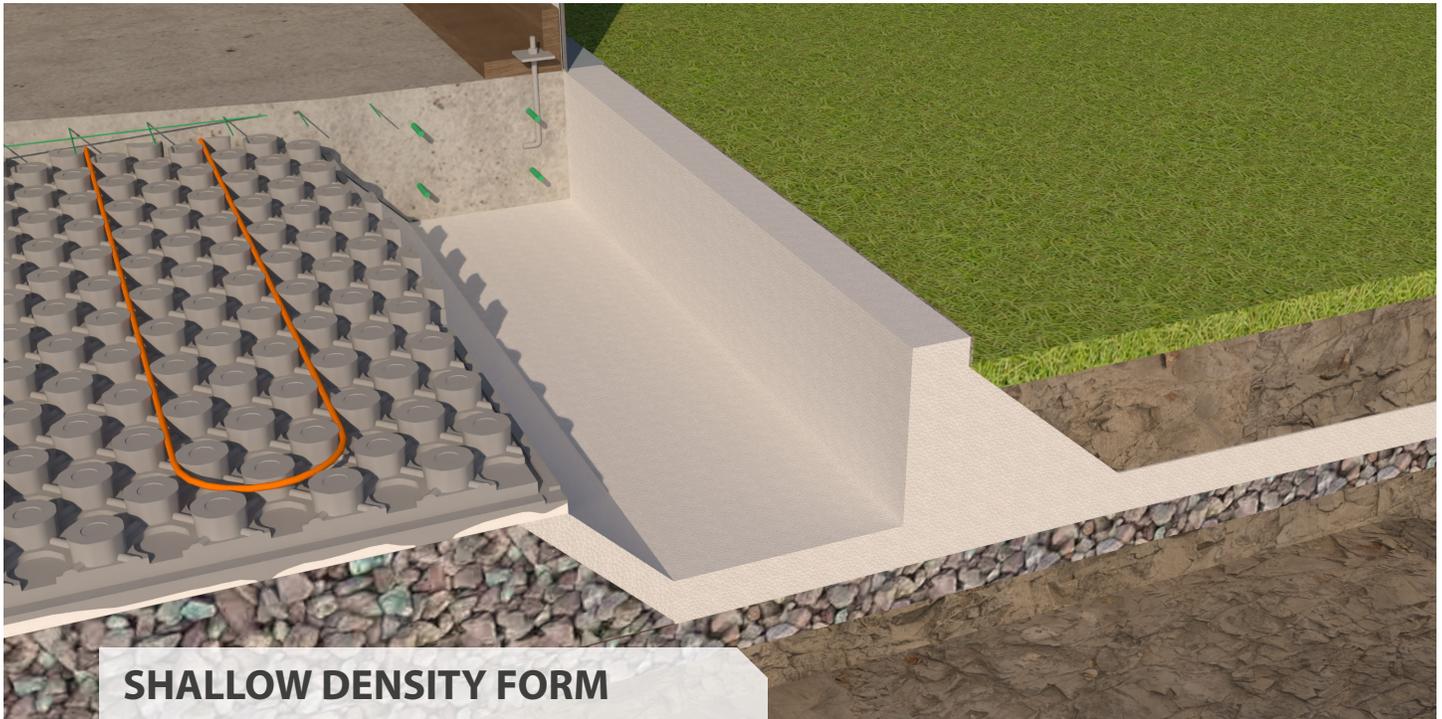


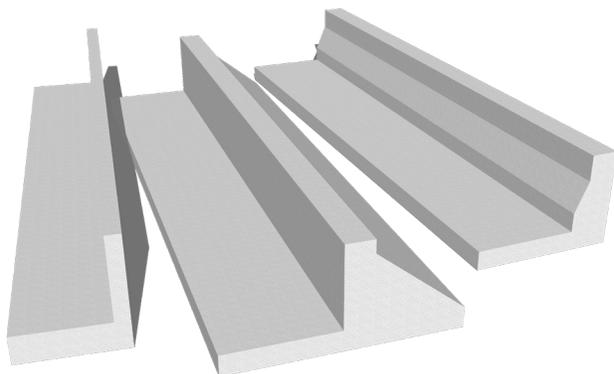
Enviroslab



SHALLOW DENSITY FORM

Enviroslab is a non-structural, rigid insulation form made from closed cell Expanded Polystyrene (EPS) offering cost-effective performance. Designed to be installed as pre-cut insulated forms for shallow frost walls, reduce thermal bridging, and directly improve building envelope performance.

