## StoTherm® ci Classic
Decorative cladding with continuous insulation and continuous air/moisture barrier for heat, air and moisture control

### System Description
StoTherm ci Classic 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 a continuous air/moisture barrier with Sto’s high performance finishes in a fully tested wall cladding assembly.

### Uses
StoTherm ci Classic 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.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>Design versatility</td>
<td>Aesthetic and curb appeal easy to achieve</td>
</tr>
<tr>
<td>Continuous exterior insulation, no mechanical fasteners</td>
<td>Energy efficient, reduced heating and cooling costs</td>
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<tr>
<td>Lightweight</td>
<td>Reduced structural costs</td>
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<tr>
<td>Continuous air and moisture barrier</td>
<td>Protects against mold and moisture problems</td>
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<tr>
<td>ICC-ES listed and evaluated</td>
<td>Fully tested building code compliant assembly</td>
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### Properties
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (not including sheathing and frame)</td>
<td>&lt; 2 psf (10 kg/m²)</td>
</tr>
<tr>
<td>Thickness (insulation)</td>
<td>1 to 12 inches (25 – 305 mm)</td>
</tr>
<tr>
<td>R-value (not including sheathing and frame)</td>
<td>3.6 – 43.2 ft²·h·°F / Btu (0.63 – 7.60 m²·K / W)</td>
</tr>
<tr>
<td>Wind Load Resistance</td>
<td>Tested up to + 188 psf (9.00 kPa)</td>
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</table>

### Compliance
- ASHRAE 90.1-2010

### Construction Types and Fire Resistance
- I-V, NFPA 285
tested for types I-IV
- ASTM E 119 tested for 1&2 hour walls

### Warranty
12 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.

### Substrate: Glass Mat Gypsum sheathing in compliance with ASTM C 1177, Exterior or Exposure I wood-based sheathing (plywood or OSB), code compliant concrete, concrete masonry or portland cement plaster, existing structurally sound, uncoated brick or other masonry wall construction.

1) StoGuard™ Air and Moisture Barrier
2) Three adhesive options: Sto TurboStick™, Sto BTS® Plus, or Sto BTS Xtra
3) Sto EPS Insulation Board
4) Sto Mesh (embedded in Sto base coat)
5) Three base coat options: Sto BTS Plus, Sto BTS Xtra, or Sto RFP
6) StoPrime Sand (optional)
7) Sto Textured Finish: Stolit™ or Stolit™ X
StoTherm® ci Classic
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Limitations

Minimum insulation board thickness 1 inch (25 mm). Maximum insulation board thickness 12 inches (305 mm).

Fire resistance rated assemblies limited to 4 inch (102 mm) maximum insulation board thickness and non-load bearing steel frame.

Wind load resistance: ≤ 188 psf (9.00 kPa) 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 layers, 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. Refer to Sto Guide Details.

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 away from flame, ignition sources, 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. Allow 30 days maximum between application of air/moisture barrier and insulation board.

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, air barrier joint treatments and coatings meet US EPA (40 CFR 59) and SCAQMD (Rule 1113) emission standards for architectural coatings.

LEED Credit Eligibility

- Energy and Atmosphere (EA)
- Materials and Resources (MR)
- Innovation in Design (IA)

Regulatory Compliance and Standards Testing

| ICC ESR No. 1748 covering StoTherm NExT Systems | Complies with 2009, 2012 IBC and IRC |
| ICC ESR No. 1233 covering StoGuard Air & Moisture Barrier | Complies with 2006, 2009, 2012 IBC, IRC and IECC |
| ASHRAE 90.1-2010 | Complies with Section 5, Building Envelope, air barrier and continuous insulation requirements |
| ASTM E 2357 | Air/Moisture barrier meets air leakage resistance criteria of ≤ 0.04 cfm/ft² at 1.57 psf (0.2 L/s•m² at 75 Pa) |
| NFPA 285 | Meets flame propagation criteria for use on Types I, II, III, IV construction with up to 12 inches (305 mm) of Sto EPS insulation board |
| ASTM E 119 | Meets requirements for 1 or 2 hour rating over non load-bearing fire-resistance-rated steel frame construction, does not change the rating over selected combustible exterior fire-resistance-rated assemblies (refer to ICC ESR 1748) |


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