



We create chemistry

Platinum CI Stucco

A continuously insulated stucco system featuring Neopor® rigid insulation



 **Neopor**®
Innovation in Insulation

DESCRIPTION

PLATINUM CI STUCCO is a continuously insulated stucco system featuring Neopor® advanced insulation technology. Silver-gray Neopor® is the latest innovation in insulation from BASF that exceeds ASTM C578 Type I and Type II requirements. Neopor® is a patented foam insulation material with graphite embedded into the polymer matrix. Graphite reflects infrared energy, thus decreasing the material's thermal conductivity and increasing its R-value. PLATINUM CI STUCCO utilizes a specially selected density (1.45 pcf) of Neopor boards to optimize thermal performance and improve impact resistance. The boards are available in R-5, R-7.5 and R-10 thermal resistance for ease of design to ensure energy code compliance. Custom thicknesses are also available. The system uses a secondary air/water-resistive barrier to provide a cost-effective level of protection of the sheathing and cavity against moisture and air intrusion. It offers design flexibility, aesthetic appeal and energy savings. Integrated system components include BASF air/water-resistive barrier, Neopor insulation board, lath, BASF Stuccobase, base coat and finish coat. 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. PLATINUM CI has passed rigorous tests including Full-Scale Fire, Radiant Heat, Wind-Load, and Water Resistance.

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

Apply the system directly to the following acceptable sheathings:

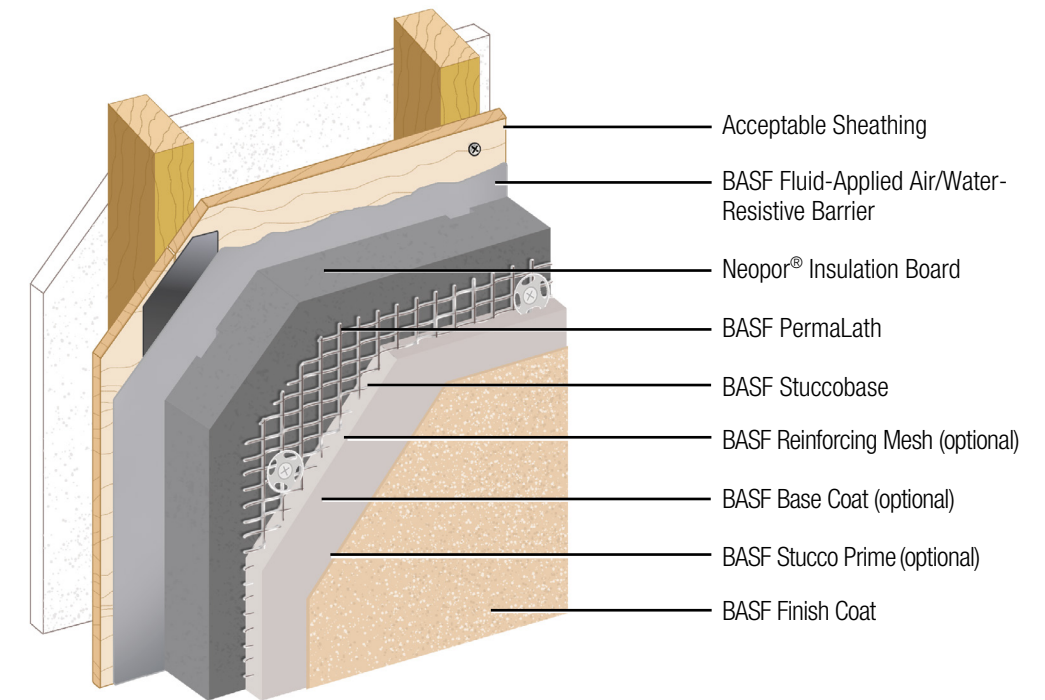
- ASTM C1177 type sheathings, including DensGlass™ exterior sheathing, e²XP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, Weather Defense™ Platinum sheathing, and GreenGlass® sheathing
- PermaBase™ cement-board by National Gypsum and other cement-boards (ASTM C1325 Type A Exterior)
- 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
- Neopor R-5, R-7.5 and R-10 insulation boards offer numerous advantages:
 - Zero thermal drift that ensures long-term R-value stability.
 - Contains no CFC's or HCFC's and is manufactured with a foaming agent that has zero-ozone depletion potential to lower environmental impact.
 - Vapor permeable and water resistant for optimum drainage wall performance.
 - Silver-gray color reduces job site glare and is easier on the eyes of installers.
 - Is 100% recyclable and Greenguard Indoor Air, and Children and Schools Certified
- Incorporates a monolithic secondary air/water-resistive barrier
- Provides a drainage plane for directing incidental moisture out of the wall assembly
- Seamless wall surface provides high resistance to potential water intrusion from rain and other environmental sources
- Self-furred glass fiber reinforcing lath in durable plaster base that will not rust.
- Factory prepared STUCCOBASE minimizes potential site mixing errors; improves quality control.
- Acrylic modified base coat over STUCCOBASE enhances water resistance performance and finish coat aesthetics.
- Elastomeric finish coat bridges hairline cracks.
- Reinforcing mesh option further increases crack resistance.
- Very resistant to impact and punctures; good for high traffic areas.
- Cost-effective
- Provides the ability to achieve any architectural style with unlimited design options
- Economical architectural detailing
- Fade-, abrasion- and dirt-resistant
- Wide selection of finish textures, standard colors and unlimited custom colors



