

StoTherm ci®

Decorative cladding with continuous insulation and air/water-resistive barrier for heat, air and moisture control



1) Substrate (by others): Glass mat gypsum sheathing in compliance with ASTM C 1177, code compliant OSB or plywood sheathing, concrete or concrete masonry, existing structurally sound, uncoated brick or other masonry wall construction.

2) StoGuard Air & Water-resistive Barrier

3) Sto TurboStick¹, Sto Primer/Adhesive-B, Sto BTS Plus, Sto BTS Xtra, or Sto Primer/Adhesive

4) Sto ProD EPS Insulation Board² or Sto GPS ProD Insulation Board²

5) Sto Mesh (embedded in Sto base coat)

6) Sto Base Coat: Sto Primer/Adhesive-B, Sto BTS Plus, Sto BTS Xtra, or Sto Primer/Adhesive

7) StoPrime Sand (optional)

8) Sto Textured Finish: Stolit Lotusan, Stolit, or Sto Element

1. Sto TurboStick adhesive required with Sto GPS ProD and GPS flat stock insulation boards.

2. Flat stock insulation board only permitted where compliance with OBC Part 9 is NOT required.

System Description

StoTherm ci is a decorative and protective exterior wall cladding that combines superior air leakage resistance and weather protection with excellent thermal performance and durability. It incorporates exterior insulation and a continuous air & water-resistive barrier with Sto's high performance finishes in a fully tested wall cladding assembly.

Uses

StoTherm ci can be used in residential or commercial wall construction where energy efficiency, superior aesthetics, and air and moisture control are essential in the climatic extremes of Canada.

Features

Design versatility

Aesthetic and curb appeal easy to achieve

Continuous exterior insulation

Reduced heating and cooling cost

No mechanical fasteners

Energy efficient

Continuous air and water-resistive barrier

Protects against mold and moisture problems

CCMC listed

Fully tested building code compliant assembly

Properties

Weight

< 10 kg/m² (2 psf)

Allowable insulation thickness

EPS: 51-165 mm (2 -6.5")
GPS: 76-165 mm (3 -6.5")

RSI value (R-value)

EPS: 0.98 – 4.22 m²·K / W
(5.6 – 24.0 ft²·h·°F / Btu)
GPS: 2.48 – 5.38 m²·K / W
(14.1 – 30.5 ft²·h·°F / Btu)

Geometrically defined drainage cavity (GDCC)

Meets OBC Part 9 requirements

Ultimate Wind Load Resistance

Tested up to:
+3640 Pa (76.0 psf),
-3690 Pa (-70.8 psf)

Fire Resistance and Combustibility

Meets requirements of NBC 2020 for use in combustible and non-combustible construction

Warranty

10-year Limited Warranty

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.

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Limitations

Sto GPS ProD and GPS flat stock insulation boards require installation with Sto TurboStick Adhesive.
Minimum EPS insulation board thickness 50 mm (2 inches). Minimum GPS insulation board thickness 76 mm (3 inches). Maximum EPS or GPS insulation board thickness 165 mm (6.5 inches).
Wind load resistance: +3640 Pa (76.0 psf) -3690 (-70.8 psf) ultimate loads achieved. Ultimate wind load resistance also depends on sheathing, sheathing attachment, and stiffness of supporting construction. Design for maximum allowable deflection of L/240.
Impact resistance: supplemental reinforcing mesh layer, cement board overlay or other design adjustments may be prudent for areas adjacent to heavy pedestrian traffic or other areas of high impact or abuse.
For use on vertical above grade walls only. Do not use below grade or on roofs or roof-like surfaces.
Insulation material is flammable. Keep panels away from flame, ignition sources, and high heat [temperatures in excess of 71° C (160°F)].
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. Allow 30 days maximum between application of air barrier and insulation.
Refer to specific component product bulletins and packaging for other limitations that may apply involving use, handling and storage of component materials.

Sustainable Design

Regulatory Compliance and Standards Testing

Ontario Building Code Part 9	Complies with requirements for primary and secondary planes of protection with a 10 mm drainage cavity
CCMC Evaluation Report No. 12416-R	Complies with NBC 2020
Intertek Listing: Design No. STO/WEIFS 15-01	CAN/ULC S101-2013, Meets requirements of Clause 3.2.3.8 (1)(b) of the NBC 2020 for use on fire resistance rated walls (with some height and set-back limitations)
Intertek Listing: Design Nos. STO/WEIFS 25-01 & 25-02	CAN/ULC S134-13, Meets requirements of Article 3.1.5.5 of the NBC 2020 for use on noncombustible construction
ULC – S716.1	Complies with ULC – 716.1 Standard for Exterior Insulation and Finish Systems (EIFS) – Materials and Systems. Refer to CCMC 12416-R evaluation for compliant materials and assemblies.

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