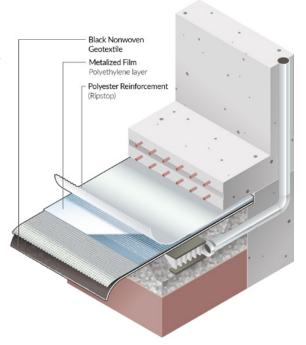
MonoShield™ Technical Data Sheet

The MonoShield System is a 30-mil composite geomembrane comprised of flexible chemically resistant metalized film laminated to a geotextile, a copolymer polyethylene and a tear resistant PET reinforcement grid structure. The combination of the chemically resistant metalized film thermally bonded to polyethylene and the durable geotextile allows it to act as a vapor barrier system for low-level contaminated sites. It is designed and installed over the substrate with the geotextile fabric facing down and metallic side facing up to effectively mitigate vapor intrusion.

Application Details:

- MonoBase is seamed together with a 6" overlap and bonded using Land Science's MonoCore at 60-mil thickness; applying the core to both above and below the barrier overlaps.
- MonoBase is overlapped at all perimeters a minimum of 3" onto the perimeter foundation with adherence using the Nitrile Core.
- All penetrations are wrapped using the MonoBase, zip tied and MonoCore is sprayed to seal each penetration.
- Smoke testing can be performed on the MonoShield System and is recommended to ensure the system is free of leaks.





General Properties					
Specifications	Specified Value	Tolerance	Typical Value	Test Standard	
Product Thickness	0.80 mm	+/- 25%	0.790 mm	EN1849-2	
Layer Thickness	0.570 mm	+/- 10%	0.574 mm	MFX Internal Method 20	
Weight Per Square Meter	430 g/m ²	+/- 10% rel.	467 g/m²	EN1849-2	
Tensile Strength	>810 N/50mm		870 N/50 mm*	EN12311-1	
	>780 N/50mm		1077 N/50 mm*		
Elongation at Break	20%	+/- 5	22%	EN12311-1	
	12%	+/- 5	15%		
Sd-Value	> 150 m		180 m	EN1931	
Straightness	Pass		Pass	EN1848-2	
Dimensional Stability	Max. 2.0%		Less than 1.0%	EN1107-2	
Visible Defects	No Visible Defects		No Visible Defects	EN1850-2	





Specific Configu	Specific Configuration					
Specifications	Specified Value	Tolerance	Typical Value	Test Standard		
Width	300.5 cm	+/- 1%	301 cm	EN1848-2		
Roll Length	50 m	-0.0%; +1.0% rel.		EN1848-2		
Weight Per Roll	64.7 kg	+/-6% rel.	66 kg.			
Colors (shade)	metallic grey/black		Pantone 7544C/2479 CP			
Logo Film	No		Not Possible			
Winding	on core, wrapped		d50 mm cardboard tube			
Packaging	horizontal, wood cages		20 rolls/pal			

Special Propertie	Special Properties				
Specifications	Specified Value	Typical Value	Test Standard		
Fire Properties	No demand. class F	Class F	EN13501-1		
Temperature Range	-40° C to +80° C				
Perforation Resistance	High but not quantified	NPD			
UV Stability	Min. 3 months kly 170/y	> 6 Months	Free Outdoor Exposure		
Light Transmission	Not specified, but low	<5%	Internal Monarflex test		
Water Column Tightness	Min. 2m WC	> 5 m WC	EN1928 method B (pressure)		

