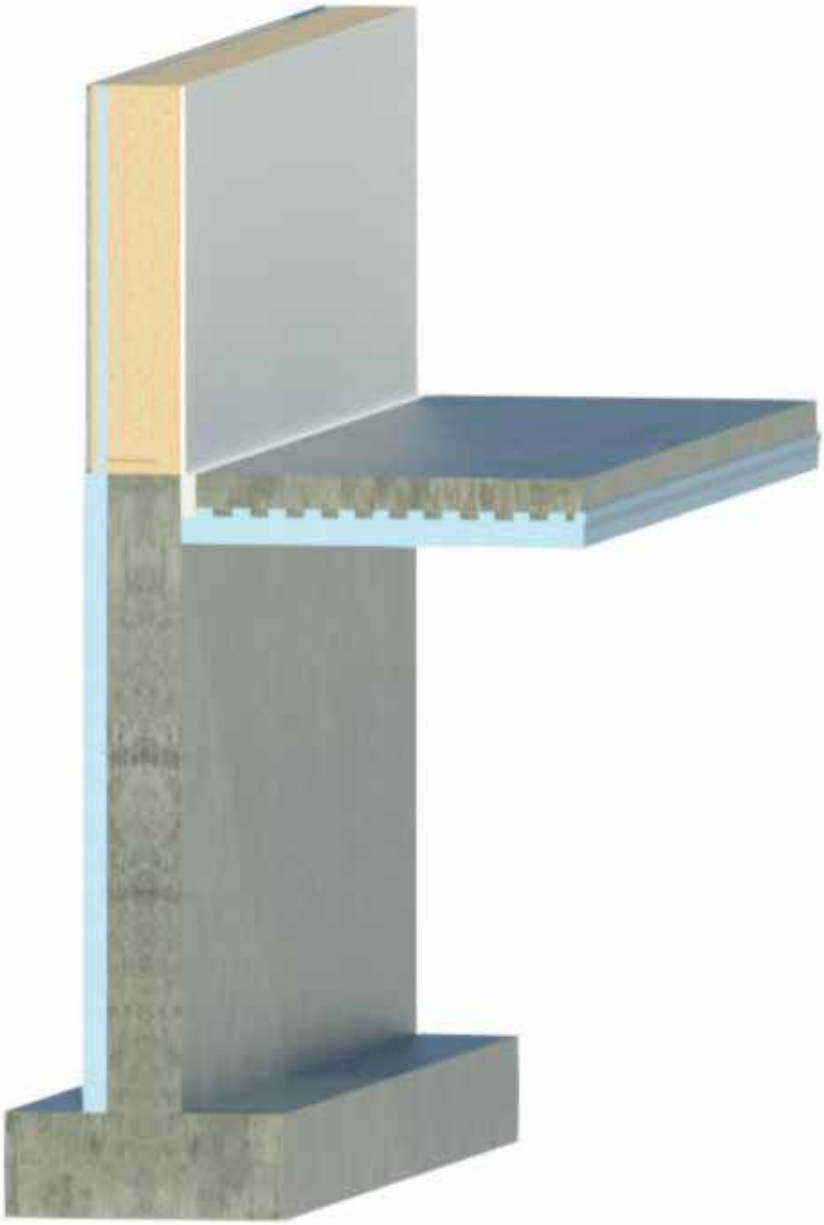


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