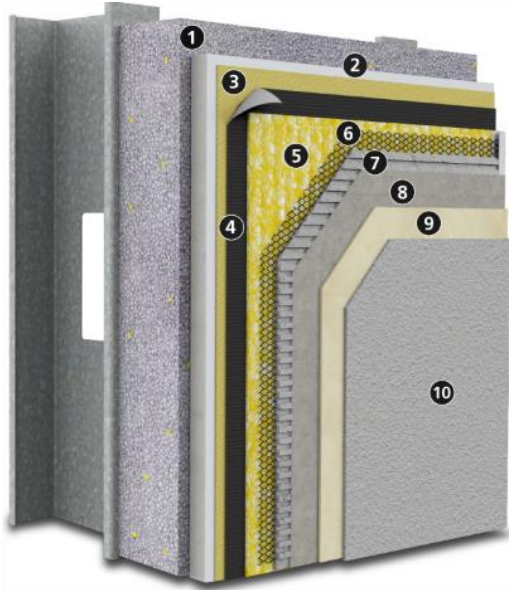


StoPowerwall® ci Inbound

Portland cement stucco with StoGuard® air and water-resistive barrier, continuous insulation, Sto DrainScreen® advanced cavity wall design, and Sto high performance finishes



1)	Continuous Insulation: Sto GPS Board - Graphite Enhanced Polystyrene (GPS) rigid insulation board in compliance with ASTM C578, Type 1
2)	Substrate: Glass mat gypsum sheathing in compliance with ASTM C1177, Exterior or Exposure 1 wood-based sheathing (plywood or OSB), code compliant concrete or concrete masonry wall construction.
3)	Air and Water-Resistive Barrier (AWRB), choose among: <ul style="list-style-type: none"> Sto Gold Coat® Sto AirSeal® StoGuard® VaporSeal® Sto GoldSeal™ STPE StoShield™ SA VP StoShield™ SA NP
4)	WRB: code compliant paper or felt water-resistive barrier
5)	Drainage Mat: Sto DrainScreen®
6)	Metal Plaster Base: code compliant minimum 2.5 lb/yd ² (1.4 kg/m ²) self-furred galvanized steel diamond mesh metal lath or Structa-lath SFCR Twin Track 2.5 self-furring wire lath
7), 8)	Stucco: ASTM C926 compliant stucco scratch coat and brown coat (as manufactured or listed by Sto Corp.)
9)	Sto primer (optional)
10)	Choose among: <ul style="list-style-type: none"> Sto Textured Finishes StoCast Finishes: Wood or Brick Sto Signature or Sto Specialty Finishes

System Accessory: StoSeal STPE Sealant for use as an exterior weather seal around wall penetrations, at dynamic joints in wall construction, and as an interior air seal for air barrier continuity

System Description

StoPowerwall ci Inbound is an energy efficient stucco wall assembly with a continuous air and water-resistive barrier (AWRB) and continuous insulation. It combines the strength and durability of traditional stucco with an advanced cavity wall design and Sto high performance finishes in a fully tested wall cladding assembly

Uses

StoPowerwall ci Inbound can be used in residential or commercial wall construction where energy efficiency, superior aesthetics, and air and moisture control are essential in the climate extremes of North America

Features

Benefits

Integrally colored factory blended textured finish	Consistent color and aesthetics increase curb appeal
Continuous exterior insulation	Energy efficient, reduced heating and cooling costs
Impact and puncture resistant	Withstands abuse, reduced maintenance
Continuous air and water-resistive barrier	Protects against mold and moisture problems
ci component inbound of sheathing	Simplifies construction sequencing

Properties

Weight (excluding sheathing / studs)	< 12 psf (56.6 kg/m ²)
Assembly Thickness (from exterior stud face)	Nominal 5-in (127mm) with 3-in (76mm) Sto GPS Board
R-value (insulation only)	5 – 14 ft ² •h•°F / Btu (0.88 – 2.47 m ² •K / W)
Wind Load Resistance	+ 202 / - 144 psf ultimate loads achieved (+9.67 / - 6.89 kPa)
Compliance	<ul style="list-style-type: none"> 2018 and 2021 IBC, IRC, IECC ASHRAE 90.1-2022
Construction Types, Fire Resistance	<ul style="list-style-type: none"> NFPA 285 tested for use on noncombustible construction ASTM E119 hourly rated assemblies

Warranty

Up to 15-year Limited Warranty available on Sto products, depending on options selected

Maintenance

Requires periodic cleaning to maintain appearance, repair of cracks and impact damage if they occur, recoating to enhance appearance of weathered finish. Sealants and other façade components must be maintained to prevent water infiltration.

