Senergy Cement-Board Stucco 1000
Highly impact and puncture resistant, water-drainage wall system incorporating a cement board core, reinforced base coat and 100% acrylic polymer exterior finish

System Overview
**DESCRIPTION**

Senery Cement-Board Stucco 1000 is a high-impact, water-drainage wall cladding system that incorporates a water-resistant barrier and features a cement board (ASTM C1325) core installed with a polymer-modified base coat, fiberglass reinforcing mesh, and finishes. Cement-Board Stucco System 1000 provides extremely high impact and puncture resistance and increased dimensional stability without sacrificing design freedom.

Apply the system over the following acceptable substrates: PermaBase® Cement Board and other cement boards conforming with ASTM C1325 (Type A - exterior); poured concrete/unit masonry; ASTM C1177 type sheathing, including Weather Defense™ Platinum sheathing, GreenGlass® sheathing, eXP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, and DensGlass® exterior sheathing; gypsum sheathing (ASTM C79/C1396); Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB.

System upgrades can include the addition of EPS insulation board trim and anti-soiling enhanced textured finishes to improve resistance to dirt accumulation, elastomeric finishes with enhanced crack bridging capabilities, and tinted primers to improve final aesthetics.

**USES**

For exterior walls in new or retrofit commercial, institutional and residential low-rise construction such as hotels, hospitals, retail, schools, multi-family apartments and condominiums, and government facilities.

**ADVANTAGES**

- Very resistant to impact and punctures; good for high traffic areas
- Superior management of incidental moisture
- Integrates EPS shapes for economical detailing
- Cost-efficient - saves time and reduces scaffolding costs
- Durable
- 100% acrylic, reinforced base coats produce water-resistant barrier and provide crack resistance
- 100% acrylic finish coats resist fading and abrasion
- Excellent flexural, compressive and tensile strength
- Dimensional stability
- Wide selection of standard colors, custom colors, and finish textures

**DESIGN CONSIDERATIONS**

**General**
- Consult cement board manufacturer regarding stud spacing, minimum framing gauge and fastening systems and patterns.

**Expansion Joints**
- Required in the following locations:
  - Where movement is anticipated (e.g., floor lines, canopies, carports, porte-cocheres, etc.)
  - Where Cement-Board Stucco 1000 meets dissimilar materials (e.g., windows, doors, transitions to brick or other siding)
  - Where substrate materials change
  - At floor lines in wood frame construction where movement or cross grain shrinkage is anticipated

- At structural or existing expansion joints
- Minimum expansion joint size by design for anticipated movement.

**Control Joints**
- Place in accordance with guidelines described in Cement-Board Stucco 500 & 1000 Trim Accessories technical bulletin.

**Horizontal Applications**
- Minimum slope: 1:2 with maximum width of 30.5 cm (12”) [e.g. 15 cm in 30.5 cm (6” in 12”) width].

**Substrate**
- Maximum substrate design deflection is L/360. Substrate must be level within 6 mm in 3 m (1/4” in 10’).
- Sheathing must be securely fastened per applicable building code and manufacturer’s requirements.
- Sheathing must be attached with corrosion resistant fasteners.

**Air/Water-Resistant Barrier**
- Sheathing must be protected with either Senershield, Senershield-R or Senershield-VB, or other code approved water-resistant barrier, installed per applicable building code and manufacturer’s requirements.

**Cement Board**
- Cement board must satisfy ASTM C1325.
- Cement board must be securely fastened per applicable building code, manufacturer’s requirements and Senery details.
- Cement board must be a single piece around corners of openings.
- Cement board must be fastened with corrosion resistant fasteners.
- Cement board and sheathing must be offset.