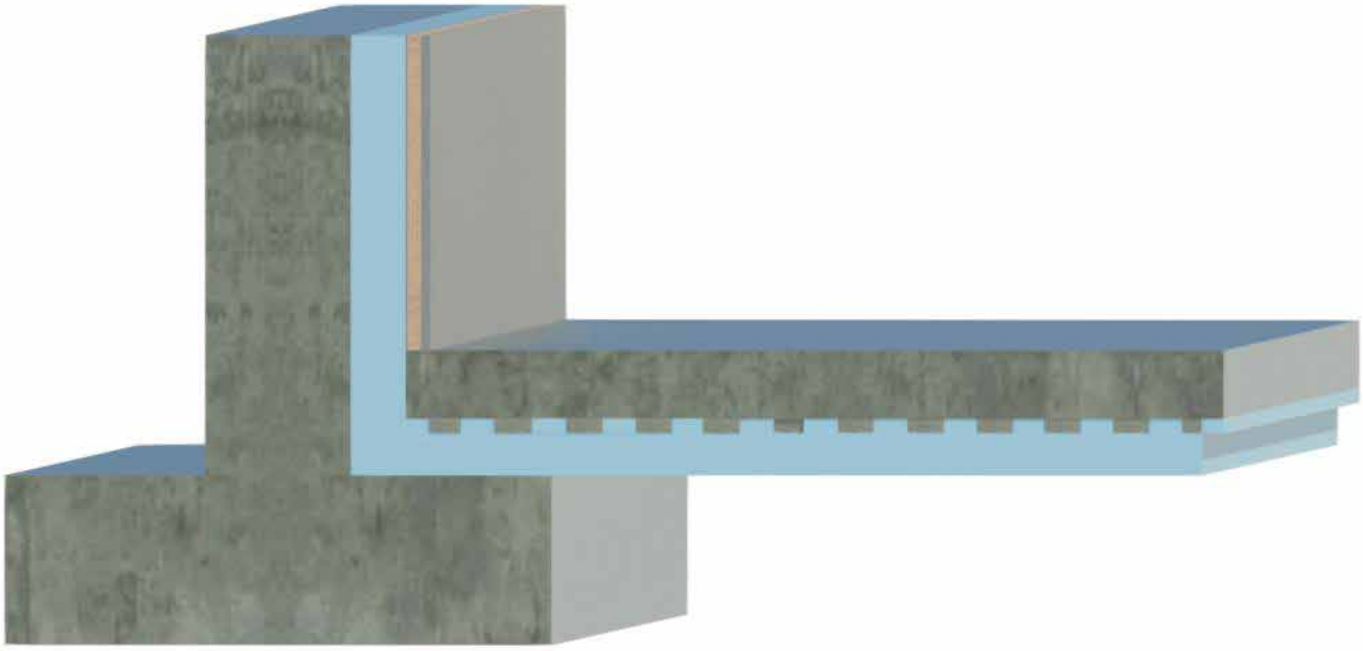


