

## Senergy Platinum CI Stucco

A continuously insulated stucco system

### DESCRIPTION

Senergy Platinum CI Stucco is a continuously insulated stucco system with a variety of rigid insulation board options to optimize thermal performance. Acceptable rigid insulation boards include EPS, Neopor, XPS and PolyIso for ease of design to ensure energy code compliance. The system uses a secondary water-resistive barrier to provide a cost-effective level of protection of the sheathing and cavity against moisture and air intrusion.

Optional Senergy base coat and DiamondShield reinforcing mesh are available for superior crack suppression. Finishes are available in a limitless color selection. Performance enhancement options include increased resistance to dirt pick-up and mildew, and specialty finishes that create stone-like, metallic or mottled stucco appearances. Senergy Platinum CI Stucco has passed rigorous tests including Full-Scale Fire, Radiant Heat, Wind-Load, and Water Resistance.

#### Apply the system directly to the following acceptable substrates:

- ASTM C1177 type sheathings, including DensGlass™ exterior sheathing, eXP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, Weather Defense™ Platinum sheathing, and GreenGlass® sheathing
- PermaBase™ cement-board by National Gypsum and other cement-boards (ASTM C1325 Type A Exterior)
- Untreated Exposure I or exterior plywood sheathing (grade C-D or better)
- Untreated Exposure I OSB
- Gypsum sheathing (ASTM C79/ASTM C1396)
- Poured concrete/unit masonry

### USES

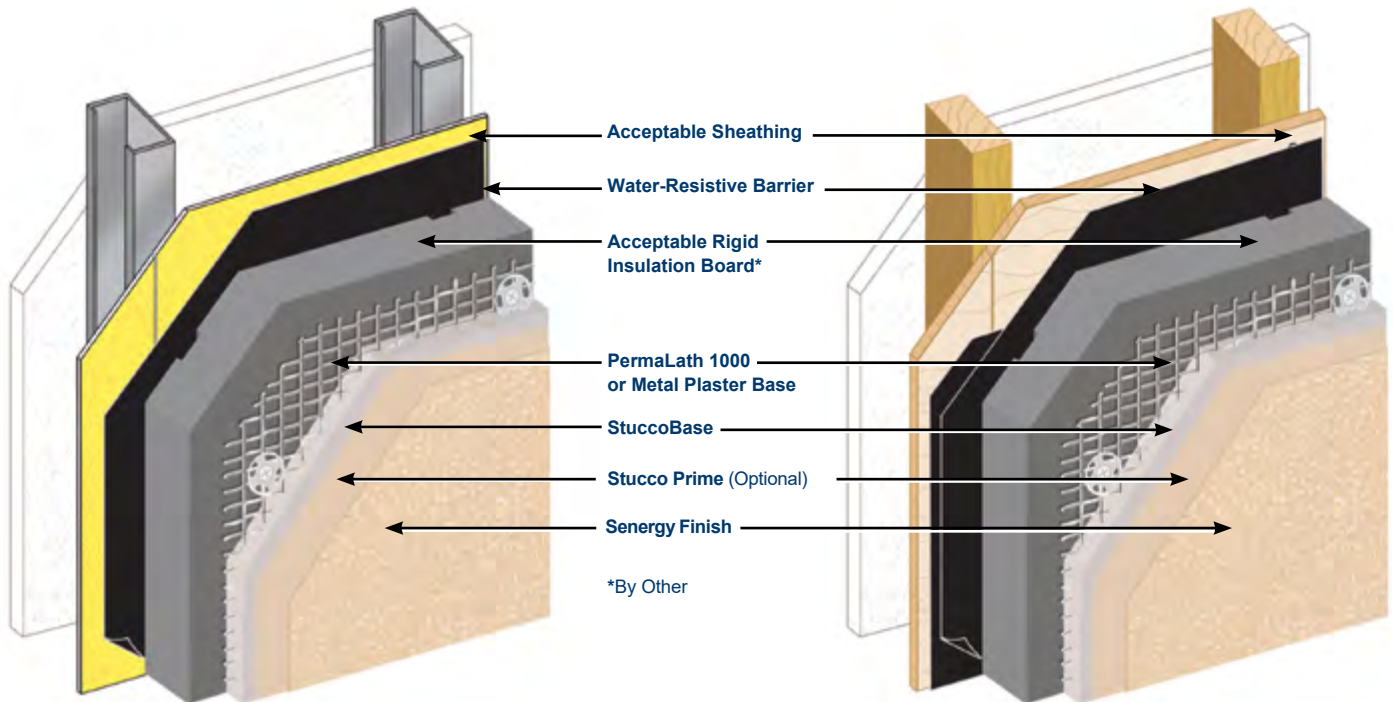
For exterior walls in new and retrofit commercial, institutional and residential construction when a continuous high effective R-value is needed to meet energy or eco-efficiency standards, and/or when a rainscreen is desired or required to satisfy code issues related to drainage.