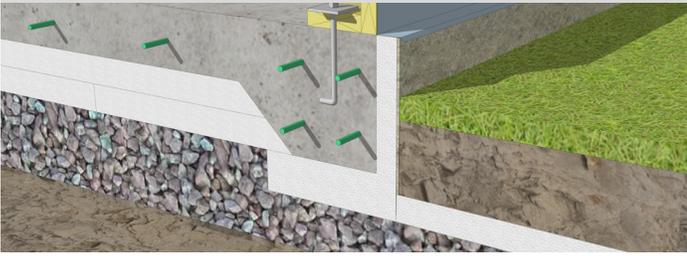
Enviroslab's exceptionally low, long-term, in-service water absorption properties allow it to maintain its specified thermal performance and durability when installed for slab on grade or below grade applications.



Alleguard Advantage

- The system combines forming, insulating, and backfilling into a single process, reducing construction time from days to hours
- A cost-effective solution by minimizing labor hours and waste
- Enables there to be safer job sites, and simplifies work by eliminating most traditional forming and bracing components
- The form provides a high R-value, critical for North American winters to prevent frost damage and reduce heating costs
- Forms are simple and easy to use and require only basic tools, and allow for fast crew training.
- Enviroslab is compatible with radiant floor heating systems.

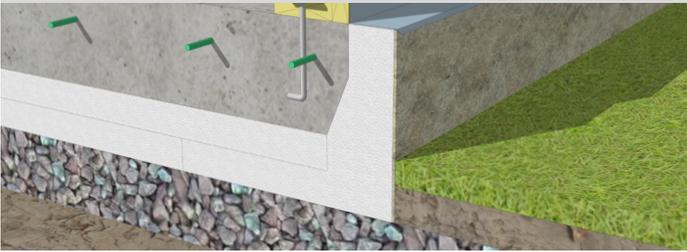
Straight Elbow Cut



Exterior Angled Elbow Cut



Interior Angled Elbow Cut



Availability

EnviroSlab is offered in three different shapes, and can be custom cut as per specified project requirements. Dimensions and/or cut section drawings can be submitted for quoting, production, and delivery on site.

The standard length of EnviroSlab is 8' (2.4m).

Physical Properties Table

	Standard	Units	ES20 (HD)	ES25 (HD)	ES30 (HD)	ES40 (HD)
Specification for Rigid Polystyrene Insulation	ASTM C578		Type II	Type IX	Type IX	Type XIV
	CAN/ULC-S701.1		Type 2	Type 3	Type 3	Type 3
Thermal Resistance ¹	ASTM C518 @ 75°F (24°C)	F.ft ² .hr/Btu (m ² K/W)	4.2 (0.74)	4.3 (0.76)	4.4 (0.77)	4.4 (0.77)
Compressive Strength	ASTM D1621 @ 10% Strain	psi (kPa)	20 (138)	25 (172)	30 (207)	40 (276)
Water Absorption (Max.)	ASTM D2842	%	3.0	2.0	2.0	2.0
Water Vapor Permeance (Max.) ¹	ASTM E96	US perms (ng/Pa.s.m ²)	3.50 (200)	2.27 (130)	2.27 (130)	2.27 (130)
Flexural Strength (Min.)	ASTM C203	psi (kPa)	35 (242)	50 (345)	50 (345)	60 (414)
Dimensional Stability (Max.)	ASTM D2126	%	1.5	1.5	1.5	1.5
Limiting Oxygen Index (Min.)	ASTM D2863	%	24	24	24	24
Density	ASTM D1622	lb/ft ³ (kg/m ³)	1.50 (24)	1.80 (29)	2.00 (32)	2.50 (40)
Surface Burning Characteristics	ASTM E84/UL-723 ²					
	Flame Spread Index (FSI)		≤25	≤25	≤25	
	Smoke Developed Index (SDI)		≤450	≤450	≤450	
	CAN/ULC-S102.2 ²					
Flame Spread Index (FSI)		≤210	≤210	≤210		
Smoke Developed Index (SDI)		≥500	≥500	≥500		

¹ Measurement per 1" (25mm) of thickness

² For thicknesses up to 4" or 100mm