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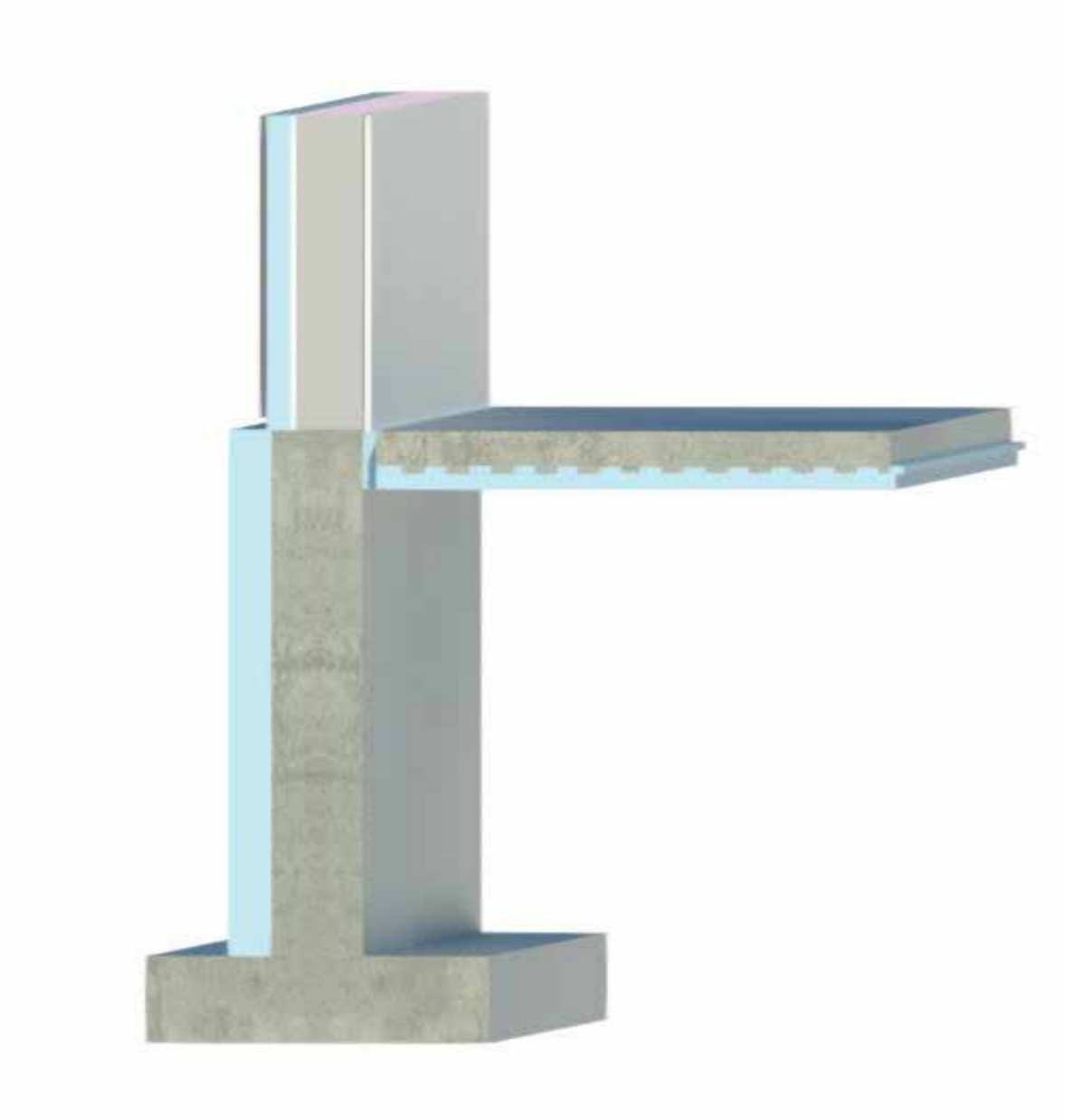
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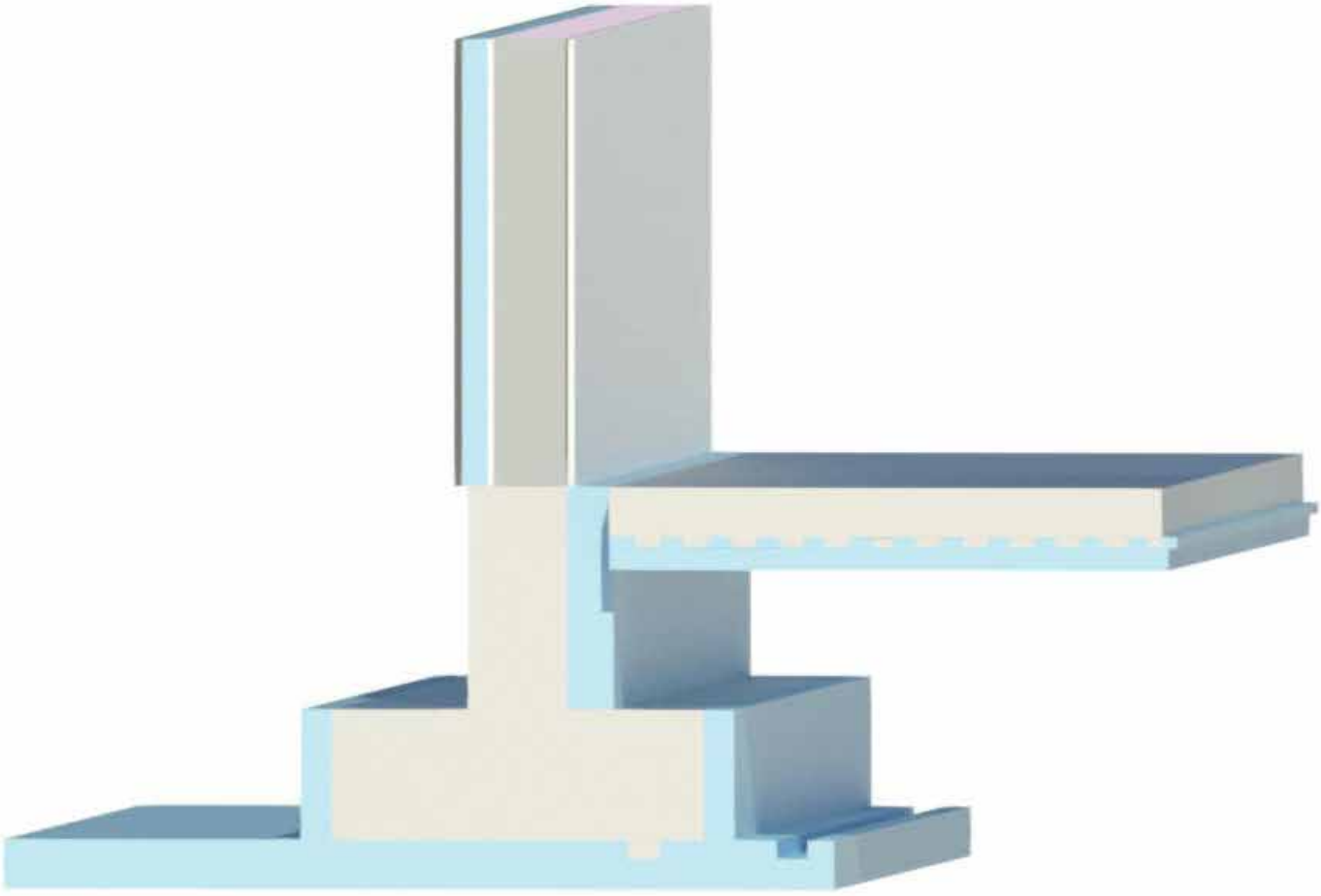
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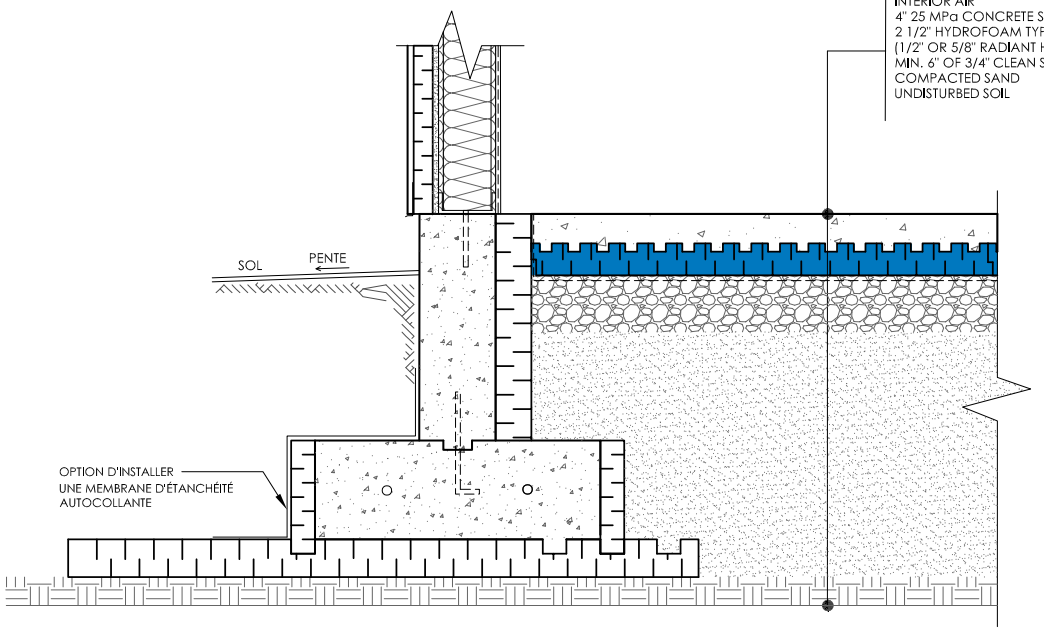
THE INFORMATION PROVIDED IN THIS DRAWING ILLUSTRATES A TYPICAL APPLICATION OF OUR PRODUCTS. IT REPRESENTS ONE CONSTRUCTION METHOD BASED ON ACCEPTED BUILDING PRACTICES AND IN COMPLIANCE WITH THE NATIONAL BUILDING CODE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THIS APPLICATION IS APPROPRIATE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

