

FORTE

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Thermo Flo

Exterior Foundation Insulation and Drain Board

Thermo Flo is an exterior residential and commercial foundation wall insulation and drain board. When used with an approved below grade damp proofing system, it allows water to flow to the drainage system while providing additional thermal performance.

APPLICATIONS

Commercial Foundation Walls
Residential Foundation Walls

FEATURES

Octagonal drain pattern provides positive drainage to footer.

R 4 Per Inch Type II

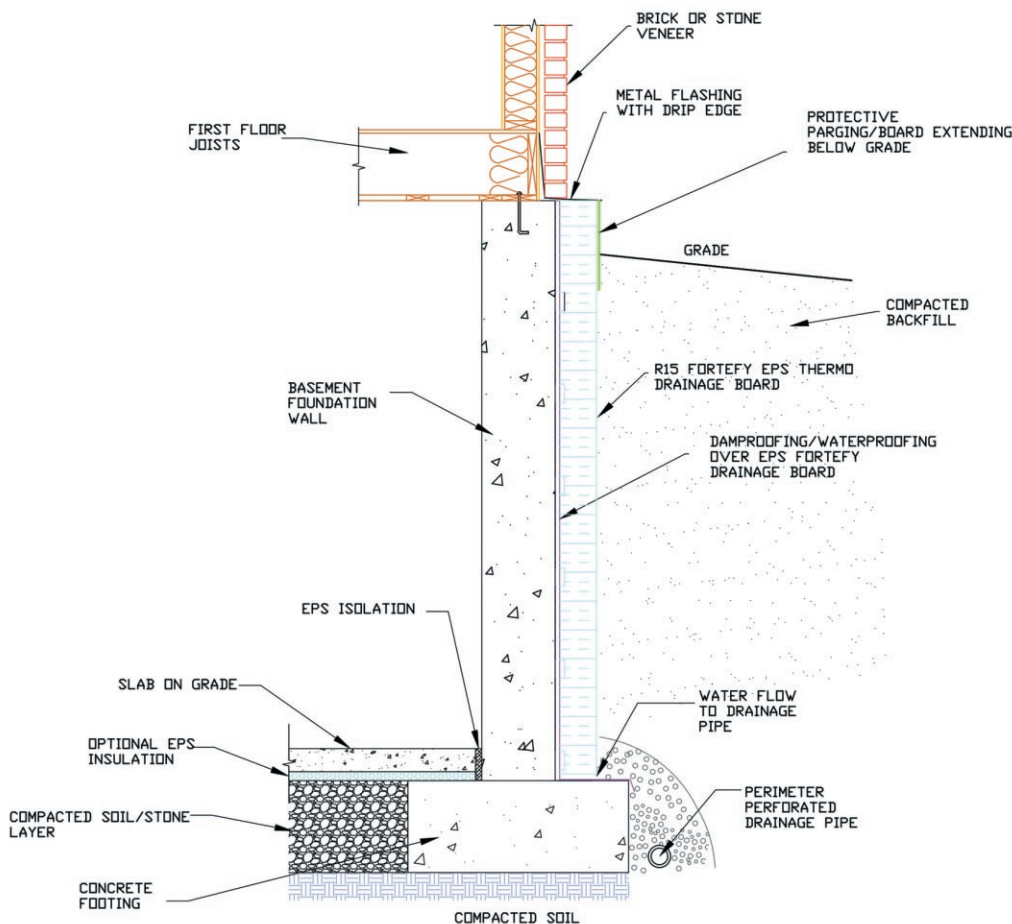
Retains Thermal Properties throughout Life Cycle

Protection for Damp Proofing Systems

Exterior Insulation helps to reduce the risk of cracking in the concrete wall

Meets CAN/ULC Type II

For more information on insulating your basement from the outside, please visit <http://www.nrcan.gc.ca/energy/efficiency/housing/home-improvements/keeping-the-heat-in/basement-insulation/15639>



