Insulated Masonry Veneer Systems

Fully integrated, code-compliant masonry wall systems with unlimited aesthetic options
Insulated Masonry Veneer Systems
Superior performance with unlimited aesthetic possibilities

As design trends evolve toward multi-cladding with stone and brick; architects, designers, building owners and other construction professionals are seeking alternatives that can help them achieve both the required performance and desired multi-cladding aesthetic, without compromising the effectiveness of the building enclosure. Senergy Wall Systems has designed the Insulated Masonry Veneer System to specifically meet the challenges of multi-cladding construction, creating the look and feel your clients want, with code compliance and building performance you need, at a cost that facilitates project success.

Build with confidence
Fully tested and evaluated to ensure components work as a code-compliant system, the Insulated Masonry Veneer System is listed by ICC Evaluation Service in ESR-1878 evaluation report and complies with NFPA 285 standard.

Reduced complexity
Simplified building materials selection process. Our Insulated Masonry Veneer System seamlessly incorporates all the necessary continuous control layers to manage heat, moisture and air flow, covered under a single source manufacturer warranty.

Masonry veneer aesthetic
Featuring MaxGrip Veneer Mortar, the high-strength, specially formulated setting bed mortar is used to adhere up to 15 psf of natural and manufactured stone, ceramic tile, and thin brick veneer without the need to use mechanical fasteners or Z-girts.

Energy efficiency
Achieve the desired masonry veneer aesthetic without compromising the continuous exterior insulation or penetrating the air and water-resistive barrier, which reduces energy efficiency by causing thermal bridging.

Jobsite productivity
Take the headache out of coordinating the sequence of trades and products from multiple manufacturers. The Insulated Masonry Veneer System can be installed by a single applicator, helping you complete the job on time and within budget.

Arlington, Texas
Charlotte, North Carolina
Channeled Adhesive CI Design with MaxGrip Veneer Mortar

Innovative, high-performance wall system with unlimited aesthetic options

A continuously insulated drainage wall cladding system with a fluid-applied air and water-resistive barrier, moisture drainage, continuous exterior insulation, and MaxGrip Veneer Mortar.

1. Acceptable substrate**
2. Approved Joint Reinforcement: MaxFlash or Sheathing Fabric embedded in Senershield-R/-RS/-VB
3. Senershield-R/-RS/-VB
   Fluid-applied air and water-resistive barrier provides effective air and moisture protection
4. Senergy Adhesive
   Drainage plane for effective moisture control
5. Approved EPS Insulation Board
   Continuous exterior insulation delivers optimal energy efficiency
6. Senergy Base Coat
7. Intermediate 12 Reinforcing Mesh
   Structural wall support impact resistance
8. Senergy Base Coat
9. Skim Coat of MaxGrip Veneer Mortar
10. MaxGrip Veneer Mortar
    High strength, setting bed mortar, used to adhere a variety of masonry veneers
11. Adhered Veneer (By Other)
    Compatible with a variety of masonry veneers, from stone to tile and thin brick

**Acceptable substrates:
- PermaBase® Cement Board and other cement boards conforming with ASTM C1325 (Type A - exterior); poured concrete/unit masonry;
- ASTM C1177 type sheathings, including Weather DefenseTM Platinum sheathing, GreenGlass® sheathing, eXP(TM) sheathing, GlasRoc® sheathing, Securock® glass-mat sheathing, and DensGlass® exterior sheathing; DensElement® (sheathing only), gypsum sheathing (ASTM
  C79/C1396); Exposure I or exterior plywood (Grade C/D or better); or
  Exposure I OSB; Huber Zip (sheathing only).

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**Code Compliance**

<table>
<thead>
<tr>
<th>Document</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ICC ESR-1878</td>
<td>Complies with 2018 and 2015 IBC and IRC</td>
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<tr>
<td>ASTM E2568 / AC 235</td>
<td>Complies with requirements</td>
</tr>
<tr>
<td>ASTM E119</td>
<td>Does not detract from fire rating of base wall</td>
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<tr>
<td>NFPA 285 and 268</td>
<td>Acceptable on non-combustible construction</td>
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<tr>
<td>ICC-ESR 2986 (Senershield-R/-RS)</td>
<td>Air/water-resistive barrier*</td>
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<tr>
<td>Air Barrier Association of America recognized (Senershield-R/-RS/-VB)</td>
<td>Can be used on projects where ABAA recognized air barriers are specified</td>
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MaxGrip Veneer Mortar

Maximum strength and adhesion

High-strength and specially formulated, MaxGrip Veneer Mortar is a setting bed mortar used to adhere up to 15 psf of natural and manufactured stone, ceramic tile, and thin brick veneer to a broad range of substrates. Manufactured stone must comply with applicable requirements of ICC-ES Acceptance Criteria AC51 and thin brick veneer must comply with applicable requirements of ASTM C 1088 per the Brick Industry Association.

- Freeze-thaw stable bond showing resistance to deterioration after repeated temperature cycling per ASTM C-666 (modified using full IVS composite in place of concrete beam)
- Mechanical fasteners and Z-girts not needed, which maintains the integrity of the continuous exterior insulation and air and water resistive barrier
- Maximum adhesion and bond strength to substrate and masonry veneer
- Complies with ANSI 118.4 and 118.15, the American National Standard Specifications for Modified Dry-Set Cement Mortar
- Fully tested per ASTM C109, Standard Test Method for Compressive Strength of Hydraulic Cement Mortars

For complete application recommendations on the use of MaxGrip Veneer Mortar, please review the Product Bulletin.
Non-Insulated Masonry Veneer Systems

The power of choice at your fingertips

Senergy's comprehensive portfolio of Masonry Veneer Systems empowers you to select the system that best meets your building enclosure and exterior finish objectives. BASF’s MaxGrip Veneer Mortar is compatible with a variety of substrates, including cement board, stucco, concrete, CMU, and over BASF Wall Systems air/water resistive barriers.

Cement Board Stucco 1000 with MaxGrip Veneer Mortar
A highly impact and puncture resistant, water-drainage wall system incorporating a cement board core, reinforced base coat and MaxGrip Veneer Mortar.

Sentry Stucco Plus with MaxGrip Veneer Mortar
An impact and puncture resistant, cement plaster stucco system, which incorporates a Senershield-R, -RS, and -VB air and water-resistive barrier to provide a premium level of protection to the sheathing and cavity against moisture and air intrusion and features MaxGrip Veneer Mortar.

Sentry Stucco Ultra with MaxGrip Veneer Mortar
An impact and puncture resistant, cement plaster stucco system with enhanced water management. It incorporates a Senershield-R, -RS, and -VB air and water-resistive barrier to provide a premium level of protection to the sheathing and cavity against moisture and air intrusion and MaxGrip Veneer Mortar.

Concrete Masonry Unit with MaxGrip Veneer Mortar
Concrete Masonry Unit with Senershield-R/-RS/-VB fluid-applied air/water-resistive barrier and MaxGrip Veneer Mortar.
Unparalleled support for exceptional outcomes

Building Information Modeling (BIM)
We have built a large selection of digital content to help you collaborate and communicate more efficiently. Leverage our digital content to develop a pre-construction view of your project and reduce waste and rework. Easily view and download content from BIMsmith and BIMobject for free, including Revit files, product specifications, details, videos and other technical data.

Dedicated to your success
Our dedicated team of building enclosure professionals are with you every step of the way, from field representatives to technical support and application specialists, our team is here to help you achieve the best outcomes.

Contact us to learn more or visit www.senergy.bASF.com
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