

Vapor-Permeable Air Barrier Systems

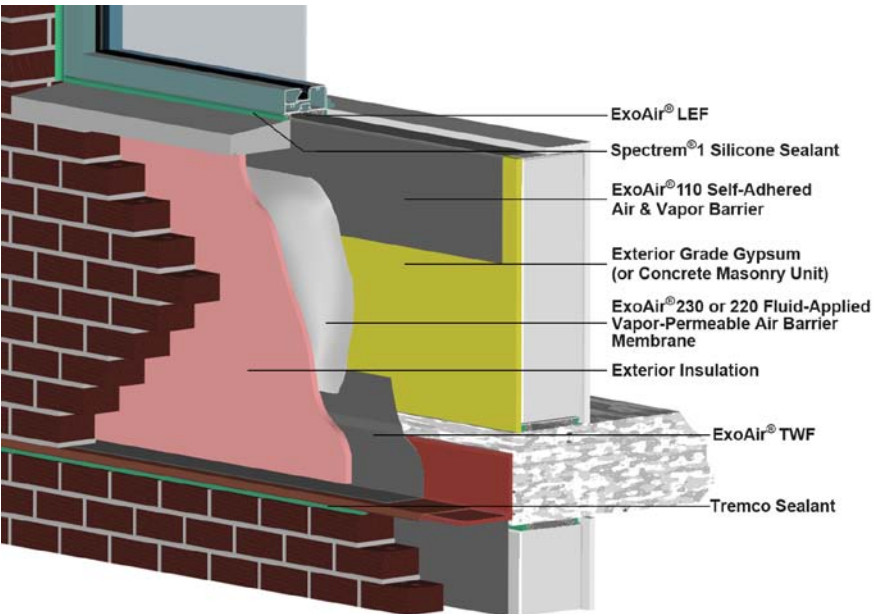


ExoAir® Fluid-Applied Vapor-Permeable Air Barrier Systems: A Completely Compatible, Continuous, Comprehensive System

Because climates differ throughout our geography, wall systems have different requirements when it comes to controlling air flow into and through a building for moisture protection and energy efficiency. Improperly controlled air flow is a common cause of damaging condensation, moisture accumulation and energy loss in exterior wall assemblies.

The general rule is that air moves from the warm side to the cold side. Where seasonal temperatures experience drastic changes from very cold, winter months to very hot, summer months and where seasonal moisture variation is high, a vapor-permeable system will seal the walls from air infiltration and exfiltration while allowing vapor molecules to pass through so they do not get trapped within the wall.

This allows diffusion to the interior or exterior so any moisture in the cavity can dry in either direction. As a result, it can be placed anywhere in the wall assembly. Though a vapor-permeable air barrier system may be used in many cases in the hope of ensuring success of the job, a poorly constructed system will not compensate for moisture transported through a breach. Wall components may not be able to dry out quickly enough to prevent damage from moisture accumulating within the wall.



Drying of the wall cavity should be promoted in one or both directions. Vapor-permeable air barriers allow diffusion to the interior or exterior, promoting drying of the wall cavity in either direction.

Vapor-Permeable Air Barrier Systems

ExoAir® Fluid-Applied Vapor-Permeable Air Barrier Systems

ExoAir Fluid-Applied Vapor-Permeable Air Barrier Systems are designed to seal walls from air infiltration and exfiltration, while allowing vapor molecules to pass through so they do not get trapped within the wall. Trapped moisture vapor could cause condensation to occur within the wall cavity which can lead to structural deterioration and shortened structure life.

Membranes:

ExoAir Fluid-Applied Vapor-Permeable Air Barrier Membranes serve as the foundation for the system, providing:

- **The option to roll or spray**, affording increased flexibility during installation to accommodate the unique circumstances of every project.
- An **environmentally responsible, water-based formulation** that can be applied to damp or dry surfaces without the need for a primer.
- A **monolithic, seamless membrane** which ensures continuous integrity without gaps.
- A **fully adhered membrane** capable of resisting wind cycling.

ExoAir 220 Fluid-Applied Vapor-Permeable Air Barrier Membrane is a monolithic elastomeric membrane for use on exterior above-grade wall assemblies including sheathing boards, concrete block, poured concrete or wood substrates to prevent air infiltration/exfiltration while remaining permeable to the passage of water vapor.

ExoAir 230 Fluid-Applied Vapor-Permeable, UV-Resistant Air Barrier Membrane is formulated to include UV resistance, providing the flexibility to install rainscreen systems with open joints or to allow the membrane to be exposed during the construction process. It withstands temperatures up to 240° F (115° C) and contributes to the protection of life safety based on ratings during ASTM E-84 testing for flame spread and smoke development along with other components it may be connected to including Proglaze ETA connections and sealants.

Detailing and Connections:

ExoAir 110 Self-Adhered Air & Vapor Membrane may be used as a transition membrane into door and window openings

ExoAir TWF (Thru-Wall Flashing) Membrane is a 40-mil composite sheet used as a wall flashing or to seal around penetrations. It consists of a SBS-rubberized asphalt sheet with a HDPE backing and siliconized release liner.

ExoAir Primer is formulated for use with ExoAir 110 and ExoAir TWF.

ExoAir Termination Mastic is a mastic used to seal joints in the ExoAir Air Barrier System.

Proglaze® ETA Connections is a 40 durometer dense translucent silicone sheet used to bridge joints in building construction.

Proglaze® ETA is a patent-pending engineered transition assembly that simplifies transitions from the air barrier system to the window or curtain wall system, providing foolproof continuity and proven durability.

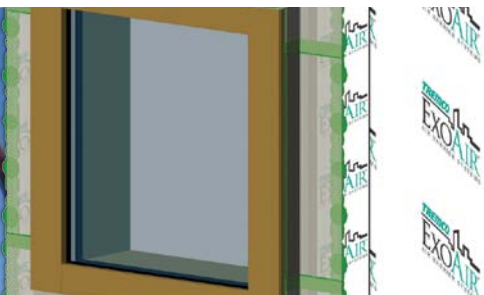
Compatible sealants, including Spectrem® 1 Silicone Sealant, Tremflex® 834 General Purpose Sealant and ExoAir LEF Low Expanding Foam. Contact your local sales representative or refer to application instructions for specific details.



ExoAir 220



ExoAir 230



Proglaze ETA