



# Product Evaluation

EC61| 0915

Engineering Services Program

*The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

*For more information, contact TDI Engineering Services Program at (800) 248-6032.*

**Evaluation ID:** EC-61

**Effective Date:** September 1, 2015

**Re-evaluation Date:** September 2019

**Product Name:** Senergy® Senerflex® Channeled Adhesive Design Exterior Insulation and Finish System

**Manufacturer:** BASF Corporation  
3550 St. Johns Bluff Road South  
Jacksonville, FL 32224  
(904) 996-6000  
[www.wallsystems.basf.com](http://www.wallsystems.basf.com)

## **General Description:**

The Senergy® Senerflex® Channeled Adhesive Design is a water-drainage Class PB exterior insulation and finish system (EIFS) that is used as an exterior wall finish on buildings. The wall system is comprised of reinforced air/water-resistive barrier, adhesive, EPS insulation board, reinforced base coat, and a 100 percent acrylic polymer finish. The finish is available in different colors and textures.

## **Limitations:**

**Wall Framing:** Exterior wall framing and exterior wall construction must be as specified in the assemblies listed in this evaluation report.

**Design Wind Pressures:** The design wind pressures must be as specified in the assemblies listed in this evaluation report.

**Lateral Resistance:** The Senergy® Senerflex® Channeled Adhesive Design wall system must not be used as wall bracing or as shearwalls.

**Insulation Boards:**

- The EPS boards size is limited to 2' x 4'. The required minimum thickness must be as specified in the assemblies in this evaluation report.
- Insulation boards must be a single piece around corners of penetrations.
- Stagger joints in a running bond pattern offset a minimum of 24".
- Offset from sheathing joints by a minimum of 16". Offset from corners of doors, windows, and other penetrations by a minimum of 4".
- Channels in the insulation boards and/or channels of adhesive on the back of the insulation boards must run in vertical patterns.

**Reinforce Base Coat:**

- Flexguard 4 reinforcing mesh / Intermediate 6 / Intermediate 12 must overlap a minimum of 2-1/2".
- Strong 15 / Hi-Impact 20 mesh must not overlap. Butt edges together. After the Strong 15 / Hi-Impact 20 mesh are embedded in the base coat, a second layer of Flexguard 4 reinforcing mesh / Intermediate 6 / Intermediate 12 must cover that layer.
- Install a second layer of reinforcing mesh a minimum of 4" on both sides of the inside and the outside corners.

**Installation:**

**General Installation Requirements:** International Residential Code (IRC) and International Building Code (IBC) requirements must be satisfied and the manufacturer's installation instructions followed, unless otherwise specified by this product evaluation report.

**Installation:** Installation must be in accordance with the following assemblies (components listed in each assembly are from the inside out):

**Assembly No. 1**

Design Pressure:	-30.0 psf
Wall Studs:	Minimum 18-gauge 3-5/8" x 1-5/8" steel studs; Maximum 16" on center
Sheathing:	Minimum 1/2" DensGlass Gold® or 1/2" GlasRoc® or 1/2" USG® Securock; Applied with horizontal and vertical joints; Attached with 1-1/4" No. 6 Bugle head screws spaced 8" on center around the perimeter and in the field.
Fabric:	Sheathing fabric embedded in the Senershield-R over joints
Air/water Resistive Barrier:	Senershield-R roller applied to a wet film thickness of 10 mils.
Insulation:	1" expanded polystyrene; Minimum 1 pcf; Adhesively applied to the sheathing with Senerflex® base coat using a 1/2" x 1/2" x 2" notched trowel.
Base Coat:	Senerflex® base coat; Applied with a flat, stainless steel trowel to a minimum 1/16" thickness.
Reinforcing Mesh:	Flexguard 4 reinforcing mesh embedded in Senerflex base coat.
Finish:	Senenergy finish.

