System Bulletin

StoQuik® Silver DrainScreen™
Impact resistant decorative and protective cladding with advanced cavity wall design, and fluid applied air and moisture barrier

Substrate: Glass mat gypsum sheathing in compliance with ASTM C 1177, Exterior or Exposure 1 wood-based sheathing (plywood or OSB).

1) Substrate
2) StoGuard™ Air and Moisture Barrier
3) Sto DrainScreen™ Drainage Mat
4) PermaBase™ Brand Cement Board
5) StoGuard Mesh Joint Reinforcement (skim coated with Sto base coat)
6) Sto Mesh (embedded in Sto Base Coat)
7) Two base coat options: Sto Primer/Adhesive-B or Sto BTS® Xtra
8) Sto Primer Sand (optional)
9) Three textured finish options: Stolit®, Lotusan®, Stolit®, or Sto Essence DPR

System Description
StoQuik Silver DrainScreen is a decorative and protective wall cladding assembly with advanced cavity wall design and fluid applied air and moisture barrier for superior moisture protection. Sto's high performance finishes applied over cement board provide handsome aesthetics and a durable exterior skin.

Features
Hard surfaced exterior skin
Benefits
Resist damage from impact and abuse
Installs quickly
Benefits
Reduced down time, early occupancy
Cavity wall design with air/moisture barrier
Benefits
Protects against mold and moisture problems
Wide range of finish colors and textures
Benefits
Aesthetic and curb appeal easy to achieve
Fully tested, building code compliant
Benefits
Peace of mind

Properties
Cladding Weight
< 4 psf (20 kg/m²)
Assembly Thickness (from exterior sheathing face)
Nominal 7/8 inches (22 mm)
R-value
Based on stud cavity insulation
Cladding Wind Load Resistance
Tested to: + 166, -94 psf (+7.94, - 4.50 kPA)
Air Leakage (air barrier component)
< 0.004 cfm/ft² at 1.57 psf
Construction Types, Fire-Resistance
- NFPA 285 for types I – IV construction
- ASTM E119 for hourly ratings

Warranty
10 year Limited Warranty on Sto products

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.
### StoQuik® Silver DrainScreen™

Impact resistant decorative and protective cladding with advanced cavity wall design, and fluid applied air and moisture barrier

### Limitations

<table>
<thead>
<tr>
<th>Limitation</th>
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<tbody>
<tr>
<td>Minor surface cracking at joints can become visible in the finished exterior surface.</td>
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<tr>
<td>Wind load resistance: +7.94, -4.5 kPa (+166, -94 psf) ultimate loads achieved. Ultimate wind load resistance also depends on sheathing, sheathing attachment, and stiffness of supporting construction. Design for maximum</td>
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<tr>
<td>The system is recommended for low-rise residential and commercial wall construction (4 stories or less), except in cases where testing, analysis, mock-ups, or other information demonstrates satisfactory aesthetics and structural performance.</td>
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<td>Fire-Resistance-Rated Construction: where an hourly fire-resistance rating is required consult ICC ESR 1510 and provide analysis of the final proposed wall assembly to verify rating is met.</td>
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<td>Planar irregularities/waviness may be visible in finished wall surface if supporting frame work is out of plane. Heavy texture finishes (&gt; 1.5 mm) and/or two coats of base coat will minimize these effects.</td>
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<td>For use on vertical above grade walls only. Do not use below grade or on roofs or roof-like surfaces.</td>
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<td>Joints are required, including at intervals in the field of the wall to accommodate thermal movement.</td>
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<td>Light finish colors (LRV &gt; 30) are recommended to minimize thermal stress.</td>
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<td>Air Barrier, insulation board, and drainage mat are not intended for prolonged weather exposure. Refer to Product Bulletins.</td>
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<tr>
<td>Refer to specific component product bulletins and packaging for other limitations that may apply involving use, handling and storage of component materials.</td>
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### Sustainable Design

#### Air Quality and VOC Compliance

All finish coatings, 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

<table>
<thead>
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<th>Standard</th>
<th>Requirement</th>
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<tr>
<td>ICC ESR No. 2536 covering StoQuik Silver Systems</td>
<td>Complies with 2006 and 2009 IBC and IRC</td>
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<tr>
<td>ICC ESR No. 1233 covering StoGuard Air &amp; Moisture Barrier</td>
<td>Complies with 2006, 2009, 2012 IBC, IRC and IECC</td>
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<tr>
<td>ASHRAE 90.1-2010^1</td>
<td>Complies with Section 5, Building Envelope, air barrier and continuous insulation requirements</td>
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<td>ASTM E 2357^2</td>
<td>Air/Moisture barrier meets air leakage resistance criteria of ( \leq 0.04 \text{ cfm/ft}^2 ) at 1.57 psf (0.2 L/s·m²) at 75 Pa</td>
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<td>NFPA 285^3</td>
<td>Meets flame propagation criteria for use on Types I, II, III, IV construction</td>
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<tr>
<td>ASTM E 119^4</td>
<td>Capable of meeting requirements for 1 or 2 hour rating over non load-bearing steel frame construction</td>
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For fullest and most complete information refer to Sto guide Specifications and Details at [www.stocorp.com](http://www.stocorp.com)