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SPECIFICATIONS

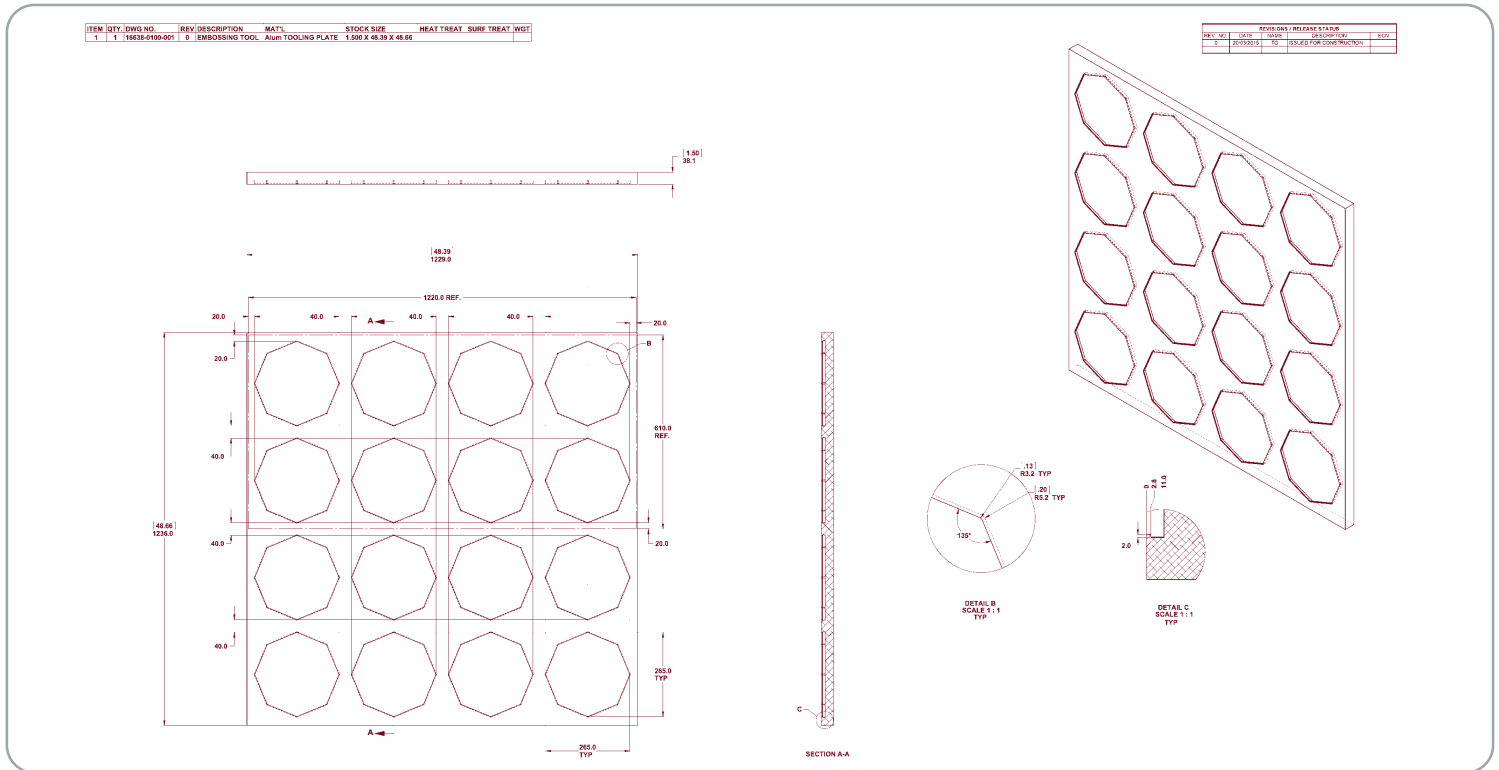
Standard sheets come in 4'x4' or 2'x4' with a butt edge. Manufactured as a Type I, Type II or Type III.

CANADIAN STANDARDS

Property*	Units	TYPE I	Type II	Type III	Test Method
Thermal Resistance (R-value) Minimum @ at 24C (75°F)	m ² •°C/ (W•25 mm)	0.65	0.70	0.74	--
	ft ² •hr•°F/(BTU•in)	3.75	4.04	4.27	
Water Vapour Permeance** Maximum	ng/(Pa•s•m ²)	300	200	130	ASTM C518
	perms	5.2	3.2	2.3	
Dimensional Stability Maximum	% linear change	1.5	1.5	1.5	ASTM D2126 7 days @ 70± 2°C
Flexural Strength Minimum	kPa	170	240	300	ASTM C203 Procedure B
	psi	25	35	44	
Water Absorption Maximum	% by volume	6.0	4.0	2.0	ASTM D2842
Compressive Strength Minimum @ 10% Deformation	kPa	70	110	140	ASTM D1621 Procedure A
	psi	10	16	20	
Limiting Oxygen Index Minimum	%	24	24	24	ASTM D2863

**The test methods used to determine the above material properties provide a means of comparing different cellular plastic thermal insulations. They are intended for use in specifications, product evaluations and quality control. They are not intended to predict end-use product performance.

*Values quoted are maximum values for 25 mm (1 inch) thick samples with natural skins intact. Lower values will result for thicker materials.



INSTALLATION INSTRUCTIONS

Damp proof the foundation wall as per building code. Place drainage tile at the footer as per building code requirements and cover with granular. Starting from a corner and from the bottom of the wall, apply Thermo Flo using an adhesive compatible with expandable polystyrene insulation. Apply quarter inch to half inch bead on each raised octagon in a circular pattern. The drain pattern side to be placed against the damp proof system. Install the board at minimum 1/4 inch (13mm) above the footings to allow drainage at the bottom of the wall. Add additional granular to cover the bottom of the board up to 4 inches (100 mm) to prevent backfill from filling in the drain line at the footer. Backfill the trench to grade. Exposed EPS above grade to be parged or covered with a similar finish, down to 12 inches (300 mm) below grade. Ensure that finished grading is sloped away from the wall.



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