

Senerflex Classic PB Wall System

Class PB Exterior Insulation and Finish System providing a primary moisture barrier and optional secondary air/weather barrier

DESCRIPTION

Senerflex Classic PB is an Exterior Insulation and Finish System (EIFS) that provides a durable weather-resistant primary barrier. The system offers design flexibility, aesthetic appeal and energy savings. Integrated system components include adhesive, EPS insulation board, reinforced base coat and 100% acrylic polymer finish. Finishes are available in a limitless color selection and offer performance enhancement options, including increased resistance to dirt pick-up and mildew. Other systems options include: air/water-resistive barriers, protection against high impact and specialty finishes that create stone-like, metallic or mottled stucco appearances. Senerflex Classic PB complies with ASTM E 2568 and has passed rigorous tests including Full-Scale Fire, Wind-Load, Wind-Driven Rain, and Large and Small Missiles.

The system features easy installation, proven durability and low maintenance.

Apply the system directly to 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 sheathings, including Weather Defense™ Platinum sheathing, GreenGlass® sheathing, e2XP™ 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.

USES

For new or retrofit commercial and institutional construction such as hotels, hospitals, retail, schools, multi-family apartments and condominiums, and government facilities. Senerflex Classic PB can be panelized to expedite year-round construction. Use over mass walls where drainage is not required.

ADVANTAGES

- Cost-effective
- Ability to achieve any architectural style with unlimited design options

- Economical architectural detailing
- Seamless exterior blanket of insulation provides high R values, lowers heating and cooling costs
- Multiple options for impact resistance improve functional design, ease of maintenance
- Plaster trims/accessories are not required for installation
- Wide selection of standard colors, custom colors, and finish textures

DESIGN CONSIDERATIONS

General

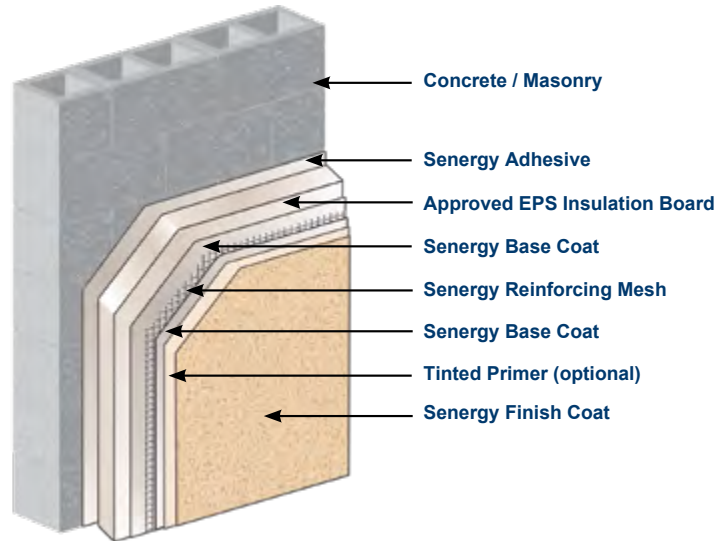
- The design wind-load shall not exceed the system's allowable wind-load as stated in applicable code reports.
- Details shall conform with Master Builders Solutions Wall Systems' recommendations and shall be consistent with the project requirements.
- System is not designed for horizontal applications.
- Use high impact mesh for ground floor applications in high traffic areas.
- Consult the framing and sheathing manufacturer for design and application considerations.
- Limit the use of dark colors. Heat build up behind dark colors can adversely affect the performance of EPS insulation. Use of colors with a light reflectance value of less than 20% require the approval of the Master Builders Solutions Wall Systems' Technical Department.
- Do not use below grade; system must terminate a minimum of 203 mm (8") inches above grade.

Expansion Joints

Required in the following locations:

- Where movement is anticipated (e.g., floor lines, canopies, carports, porte-cocheres, etc.)

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- Where EIFS 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
- Expansion joint size should be determined by a design professional.

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 $L/240$.
- Consult the framing and sheathing manufacturer for design and application considerations.

Sealants, Backer Rod, Flashing

- Approved sealant installed with approved backer rod or bond breaker tape shall be used at all transitions between EIFS and other elements such as windows, doors, vents, penetrations, transitions to dissimilar elements, etc.
- Flashing at windows, doors, chimneys, transitions between EIFS 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 Senerflex Classic PB Wall System.
- A mock-up of the Senerflex Classic PB Wall 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 minimum of 4°C (40°F) (10°C/50°F for AURORA TC-100, Aurora Stone and Alumina Finishes) during shipping and storage. A minimum temperature of 4°C (40°F) (10°C/50°F for AURORA TC-100, Aurora Stone and Alumina Finishes) is required during application of all components and until completely dried.
- Protect dry (bagged) products from moisture. EPS insulation boards should be stored flat, out of direct sunlight.
- No additives are permitted to any components.
- Follow the application instructions for each component.
- All substrates must be clean, dry and sound without planar irregularities greater than 1/4" in 10'.
- All flashing should be installed per codes prior to the installation of Senerflex Classic PB Wall System.

Insulation Boards

- If using optional Senershield, Senershield-R, or Senershield-VB fluid-applied air/water-resistive barrier, refer to the product bulletin and technical bulletins for application instructions.
- All system terminations and penetrations must be back-wrapped with mesh and base coat.

- EPS board size is limited to 2' x 4'. The thickness of the board must be 3/4" to 4". The minimum thickness of EPS at any point on the wall cannot be less than 3/4". Consider this when installing reveals.
- Do not break reinforcing mesh in the reveal; offset 4–6" minimum. Do not align reveals with insulation board joints; offset 4–6" minimum.
- Offset from sheathing joints by a minimum of 16". Offset from corners of doors, windows and other penetrations by a minimum of 4".
- Stagger joints in a running bond pattern offset a minimum of 6".
- Interlock corners.
- Prior to installation of the base coat, entire EPS covered wall must be completely rasped to remove high and low spots and to remove dust from the surface of the EPS.
- To avoid waste or insufficient adhesion, use the proper sized notched trowel to apply adhesive to back of insulation boards.
- If using mechanical fasteners, use only those specified by Master Builders Solutions Wall Systems and install according to specifications. Do not overdrive mechanical fasteners. They should recess only 1/16" from surface.
- Always fill voids in insulation layer greater than 1/16" with slivers of insulation and not with base coat or other materials.

Reinforced Base Coat

- Mesh color should never be visible through the base coat.
- If mechanical fasteners were used to attach insulation, pre-spot each washer head with 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 Strong 15/Hi-Impact 20 mesh are embedded in base coat, a second layer of Flexguard 4/Intermediate 6/Intermediate 12 and base coat must cover that layer.
- Install "butterflies" of standard mesh at corners of all windows, doors and other penetrations.
- Install a second layer of reinforcing mesh a minimum of 4" on both sides of inside and outside corners.
- Special shapes must also be reinforced with base coat and reinforcing mesh.

- This system is not designed for horizontal applications. Always maintain a minimum slope of 1:2 up to a maximum width of 12".
- Protect work from precipitation for a minimum of 24 hours.

Finish

- 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.
- A primer tinted to the color of the finish is recommended prior to application of rilled finishes.
- 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.
- 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 senergy.master-builders-solutions.com/en.

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