

Proglaze ETA provides perfect seal

By Peter Poirier

COMMERCIAL, RETAIL, FABRICATION : HARDWARE



Proper control of air and moisture management through and within a building contributes to sustainability. As energy and many of the earth's resources become limited, building for sustainability becomes more important than ever before. State and municipal governments are jumping on the "building for sustainability" bandwagon and are mandating building codes to require the use of air barriers on commercial buildings. When it comes to preventing air and moisture infiltration/exfiltration, today's tie-ins or transitions from air barriers to window or curtain wall systems are the root of many problems. Most often, air and moisture infiltration/exfiltration is due to leaks at these critical transition areas. Coordination of

installation between trades to install the tie-ins between the air barrier and the window or curtain wall system also can lead to workmanship errors and additional problems.

Once a building's integrity is compromised and moisture enters, it can lead to the deterioration of envelope components, rusting and degradation of structural supports, as well as damage to exterior finishes. All of this is costly to the building owner and might necessitate removal of the exterior cladding to find and correct the leak. In addition, up to 40 percent of a building's energy consumption for heating or cooling is attributable to air leakage.

An engineered solution

Proglaze ETA Engineered Transition Assembly from Tremco simplifies the installation of transitions from window or curtain wall systems to wall assemblies. The assembly comprises pre-engineered, finished aluminum and silicone materials assembled and mechanically attached to the window or wall assembly to ensure a durable, visually inspected connection and seal.

The patent-pending product provides a continuous, compatible seal, and its flexible design withstands dynamic movement and wind-loading stresses without pulling apart. It spans and seals across irregular window geometries without compromising performance. The assembly eliminates delays in waiting for another trade to return to the job to complete the tie-in installation and increased costs from the contractor making multiple trips. In addition, workmanship errors resulting from detailing and involvement by a variety of trades is no longer an issue.

Proglaze ETA consists of three separate components: extruded aluminum adaptor, silicone rubber extrusion, and silicone rubber corners. An additional component is Spectrem 1 Silicone Sealant. Certain window and/or wall systems might require custom shapes or modifications to the silicone rubber extrusions or silicone rubber corners. Tremco's design engineering team are available to work with architects, window or wall manufacturers and glaziers to modify components for customized solutions appropriate for the site conditions.

Tremco developed and independently tested Proglaze ETA to ensure long-term air and moisture protection when used in conjunction with ExoAir 110 and 110LT (Low Temperature) Self-Adhered Air & Vapor Barrier Membranes and ExoAir TWF Self-Adhered Thru-Wall Flashing Membrane at transitions into door and window openings or curtain wall systems.

Our world is rapidly changing, and as a result, building requirements are changing too. With the right building envelope solutions like Proglaze ETA, improved energy-efficiency and increased longevity can be achieved.

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