**Assembly No. 2**

Design Pressure:	-30.0 psf
Wall Studs:	Minimum 18-gauge 3-5/8" x 1-5/8" steel studs; Maximum 16" on center
Sheathing:	Minimum 1/2" DensGlass Gold® or 1/2" GlasRoc® or 1/2" USG® Securock; Applied with horizontal and vertical joints; Attached with 1-1/4" No. 6 Bugle head screws spaced 8" on center around the perimeter and in the field.
Mesh Tape:	Self adhering mesh tape applied over the sheathing joints.
Air/water Resistive Barrier:	Senershield; trowel applied at a 3/32" thickness.
Insulation:	1" expanded polystyrene; Minimum 1 pcf; Adhesively applied to the sheathing with Senerflex® base coat using a 1/2" x 1/2" x 2" notched trowel.
Base Coat:	Senerflex® base coat; Applied with a flat, stainless steel trowel to a minimum 1/16" thickness.
Reinforcing Mesh:	Flexguard 4 reinforcing mesh embedded in Senerflex base coat.
Finish:	Senergy finish.

**Assembly No. 3**

Design Pressure:	-30.0 psf
Wall Studs:	Minimum 18-gauge 3-5/8" x 1-5/8" steel studs; Maximum 16" on center
Sheathing:	Minimum 1/2" DensGlass Gold® or 1/2" GlasRoc® or 1/2" USG® Securock; Applied with horizontal and vertical joints; Attached with 1-1/4" No. 6 Bugle head screws spaced 8" on center around the perimeter and in the field.
Fabric:	Sheathing fabric embedded in the Senershield-R over joints
Air/water Resistive Barrier:	Senershield-R roller applied to a wet film thickness of 10 mils.
Insulation:	1" expanded polystyrene; Minimum 1 pcf; Adhesively applied to the sheathing with Senerflex® base coat using a 1/2" x 1/2" x 2" notched trowel.
Base Coat:	Senerflex® base coat; Applied with a flat, stainless steel trowel to a minimum 1/8" thickness.
Reinforcing Mesh:	Hi-Impact 20 reinforcing mesh embedded in Senerflex base coat.
Base Coat:	Senerflex® base coat; Applied with a flat, stainless steel trowel to a minimum 1/16" thickness.
Reinforcing Mesh:	Flexguard 4 reinforcing mesh embedded in Senerflex base coat.
Finish:	Senergy finish.

**Assembly No. 4**

Design Pressure:	-30.0 psf
Wall Studs:	Minimum 18-gauge 3-5/8" x 1-5/8" steel studs; Maximum 16" on center
Sheathing:	Minimum 1/2" DensGlass Gold® or 1/2" GlasRoc® or 1/2" USG® Securock; Applied with horizontal and vertical joints; Attached with 1-1/4" No. 6 Bugle head screws spaced 8" on center around the perimeter and in the field.
Mesh Tape:	Self adhering mesh tape applied over the sheathing joints.
Air/water Resistive Barrier:	Senershield; trowel applied at a 3/32" thickness.
Insulation:	1" expanded polystyrene; Minimum 1 pcf; Adhesively applied to the sheathing with Senerflex® base coat using a 1/2" x 1/2" x 2" notched trowel.

**Assembly No. 4 (Continued)**

Base Coat:	Senerflex® base coat; Applied with a flat, stainless steel trowel to a minimum 1/8" thickness.
Reinforcing Mesh:	Hi-Impact 20 reinforcing mesh embedded in Senerflex base coat.
Base Coat:	Senerflex® base coat; Applied with a flat, stainless steel trowel to a minimum 1/16" thickness.
Reinforcing Mesh:	Flexguard 4 reinforcing mesh embedded in Senerflex base coat.
Finish:	Senergy finish.

**Assembly No. 5**

Design Pressure:	-37.5 psf
Wall Studs:	Minimum 2x4 Southern Yellow Pine dimension lumber; Maximum 16" on center.
Sheathing:	Minimum 5/8" plywood; Applied with horizontal and vertical joints; Attached with minimum 8d common wire nails spaced 6" on center around the perimeter and 12" on center in the field.
Fabric:	Sheathing fabric embedded in the Senershield-R over joints
Air/water Resistive Barrier:	Senershield-R; 2 coats roller applied to a wet film thickness of 20 mils (10 mils each coat).
Insulation:	1" expanded polystyrene; Minimum 1 pcf; Adhesively applied to the sheathing with Senerflex® base coat using a 1/2" x 1/2" x 2" notched trowel.
Base Coat:	Senerflex® base coat; Applied with a flat, stainless steel trowel to a minimum 1/16" thickness.
Reinforcing Mesh:	Flexguard 4 reinforcing mesh embedded in Senerflex base coat.
Finish:	Senergy finish.

**Note:** Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.