

# StoTherm ci<sup>®</sup>

Decorative cladding with continuous exterior insulation and air/moisture 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 and Moisture Barrier

**3)** Sto TurboStick<sup>1</sup>, Sto Primer/Adhesive-B, Sto BTS Plus, Sto BTS Xtra, or Sto Primer/Adhesive

**4)** Sto EPS ProD Insulation Board<sup>2</sup> or Sto GPS ProD Insulation Board<sup>2</sup>

**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)** Sto Primer Sand (optional)

**8)** Sto Textured Finish: Stolit Lotusan, Stolit, or Sto Essence DPR

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

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

3. Sto Primer/Adhesive not listed for fire-resistance rated walls.

## System Description

StoTherm ci is a decorative and protective exterior wall cladding that combines superior air and weather tightness with excellent thermal performance and durability. It incorporates exterior insulation and a continuous air/moisture 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

## Benefits

Aesthetic and curb appeal easy to achieve

### Continuous exterior insulation

Reduced heating and cooling cost

### No mechanical fasteners

Energy efficient

### Continuous air and moisture barrier

Protects against mold and moisture problems

### CCMC listed

Fully tested building code compliant assembly

## Properties

### Weight

< 10 kg/m<sup>2</sup> (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 m<sup>2</sup>·K / W  
(5.6 – 24.0 ft<sup>2</sup>·h·°F / Btu)  
GPS: 2.48 – 5.38 m<sup>2</sup>·K / W  
(14.1 – 30.5 ft<sup>2</sup>·h·°F / Btu)

### Geometrically defined drainage cavity (GDCC)

Meets OBC Part 9 requirements

### Wind Load Resistance

Tested up to ± 8.60 kPa (180 psf)

### Fire Resistance and Combustibility

Meets requirements of NBC 2015 for use on noncombustible and fire resistance rated walls

## 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 38 mm (1.5 inches). Minimum GPS insulation board thickness 76 mm (3 inches). Maximum EPS or GPS insulation board thickness 165 mm (6.5 inches).
Fire resistance-rated walls limited to non-load bearing walls with Sto Primer/Adhesive-B, Sto BTS Plus, or Sto BTS Xtra base coats. Some height and set-back limitations may also apply (NBC Table 3.2.3.7).
Wind load resistance: $\pm 8.60$ kPa (180 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

<b>Ontario Building Code Part 9</b>	Complies with requirements for primary and secondary planes of protection with a 10 mm drainage cavity
<b>CCMC Evaluation Report No. 12416-R</b>	Complies with NBC 2010
<b>Intertek Listing: Design No. STO/WEIFS 15-01</b>	CAN/ULC S101-2013, Meets requirements of Clause 3.2.3.8 (1)(b) of the NBC 2010 for use on non-load bearing fire resistance rated walls (with some height and set-back limitations)
<b>Intertek Listing: Design Nos. STO/WEIFS 25-01/25-02</b>	CAN/ULC S134-92&07, Meets requirements of Article 3.1.5.5 of the NBC 2010 for use on noncombustible construction
<b>ULC – S716.1</b>	Complies with ULC – 716.1 Standard for Exterior Insulation and Finish Systems (EIFS) – Materials and Systems

<p><b>Sto Canada Ltd.</b> 1821 Albion Road Unit 1 - 2 Etobicoke, Ontario M9W 5W8</p> <p>Tel: 416-855-0460 Toll Free: 1-800-221-2397 Fax: 404 346-3119</p> <p><b>stocorp.ca</b></p>	<p><b>SB-CA-5400E</b> Revision: 002 Date: 09/2018</p>	<p style="text-align: center;"><b>Attention</b></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 Canada Ltd. 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. <b>STO CANADA LTD. 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.</b> 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 Canada Ltd. website, <a href="http://www.stocorp.ca">www.stocorp.ca</a>.</p>
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