**Optional Insulation Board Trim Shapes**
- All EPS shapes must be reinforced with Senery mesh and base coat.

**Sealants, Backer Rod, Flashing**
- Approved sealant installed with approved backer rod or bond breaker tape shall be used at all transitions between Cement Board Stucco 1000 and other elements such as windows, doors, vents, penetrations, transitions to dissimilar elements, etc.
- Flashing at windows, doors, chimneys, transitions between Cement Board Stucco 1000 and roof and at other points specified shall be installed in accordance with component manufacturer’s instructions.

**BEST PRACTICES FOR INSTALLERS**

**General**
- All flashing should be installed per codes prior to the installation of Cement Board Stucco 1000.
- A mock-up of the Cement Board Stucco 1000 system showing all components should be prepared using the same tools and skills that will be used in actual construction, and the sample should be kept at the job site during construction.
- Pail components must be kept at a temperature of 4°C (40°F) and at a maximum of 43°C (110°F) during shipping and storage. A minimum temperature of 4°C (40°F) is required during application of liquid components and until completely dried. Protect dry (bagged) products from moisture. Optional EPS insulation boards should be stored flat, out of direct sunlight.
- No additives are permitted to any components unless otherwise approved by BASF Wall Systems.
• To reduce the potential for intruding water to degrade water-sensitive sheathing and framing, and to keep water out of the stud cavity, rough openings must be properly protected and a means provided to allow intruding water to escape. Sill areas should be adequately flashed and weatherproofed. Avoid details that trap water and follow the window and door manufacturers’ recommendations for proper installation.

Reinforced Base Coat
• Reinforce all cement board joints with base coat and 4” strips of Flexguard 4 Reinforcing Mesh or Self-Adhering Mesh.
• Special shapes should be attached prior to reinforcement layer over cement board. They must also be reinforced with base coat and Flexguard 4.
• Install Corner Mesh at all inside and outside corners.
• Apply Reinforcing Mesh 4 or Intermediate 6 Mesh and base coat over entire cement board surface. Reinforcing 4 or Intermediate 6 Meshe must overlap a minimum of 2 1/2”.
• Mesh color should never be visible through the base coat.
• Protect from precipitation for a minimum of 24 hours.

Finish
• (Optional) Apply Senergy TINTED PRIMER to dry reinforced Base Coat.
• A primer tinted to the color of the finish is recommended prior to application of rilled finishes.
• Apply Senergy finish coat to match the specified finish type, texture and color when primer and/or reinforced base coat are dry.
• Use only stainless steel trowels.
• Avoid working in direct sunlight.
• Finishes should be applied with adequate man power, tools and staging to keep a wet edge.
• Do not run finish into joints.
• Do not quit in the middle of a wall; run to natural breaks.

• Do not use different batches of finish on the same elevation.
• Protect from precipitation for a minimum of 24 hours.
• Do not apply finish over sealants.

LIMITATIONS
• Use only for above grade vertical walls.

KEY UPGRADES AVAILABLE:
System upgrades can include the addition of high-impact resistant reinforcing mesh, specialty finishes, silicone enhanced textured finishes to improve dirt pick up and mildew resistance, and tinted primers to enhance final aesthetics.

SPECIFICATIONS & DETAILS
The contents of this system overview are intended to provide the design professional information required to evaluate this assembly against specific project requirements. Further useful information to support the creation of a project manual such as a guide specification, product bulletins, and assembly details are available on the Senergy website at www.senergy.basf.com.

TECHNICAL SUPPORT
For answers to questions or specific recommendations about this assembly, please consult our website at www.senergy.basf.com or contact our Technical Services Department: Toll-free 800-589-1336.

HEALTH & SAFETY
Follow good safety and industrial hygiene practices during handling and installing products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.
WARRANTY

Refer to the Senergy EIFS, and Coating Warranty Schedule for specific information about this product/system.

BASF warrants this product to be free from manufacturing defects and to meet the technical properties on the current Product Bulletin, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BASF MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of BASF. In the absence of an extended warranty issued by BASF, any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BASF WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on BASF’s present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. BASF reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.