



A Cost-Effective Solution To Address Radon

MonoShield offers high constructability, durability, and chemical resistance, providing developers with a viable long-term solution for reducing liability while protecting human health at a competitive cost.

Overview

With proven chemical resistance, a highly durable base layer, and spray-applied nitrile-advanced asphalt latex seams, MonoShield[®] provides a superior alternative to standard radon mitigation venting systems.



Increased Performance at a Lower Cost

Typically, radon mitigation systems are either (1) installed without a vapor barrier or (2) installed with thin-mil plastic barriers that are taped at the seams, penetrations, and perimeters. Vapor barrier installations utilizing taped seams contribute to extended construction times and sub-optimal performance. MonoShield applications use a spray-applied nitrile-advanced asphalt latex to seal seams, eliminating bottlenecks in production and installation time. By including MonoShield into your radon mitigation system design, developers and environmental professionals can provide much higher protection for the building(s) at an overall lower installation cost.



Proven Chemical Resistance

A third-party independent laboratory has tested MonoShield against some of the highest risk constituents for vapor intrusion diffusion. The results of these tests prove the overall effectiveness of the barrier at preventing vapors from entering building structures.^[1]



5-Year Material Warranty

MonoShield comes with up to a 5-year material warranty. Installation is performed by our network of certified applicators, which results in a high-quality, vapor barrier installation. MonoShield can be installed in many different types of buildings. Contact us today, and one of Land Science's technical sales managers will assist you in evaluation and selection of your MonoShield radon mitigation system.

Technology

MonoShield is a unique vapor barrier system composed of an innovative metallized film that sets the standard for preventing diffusion and permeation of chemical vapors and is sealed with a nitrile-advanced asphalt latex that ensures a seal far more effective and easier to apply than tape-based or heat-welded systems, MonoShield offers the best of both worlds, providing developers with a viable long-term solution for reducing liability and protecting human health at a competitive cost.



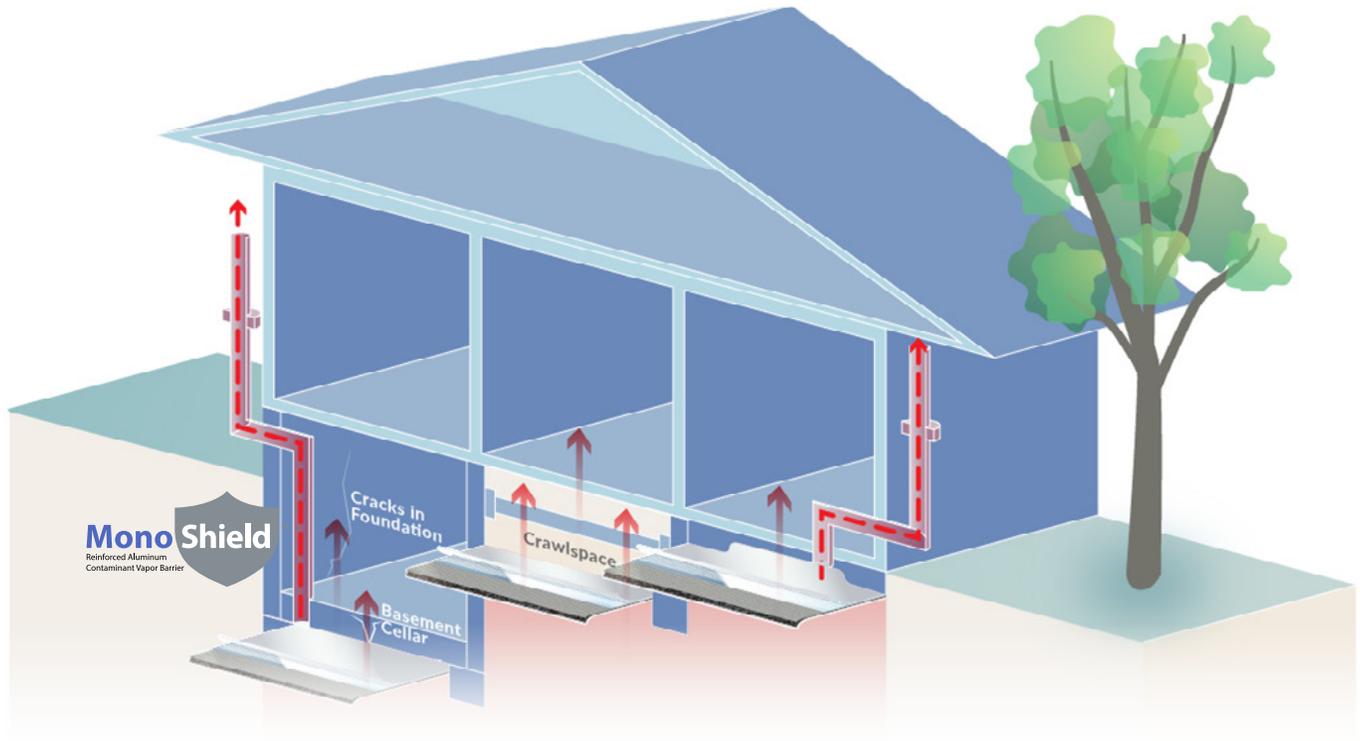


Illustration provides a visual representation of a MonoShield barrier system in a residential application

MonoShield provides a chemically resistant barrier with sprayed seams that can significantly improve the influence of a standard radon mitigation venting systems. MonoShield's base layer, MonoBase, is comprised of multiple protective layers that are thermally bonded, polyethylene (PE), a metallized film and geotextile fabric. PE has been tested against radon

and its diffusivity, and has shown to have very low diffusion rates. By adding the metallized film, MonoShield provides an even greater chemical resistance, which has been demonstrated by a third-party independent laboratory. The geotextile fabric provides overall protection and added strength to the barrier.

Nitrile-Advanced Asphalt Latex Seams vs. Taped Seams



Example of Nitrile-Advanced Asphalt Latex Seams

MonoShield applications utilize a spray-applied nitrile-advanced asphalt latex to seal seams and penetrations, eliminating bottlenecks in performance and installation time.



Example of Taped Seams

Traditional vapor barrier installations require taped seams which contributes to long construction times and uncertainty in performance.



Are you planning a vapor intrusion mitigation project?
Contact us today for a free estimate.

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