



Residential Window-to-Wall Applications



A fully integrated, thermally efficient and weathertight structure enhances a home's long-term durability and performance. High-performance windows are only as good as the system that seals them against the weather. Secure seals at the window-to-wall connection are particularly critical. There, a poor seal at the window-to-wall connection can lead to heat loss and higher HVAC costs, and the gaps that allow air and water infiltration create occupant discomfort, promote mold or mildew growth and ultimately result in deterioration of the structure.

Tremco's T3 Building Solutions provide air and weathertight seals along with thermal resistance to minimize these threats, while allowing the window installer a quick and easy installation process, yielding labor savings and speeding construction schedules. T3 brings peace of mind to the architect/design team, construction crew and home owner.

VERSATILITY FOR A VARIETY OF WINDOW-TO-WALL CONNECTIONS

T3 is a system of compatible, high-performance products, including pre-compressed, self-expanding, flexible, polyurethane foam tapes; breathable flashing materials; mechanically fastened, engineered transition assemblies; and single-component, gun-grade polyurethane foams.

The right combination of products for a particular structure depends not only on window type and project deliverables but also on construction method. T3 self-expanding foam tapes, for example, require compression in order to seal the gap, so they are ideal solutions for stud wall and window wall construction. In designs where compression is not possible, other T3 product combinations are available to meet or even exceed performance requirements.



Cavity Wall

For cavity wall applications with punched openings, where compression is not possible, T3 Building Solutions utilize a three-component approach to ensure the window-to-wall joints are airtight, thermally efficient and vapor-permeable. An example for sealing this transition would employ **ExoAir® Eco** for the exterior, weathertight seal, **TremGlaze® Flex LEF** foam for the thermal insulation in the cavity and **ExoAir® Duo Membrane** as the internal airtight seal to create a vapor drive to the exterior of the building.

Stud Wall

Since compression may be achieved in stud wall construction, **ExoAir® Trio** is an ideal three-in-one solution to seal out weather, thermally insulate and provide a vapor barrier to prevent unwanted moisture at the dry side of the wall assembly. **ExoAir® Trio** also allows for quick and easy installation in most weather conditions and provides visual evidence that a secure seal has been achieved.



Window Wall

Because the window wall system spans the opening between floors, a sustainable weatherseal must be incorporated into the floor slabs by both the base and ceiling track members. One T3 Solution for window wall construction combines **ExoAir® Eco** for the exterior weather barrier, **ExoAir® Duo** for the vapor barrier and **TremGlaze® Flex LEF** as the thermal break to prevent heat loss through the wall and resist condensation on the interior of the mullions, which can result in damage to adjacent walls.



Contact Us ■ These are just some of the combinations that can be utilized to ensure a proper seal from window to wall in various applications. Contact either your local Tremco Sales or Technical Services Representative to review your details and receive the best solution for your project requirements.

Connectivity Options

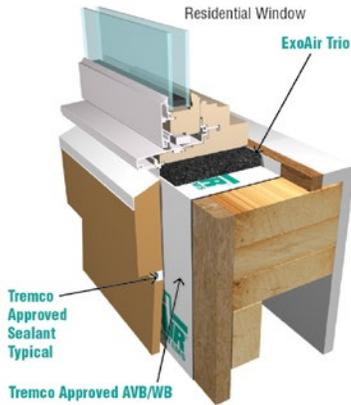
T3 Solutions address virtually any window-to-wall connectivity challenge. Below are some of the solutions available for typical residential window installations.

TREMCO TECHNICAL SUPPORT

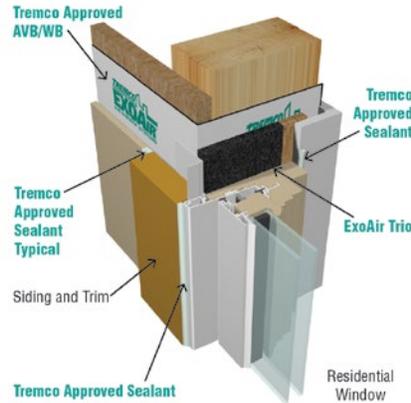
At Tremco, we understand the importance of evaluating each project, including overall building design, construction methods, window types, budget and other important deliverables expected by the owner, contractor and architect. Our knowledgeable sales and technical services representatives are available in every major market across the country to assist with product selection, specification development and review, detail drawings, on-site testing and installation advice.

TYPICAL RESIDENTIAL STUDWALL INSTALLATION WITH SIDING USING EXOAIR® TRIO

SILL DETAIL



JAMB DETAIL



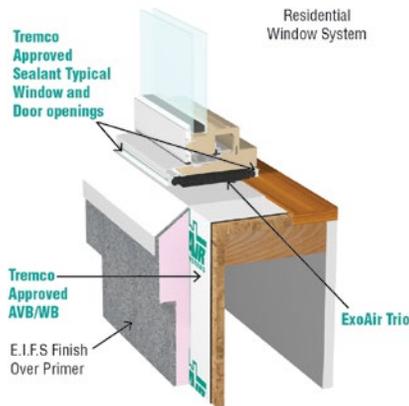
HEAD DETAIL



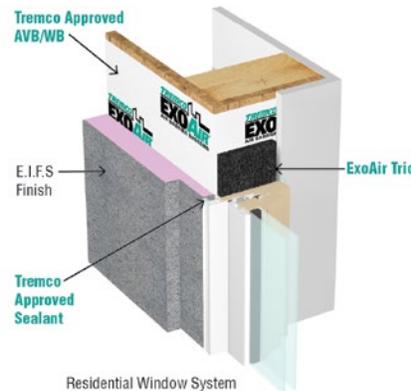
BENEFITS: ExoAir® Trio is an integral vapor retarder that allows the system to dry to the outside. ExoAir® Trio combines air, water and thermal protection into one material.

TYPICAL RESIDENTIAL STUDWALL INSTALLATION WITH EIFS USING EXOAIR® TRIO

SILL DETAIL



JAMB DETAIL



HEAD DETAIL



BENEFITS: ExoAir® Trio is an integral vapor retarder that allows the system to dry to the outside. ExoAir® Trio combines air, water and thermal protection into one material.

Consult our website at www.tremcosealants.com for the most up-to-date T3 Solutions product data sheets and installation instructions.