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Limitations	
Minimum insulation board thickness: 1- ¹ / ₁₆ -in (27mm). Maximum insulation board thickness: 3-in (76 mm). Minimum stucco thickness : ³ / ₄ -in(19mm). Maximum stucco thickness: ⁷ / ₈ -in (22mm)	
Use on noncombustible construction and fire resistance rated assemblies limited to 3-in (51mm) maximum insulation board thickness. Refer to ICC ESR-1233.	
Wind load resistance: . + 202 / -144 psf (+9.66 / -6.89 kPa) ultimate loads achieved over steel studs with gypsum wallboard attached to interior. Wind loads achieved without ci component. Consult ICC ESR-2323 and IAPMO 382 for other assemblies over steel and wood studs (assemblies have a safety factor of 3 applied). Ultimate wind load resistance depends on sheathing, sheathing attachment, lath attachment, and stiffness of supporting wall construction. Test any proposed assembly as needed and apply appropriate safety factor in accordance with local code requirements.	
Cracking can occur in portland cement stucco. Cracking is generally not caused by a material defect in the stucco and can be minimized by following sound design and construction practices such as: proper installation of lath, proper incorporation of stress relief joints in the construction, proper sand gradation for field mixed stucco, proper proportioning of stucco mix ingredients, use of the minimum amount of water in the stucco mix for placement of stucco, avoiding the use of excess water, moist curing of the stucco after it has been applied, and proper sequencing of construction to avoid stresses in the freshly placed stucco.	
Efflorescence is a normal occurrence in portland cement-based products and can affect final appearance of finish products.	
For use on vertical above grade walls only. Do not use on roofs or roof-like surfaces, on surfaces subject to in-service water immersion, or below grade. Maintain clearance of minimum 4-in (102mm) above earth grade and minimum 2-in (51mm) clearance above pavers or sidewalks.	
Insulation material is flammable. Keep away from flame, ignition sources, and high heat (temperatures in excess of 165°F [74° C]). A 15-minute thermal barrier (typically ½ inch gypsum wallboard) is required by most building codes to separate the GPS insulation from the interior.	
Dark or highly saturated finish colors may require added maintenance compared to light or pastel colors.	
Air Barrier, insulation board, drainage mat, and base coat materials are not intended for prolonged weather exposure. Refer to component product bulletins for specific limitations involving exposure, use, handling and storage of component materials.	
Sustainable Design	
Air Quality and VOC Compliance	
All finish coatings, adhesives, AWRB coatings and joint treatments meet US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC requirements	
Sustainability	
The system has high potential for LEED and other sustainability program credits based on efficient and effective use of a continuous air barrier and continuous exterior insulation and the resulting reductions in energy use and greenhouse gas emissions. The use of light weight metal studs and light weight finishes has positive impacts on life cycle energy use by reducing dead loads and structural support requirements when compared to mass wall and full thickness/weight veneer units. Sto GPS Board does not use fluorocarbon blowing agents (HFC, HCFC, or CFC) in manufacturing. It is recyclable and has excellent long term thermal stability, low global warming potential and zero ozone depletion potential.	
Regulatory Compliance and Standards Testing	
ASTM C926	StoPowerwall stucco and listed stuccos comply with ASTM C926 (as required by the IBC, IRC, and most state codes)
UL ER16529-01	GPS Board listed and labeled by UL Solutions
ICC ESR-1233	Sto air & water-resistive barriers Comply with 2018 and 2021 IBC, IRC and IECC
ASHRAE 90.1-2022 ¹	StoPowerwall ci Inbound complies with Section 5, Building Envelope, air barrier and continuous insulation requirements
ASTM E2178 ² and ASTM E2357 ³	Sto Gold Coat AWRB meets material and assembly air leakage resistance criteria
NFPA 285 ⁴	StoPowerwall ci Inbound meets IBC criteria for use on noncombustible construction with up to 3-in (76mm) of insulation
ASTM E 119 ⁵	StoPowerwall ci Inbound achieved 1-hour fire resistance rating when tested over non-load bearing steel frame wall construction and maintains the 1-hour rating of other building code or UL listed non-load bearing base wall assemblies (with up to 3-in [76mm] of insulation). A 2-hour rating is achieved with 2 layers of ⁵ / ₈ -in type X gypsum sheathing / wallboard on the exterior / interior.

1. Energy Standard for Buildings Except Low-Rise Residential Buildings, 2. Standard Test Method for Air Permeance of Building Materials 3. Standard Test Method for Determining Air Leakage of Air Barrier Assemblies, 4. Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components, 5. Standard Test Methods for Fire Test of Building Construction and Materials

Sto Corp. 3800 Camp Creek Parkway Building 1400, Suite 120 Atlanta, GA 30331 Tel: 404-346-3666 Toll Free: 1-800-221-2397 Fax: 404 346-3119 www.stocorp.com	SB - 6200 Revision: 007 Date: 05/2025	<p style="text-align: center;">Attention</p> <p>Sto products are intended for use by qualified professional contractors, not consumers, as a component of a larger construction assembly as specified by a qualified design professional, general contractor or builder. They should be installed in accordance with those specifications and Sto's instructions. Sto Corp. disclaims all, and assumes no, liability for on-site inspections, for its products applied improperly, or by unqualified persons or entities, or as part of an improperly designed or constructed building, for the nonperformance of adjacent building components or assemblies, or for other construction activities beyond Sto's control. Improper use of Sto products or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to this product, and to the structure of the building or its components. STO CORP. DISCLAIMS ALL WARRANTIES EXPRESS OR IMPLIED EXCEPT FOR EXPLICIT LIMITED WRITTEN WARRANTIES ISSUED TO AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH STO'S WARRANTY PROGRAMS WHICH ARE SUBJECT TO CHANGE FROM TIME TO TIME. For the fullest, most current information on proper application, clean-up, mixing and other specifications and warranties, cautions and disclaimers, please refer to the Sto Corp. website, www.stocorp.com.</p>
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