DESCRIPTION	WALL SECTION – FROST FOUNDATION WALL & SLAB-ON-GRADE
PRODUCT	HYDROFOAM
SCALE	3/4" = 1'-0"
DATE	07/07/2026
NO.	C.17

HYDROFOAM®

SLAB-ON-GRADE ASSEMBLY

INTERIOR AIR
4" 25 MPa CONCRETE SLAB WITH WELDED WIRE MESH
2 1/2" HYDROFOAM TYPE 2 RIGID INSULATION (R-10)
(1/2" OR 5/8" RADIANT HEATING TUBING)
MIN. 6" OF 3/4" CLEAN STONE
COMPACTED SAND
UNDISTURBED SOIL



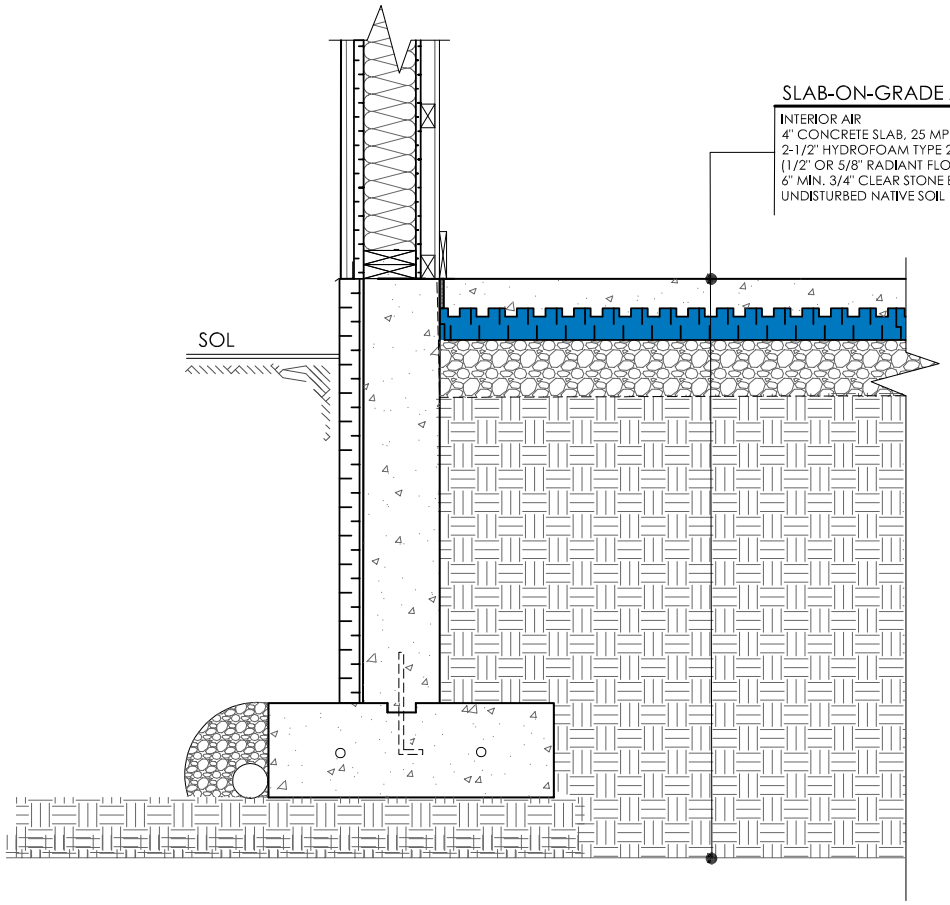
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DESCRIPTION	WALL SECTION – ICF FOOTING & SLAB-ON-GRADE	
PRODUCT	HYDROFOAM	
SCALE	3/4"=1'-0"	
DATE	07/07/2026	NO. C.18

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DESCRIPTION	WALL SECTION – FROST WALL ASSEMBLY SLAB-ON-GRADE ASSEMBLY
PRODUCT	HYDROFOAM
SCALE	3/4 "=1'-0"
DATE	07/07/2026
NO.	10.01

