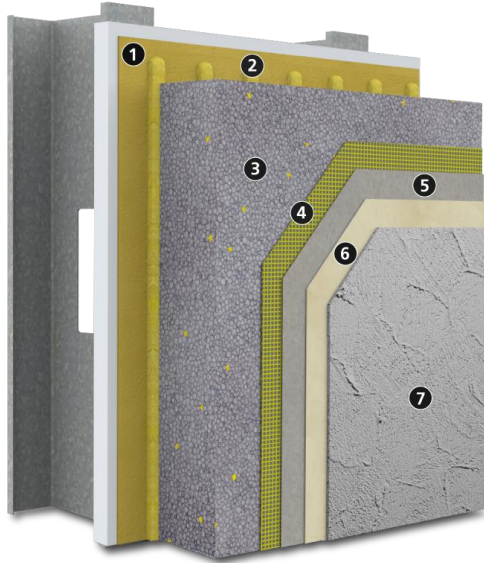


StoTherm® ci GPS

Decorative cladding with continuous insulation and StoGuard® Air and Water-resistive Barrier combined with Sto high-performance finishes. Includes Sto Lamella Fireblocking where required¹.



Substrate: Glass Mat Gypsum sheathing in compliance with ASTM C1177, Exterior or Exposure I wood-based sheathing (plywood or OSB), cement board in compliance with ASTM C1325, code compliant concrete, concrete masonry, portland cement plaster, or existing structurally sound, uncoated brick.

	Air Barrier and Water-resistive Barrier, choose among:
1)	<ul style="list-style-type: none"> Sto Gold Coat® Sto GoldSeal™ STPE Sto AirSeal®
2)	Adhesive: Sto TurboStick®
3)	Insulation: Sto GPS Board
4)	Reinforcement: Sto Mesh (embedded in Sto base coat)
5)	Base Coat options: Sto BTS Plus, Sto BTS Xtra, Sto Primer/Adhesive-B, Sto Primer/Adhesive, Sto RFP, StoArmat Classic Plus
6)	Primer: StoPrime Sand (optional)
7)	Finish, choose among: <ul style="list-style-type: none"> Sto Textured Finishes StoCast Finishes Sto Signature and 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

1. Sto Lamella is a required component in StoTherm ci GPS for compliance with the 2022 NYC Building Code or when Sto GoldSeal STPE is used as the AWRB in StoTherm ci GPS

System Description

StoTherm ci GPS is a decorative and protective exterior wall cladding that combines superior air and weather tightness with excellent thermal performance and durability. It incorporates continuous exterior insulation and StoGuard Air and Water-resistive Barrier (AWRB) with Sto's high-performance finishes in a fully tested wall cladding assembly.

Uses

StoTherm ci GPS 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 the Americas.

Features	Benefits
Continuous exterior insulation	Efficient and effective use of insulation reduces energy consumption and cost
Higher R-value than standard EPS-based insulated walls	Thinner wall sections
Continuous air and water-resistive barrier	Protects against mold and moisture problems
No fluorocarbon blowing agents (HFC, HCFC, or CFC) used in GPS manufacturing	Low global warming potential and zero ozone depletion potential
Lightweight wall construction	Reduced structural costs

Properties

Weight (not including sheathing and frame)	< 2 psf (10 kg/m ²)
Thickness (insulation)	1-1/16 - 8 inches (27 – 203mm)
R-value (not including sheathing and frame)	5.0 – 37.6 ft ² •h•°F / Btu (0.88 – 6.62m ² •K / W)
Wind Load Resistance	Tested up to +175, -170 lb/ft ² (+8.40, - 8.14 kPa)
Compliance	<ul style="list-style-type: none"> 2021 IBC, IRC, IECC 2022 NYC BC w Fireblocking
Construction Types and Fire Resistance	<ul style="list-style-type: none"> NFPA 285 for use on noncombustible construction ASTM E119 for use on hourly rated walls Refer to ICC ESR-1748 for listed assemblies

Warranty

10, 12, or 15 year Limited Warranty, depending on options selected

Maintenance

Requires periodic cleaning to maintain appearance, repair to 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.