### ADVANTAGES

- Highly energy efficient, easy to specify a design that meets ASHRAE design standards and IGCC/IECC code requirements for the use of continuous insulation
- Provides a drainage plane for directing incidental moisture out of the wall assembly
- Available PermaLath 1000 self-furred glass fiber reinforcing lath that will not rust
- Factory prepared StuccoBase minimizes potential site mixing errors; improves quality control
- Senergy acrylic modified base coat over StuccoBase enhances water resistance performance and finish coat aesthetics
- Elastomeric finish coat bridges hairline cracks.
- Senergy Flexguard 4 reinforcing mesh or DiamondShield option further increases crack resistance.
- Resistant to impact and punctures; good for high traffic areas.
- Cost-effective
- Provides design flexibility with numerous design options
- Economical architectural detailing
- Fade-, abrasion- and dirt-resistant
- Wide selection of finish textures, standard colors and unlimited custom colors

## Senergy Platinum CI Stucco System over metal studs

## Senergy Platinum CI Stucco System over wood studs



### DESIGN CONSIDERATIONS

- Maximum allowable deflection  $L/360$ , based on structural properties only.
- 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.
- Control joints and trim accessories required. Control joint placement is required in the Senergy Platinum CI Stucco Wall System every 144 ft<sup>2</sup> per ASTM C1063.
- Consult the framing and sheathing manufacturer for design and application considerations.
- Expansion joints are required in the system where they exist in the substrate, where the system adjoins dissimilar construction, at changes in substrates and at floor lines in multilevel wood frame construction.
- System shall terminate at expansion joints.
- Sealant joints shall be detailed and installed per sealant manufacturer's recommendations.
- A minimum 6:12 slope is required on all horizontal surfaces greater than 1".
- Backer rod, sealant and flashing are required at door and window openings.

## Senergy Platinum CI Stucco Test Results Complies with AC 11

TEST	RESULT
<b>ASTM G153</b> Accelerated weathering	No deleterious effects after 2000 hours viewed under 5x magnification
<b>ASTM D2247</b> Water Resistance	No deleterious effects at 14 day exposure
<b>UBC Standard 26-9/NFPA 285</b> Intermediate Scale Multi-story Fire Test	Met test criteria with Senergy Senersshield-R/RS/VB, Certa Wrap, WeatherMate or WeatherMate Plus, Tyvek StuccoWrap, Grade D Building Paper or No. 15 Asphalt Felt
<b>NFPA 268</b> Radiant heat exposure	Met test criteria
<b>ASTM E 84</b> Surface burning	System Components Flame spread <25; Smoke developed <450
<b>ASTM E119</b> Methods for fire tests of building construction and materials	1-hour rating with maximum R10 Neopor GPS Plus Rigid Insulation Board
<b>ASTM E136</b> Behavior of materials in a vertical tube furnace at 750° C	StuccoBase with PermaLath 1000 specimens met the weight loss criteria for passing the test
<b>ASTM E2273</b> Drainage efficiency	Exceeds 90% minimum
<b>ASTM B117</b> Salt spray resistance	No deleterious effects at 300 hours exposure period
<b>AC11</b> Freeze-thaw resistance	No deleterious effects after 10 cycles viewed under 5x magnification

### ACCEPTABLE RIGID INSULATION BOARDS (meet NFPA 285)

- Maximum 2.5-inch thickness of ASTM C578 Type II EPS must be ASTM E84 Class A)
  - Maximum 2.4-inch thickness NEOPOR GPS PLUS Type II Rigid Insulation Board
  - Maximum 3-inch thickness of ASTM C578 Type XI EPS (must be ASTM E84 Class A)
  - Maximum 1.7-inch thickness of ASTM C578 Type IX EPS must be ASTM E84 Class A)
  - Maximum 3-inch thickness XPS, ASTM C578 Type IV or Type X (must be ASTM E84 Class A)
  - Maximum 3-inch thickness, Atlas EnergyShield Pro
  - Maximum 3-inch thickness, Atlas EnergyShield Pro2
  - Maximum 3-inch thickness, Hunter Xci Class A
  - Maximum 3-inch thickness, Hunter Xci CG 1
  - Maximum 4-1/4-inch thickness, Hunter Xci Ply (maximum 3-1/2-inch foam, maximum 3/4-inch plywood)
  - Maximum 3-inch thickness, Carlisle R-2+ Sheathe, R2+ Mat or R2+ Silver
  - Maximum 3-inch thickness, unfaced noncombustible insulation (e.g. mineral wool)
- Note: Interior sheathing must be 5/8" type X gypsum wallboard for all CI Stucco systems

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