

# StoTherm<sup>®</sup> ci Mineral

Decorative cladding with continuous noncombustible exterior insulation and air/moisture barrier for thermal, 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<sup>®</sup> Air and Moisture Barrier

**3)** StoDrainScreen<sup>1</sup> 10mm

**4)** Stone Wool Insulation:  
Option 1: Slab (attached with fasteners<sup>2</sup>)  
Option 2: Lamellas (attached with adhesive)

**5)** Sto Reinforcing Mesh (embedded in Sto base coat)

**6)** Sto BTS Xtra or Sto BTS Plus Base Coat

**7)** Sto Primer Sand (optional)

**8)** Sto Textured Finish: Stolit Lotusan, Stolit or Stolit X

1. Drainage medium may be omitted if permitted by the Design Professional or AHJ (Authority Having Jurisdiction)

2. Fastening pattern differs with design wind pressure requirements. Refer to Sto Specifications and Details.

## System Description

StoTherm ci Mineral is a decorative and protective exterior wall cladding that combines superior air and weather tightness with excellent thermal performance and durability. It incorporates noncombustible exterior insulation and a continuous air/moisture barrier with Sto's high performance finishes in a fire-resistive wall cladding assembly.

## Uses

StoTherm ci Mineral 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

**Water Vapor Permeable**

Promotes drying to the exterior

**Continuous air and moisture barrier**

Protects against mold and moisture problems

## Properties

**Weight**

< 10 kg/m<sup>2</sup> (2 psf)

**Thickness**

50 - 100 mm  
(2 to 4 inches)

**RSI value  
(R-value)**

1.41 – 2.82 m<sup>2</sup>·K / W  
(8.0 – 16 ft<sup>2</sup>·h·°F / Btu)

**Ultimate Wind Load Resistance**

-4500 Pa (-94 psf)

**Noncombustible, fire resistant insulation**

Meets requirements for use on all types of 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

Minimum insulation board thickness 50 mm (2 inches). Maximum insulation board thickness 100 mm (4 inches).

Wind load resistance: Design for maximum allowable deflection of L/240. Ultimate wind load resistance -4500 Pa (-94 psf). Verify conformance with building code design wind pressure requirements or test to verify acceptable performance.

Fasteners may "telegraph" through the finished wall surface as the building ages because of the inherent thermal bridging effects of mechanical fasteners.

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 not intended for prolonged exposure to water. Store stone wool insulation in a well-ventilated unheated room or in an open area covered with a tarpaulin. Prevent exposure to water (rain or snow), direct heat or sun.

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>CAN/ULC S702</b>	Insulation conforms to Standard for Mineral Fibre Thermal Insulation for Buildings
<b>CAN/ULC S716.1 Annex H</b>	System wind load resistance conforms to minimum requirement set forth by NBC Canada
<b>CAN/ULC S114</b>	Insulation and base coat materials noncombustible
<b>CAN/ULC S101</b>	Meets all occupancy and setback requirements of NBC 2015 (Table 3.2.3.7)

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### Attention

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. **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.** 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, [www.stocorp.ca](http://www.stocorp.ca).