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DESCRIPTION	WALL SECTION – BASEMENT FLOOR SLAB ASSEMBLY
PRODUIT	HYDROFOAM
ÉCHELLE	3/4 "=1'-0"
DATE	07/07/2026
NO.	10.02

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DESCRIPTION	WALL SECTION – INSULATED CONCRETE FORM (ICF) BASEMENT FLOOR SLAB ASSEMBLY
PRODUIT	HYDROFOAM
ÉCHELLE	3/4 "=1'-0"
DATE	07/07/2026
NO.	10.03

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DESCRIPTION	ISOMAX FOUNDATION WALL SECTION BASEMENT FLOOR SLAB ASSEMBLY
PRODUCT	HYDROFOAM
SCALE	3/4 "=1'-0"
DATE	07/07/2026
NO.	10.04

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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.



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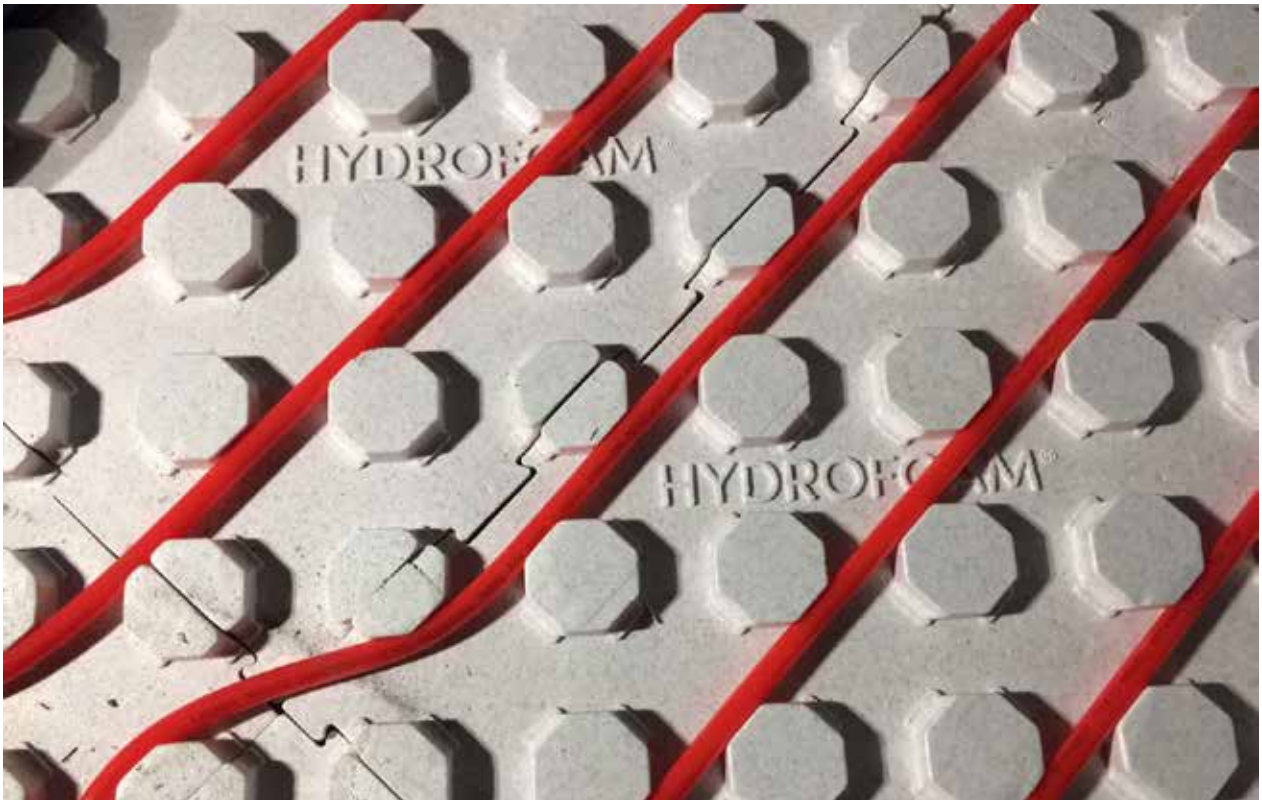




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