System Bulletin

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

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.

Uses

StoQuik Silver DrainScreen 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 North America.

Features

<table>
<thead>
<tr>
<th>Hard surfaced exterior skin</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installing quickly</td>
<td>Reduced down time, early occupancy</td>
</tr>
<tr>
<td>Cavity wall design with air/moisture barrier</td>
<td>Protects against mold and moisture problems</td>
</tr>
<tr>
<td>Wide range of finish colors and textures</td>
<td>Aesthetic and curb appeal easy to achieve</td>
</tr>
<tr>
<td>Fully tested, building code compliant</td>
<td>Peace of mind</td>
</tr>
</tbody>
</table>

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

Miner surface cracking at joints can become visible in the finished exterior surface.

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 allowable deflection of L/360.

The system is generally recommended for low-rise residential and commercial wall construction (4 stories or less). In some cases such as balcony infill walls the system may be used on taller buildings. See wind load data and verify conformance with project design wind pressure requirements. Always construct a mock-up to verify design details, aesthetics, and test to verify performance as deemed by design professional.

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.

Planar irregularities/waviness may be visible in finished wall surface if supporting frame work is out of plane. Heavy texture finishes (> 1.5 mm) and/or two coats of base coat will minimize these effects.

For use on vertical above grade walls only. Do not use below grade or on roofs or roof-like surfaces.

Joints are required, including at intervals in the field of the wall to accommodate thermal movement.

Light finish colors (LRV > 30) are recommended to minimize thermal stress.

Air Barrier, insulation board, and drainage mat are not intended for prolonged weather exposure. Refer to Product Bulletins.

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, 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. 2536 covering StoQuik Silver Systems | Complies with 2006 and 2009 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 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 |
| ASTM E 119 | Capable of meeting requirements for 1 or 2 hour rating over non load-bearing steel frame construction |


For fullest and most complete information refer to Sto guide Specifications and Details at www.stocorp.com