

WALLTITE® US Spray Polyurethane Foam ENERSHIELD®-I Air/Water-Resistive Barrier Systems Technical Bulletin



The combination of WALLTITE® US spray polyurethane foam and ENERSHIELD®-I fluid applied air/water-resistive barrier products from BASF can create wall assemblies with a number of advantages for design professionals and contractors.

Both materials are capable of performing more than one role in a wall system. WALLTITE US spray polyurethane foam is a highly effective insulation material that can be designed to act as an air barrier. ENERSHIELD-I is a Class 1 Vapor Retarder and air barrier material that can be used to create a code-compliant flexible flashing material.

Possibilities start with compatibility

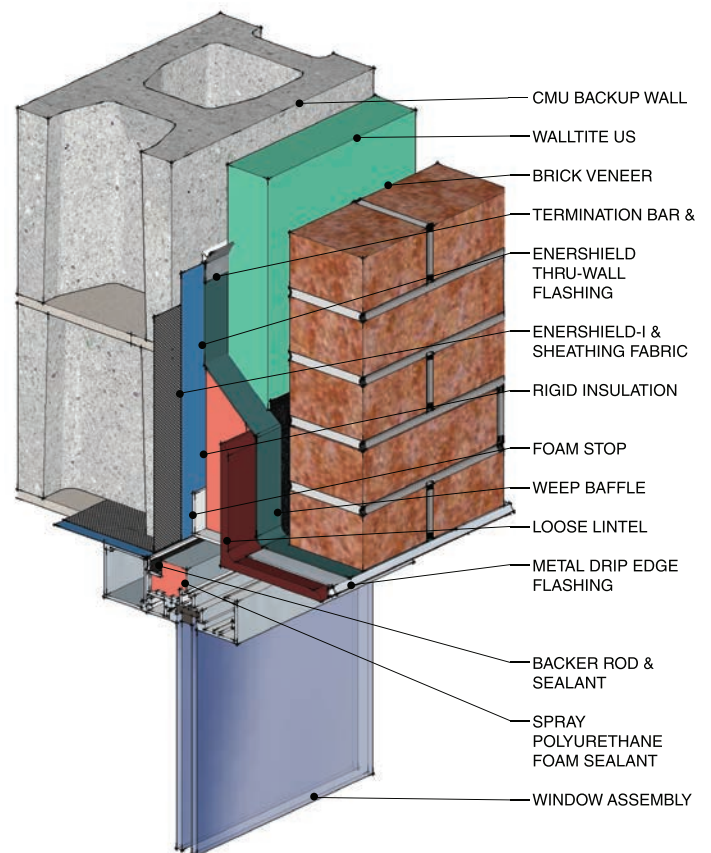
WALLTITE US and ENERSHIELD-I are mutually compatible products that offer long-term durability.

The Silica Fortified Rubber chemistry that ENERSHIELD-I is based on creates a surface designed to facilitate bonding with WALLTITE US. In addition to chemical compatibility, the surface of ENERSHIELD-I is textured to enhance its ability to form a strong and durable bond.

High heat resistance of ENERSHIELD-I also plays a role. When tested according to ASTM D5147, ENERSHIELD-I demonstrated a Compound Stability of 350°F, easily exceeding products typically used as flexible flashing materials. The high temperature performance of Enershield I, allows it to withstand both the ambient temps and exothermic cure of freshly applied Walltite US, creating a strong bond.

ENERSHIELD-I also forms a strong and stable bond when applied to WALLTITE US, facilitating application of a Class 1 Vapor Retarder membrane onto WALLTITE US spray polyurethane foam.

As always, verify assembly compliance to all state and local codes and sound building science principles.



Flashing Rough Openings with ENERSHIELD

ENERSHIELD-I products can be used to flash rough openings on framed construction or concrete masonry substrates. As a fluid-applied material, ENERSHIELD-I easily conforms with complex wall shapes, and eliminates the need for priming, post-rolling and mastic treatments.

WALLTITE US spray polyurethane foam subsequently applied to cured ENERSHIELD-I flashing bonds directly to ENERSHIELD-I, allowing the applicator to create an air tight, watertight seal.

Validated Performance

Both WALLTITE US spray polyurethane foam and ENERSHIELD-I are recognized by the Air Barrier Association of America, and can be used on projects that specify compliance with the ABAA Quality Assurance Program. Both products are also recognized in Evaluation Service Reports, ESR-2642 (Walltite US) and ESR-3310 (Enershield I) for compliance with IBC, IRC and IECC.

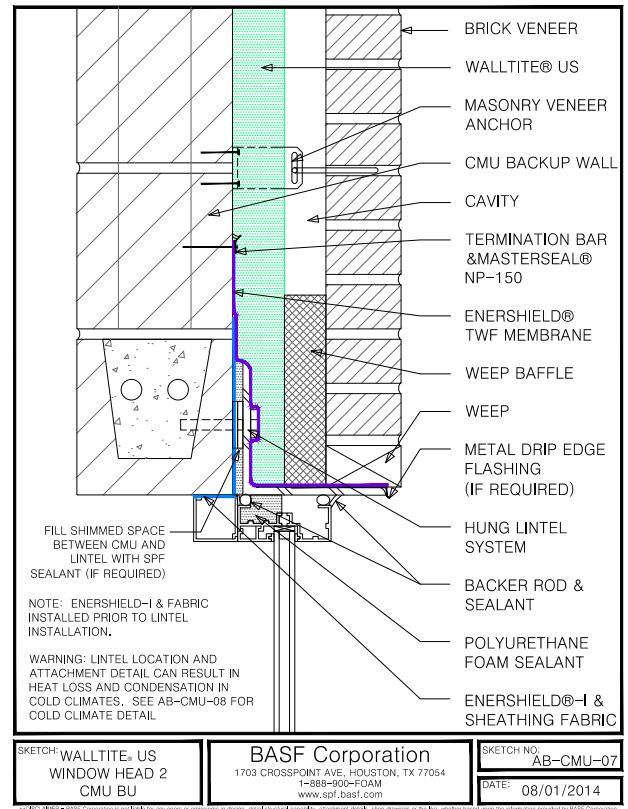
Single Source Warranty

The combination of WALLTITE US and ENERSHIELD-I qualifies for an extended single-source warranty from BASF, The Chemical Company.

Additional BASF products used in the wall assembly may be covered by the warranty.

Related Documents

Please see www.spf.basf.com and www.enershield.basf.com for additional information.



WALLTITE®

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