System Bulletin

StoTherm® ci GPS

Decorative cladding with continuous insulation and StoGuard® Air and Water-resistive Barrier combined with Sto high performance finishes. Includes Sto Lamella Fireblocking where required.

Limitations

Minimum insulation board thickness 1-1/16-inch (27 mm). Maximum insulation board thickness 8-in (203mm) if used on noncombustible construction, 6-in (152mm) if used with StoCast finishes on noncombustible construction, 4-in (102mm) if Sto GoldSeal is the AWRB on noncombustible construction.
Fire resistance rated assemblies limited to 6-in (152 mm) maximum insulation board thickness, 4-in (102mm) if StoCast Finishes are used, or if Sto GoldSeal is the AWRB. Refer to ICC ESR-1748.
Do not use on interior walls. A thermal barrier is required (typically minimum 1/2-in [13mm] gypsum wallboard) to separate the insulation board from the interior.
Structural back-up wall must be level to 1/4-in 10-ft (6mm in 3.0m)
Wind load resistance: ± 225 psf (10.7 kPa) ultimate loads achieved (based on testing with EPS). Ultimate wind load resistance depends on sheathing, sheathing attachment, and stiffness of supporting construction. Design for maximum allowable deflection of L/240. Apply appropriate safety factor as required by applicable building code.
Impact resistance: supplemental reinforcing mesh layers, or other design adjustments are recommended for areas adjacent to heavy pedestrian traffic or other areas of high impact or abuse. Refer to Sto Guide Details.
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 6-in (152mm) above grade.
Insulation material is flammable. Keep away from flame, ignition sources, sparks, high heat, and temperatures in excess of 165°F [74° C].
Dark finish colors with LRV (Light Reflectance Value) < 20 are not recommended.
Air Barrier, insulation board, and base coat materials are not intended for prolonged weather exposure. Refer to individual AWRB product bulletins for allowable exposure period.
Refer to specific component product bulletins and packaging for other limitations that may apply involving use, handling, and storage of component materials.

Sustainable Design**Air Quality and VOC Compliance**

All finish coatings, adhesives, and AWRB detail components and coatings meet US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) standard for Building Envelope Coatings: VOC less than 50 g/L.

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

UL ER16529-01, ICC ESR-1748	Sto GPS Board is listed and labeled by UL Solutions, and as a component of StoTherm ci GPS in ICC ESR-1748
ICC ESR-1233, ICC ESR-1748	Sto Gold Coat, Sto AirSeal, and Sto GoldSeal STPE comply with the 2021 IBC, IRC and IECC as air and water-resistive barriers (AWRBs). Each product is qualified for use as the AWRB component of StoTherm ci GPS.
2022 New York City Building Code	StoTherm ci GPS complies with fireblocking requirements of the 2022 NYC BC with Sto Lamella fireblocking
ASHRAE 90.1-2022	StoTherm ci GPS complies with Section 5, Building Envelope, air barrier and continuous insulation requirements
ASTM E2178, ASTM E 2357	Sto Gold Coat, Sto AirSeal, and Sto GoldSeal STPE AWRBs meet material and assembly air leakage resistance criteria
NFPA 285	StoTherm ci GPS meets IBC criteria for use on noncombustible construction with up to 8-in (203mm) of Sto GPS Board, 6-in (152mm) when StoCast Finishes are used, or 4-in (102mm) when Sto GoldSeal is the AWRB
ASTM E 119	StoTherm ci GPS Meets requirements for use over fire-resistance-rated wall assemblies with maximum 6-in (152mm) thick insulation board, 4-in (102mm) when StoCast Finishes are used, or 4-in (102mm) when Sto GoldSeal is the AWRB

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

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Attention

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