Platinum CI Stucco over wood studs

DESIGN CONSIDERATIONS

- Maximum allowable deflection L/360, based on stud 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 BASF Wall Systems' recommendations and shall be consistent with the project requirements.
- Control joints and trim accessories required. Control joint placement is required in the PLATINUM CI STUCCO Wall System every 144 ft² 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.

BEST PRACTICES FOR INSTALLERS

- It is recommended that the building should carry a minimum of 90 percent of the dead building load and that the interior gypsum should be installed prior to installation of the stucco.
- Coordination of other trades is recommended so that wall penetrations for cable, electricity, water and vents are installed with proper enclosures prior to installation of the stucco.
- Pail components must be kept at a minimum 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.
- No additives are permitted to any components unless specifically approved by BASF Wall Systems.
- Follow the application instructions for each component.
- Windows and doors may permit some water to pass through the frame materials or joints. 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.

Neopor Test Results

Physical Property	ASTM Method	Units	R-5	R-7.5	R-10
R-Value, 75F	C518	Btu • in/ft ² hr • degF	5	7.5	10
R-Value, 40F	C518	Btu • in/ft ² hr • degF	5.5	7.9	11
Thickness	-	inches	1 1/8"	1 5/8"	2 1/4"
Compressive Strength	D1621	psi, min		20	
Flexural Strength	C203	psi, min		40	
Water Vapor Permeance	E96	perm, max		3.5	
Water Absorption	C272	% by volume max		3.0	
Water Affinity	BASF	-		Hydrophobic	
Water Capillarity	BASF	-		None	
Dimensional Stability	D2126	% linear change max		2.0	
Flame Spread	E84	-		<25	
Smoke Developed	E84	-		<450	
Oxygen Index min	D2863	min		24	
Adhesive Compatibility	BASF	-		Excellent	

Platinum CI Stucco Test Results - Complies with AC 11

Test	Result
ASTM G153 Accelerated weathering	No deleterious effects after 2000 hours viewed under 5x magnification.
ASTM D2247 Water Resistance	No deleterious effects at 14 day exposure.
UBC Standard 26-9/NFPA 285 Intermediate Scale Multi-story Fire Test	Met test criteria with R10 thick NEOPOR insulation.
NFPA 268 Radiant heat exposure	Met test criteria with R10 NEOPOR insulation.
ASTM E 84 Surface burning	System Components Flame spread <25; Smoke developed <450
ASTM E119 Methods for fire tests of building construction and materials	1 hour rating with maximum R10 NEOPOR insulation
ASTM E2273 Drainage efficiency	Exceeds 90% minimum
ASTM B117 Salt spray resistance	No deleterious effects at 300 hours exposure period.
AC11 Freeze-thaw resistance	No deleterious effects after 10 cycles viewed under 5x magnification.

NOTE

BASF Wall Systems is an operating unit of BASF Corporation (herein after referred to as "BASF Wall Systems")

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