

# StoQuik<sup>®</sup> Silver DrainScreen<sup>™</sup>

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 <sup>®</sup> Air and Moisture Barrier
3)	Sto DrainScreen <sup>™</sup> Drainage Mat
4)	PermaBase <sup>®</sup> 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 <sup>®</sup> Xtra
8)	Sto Primer Sand (optional)
9)	Three textured finish options: Stolit <sup>®</sup> , Lotusan <sup>®</sup> , Stolit <sup>®</sup> , 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.	
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	Benefits
Hard surfaced exterior skin	Resist damage from Impact and abuse
Installs quickly	Reduced down time, early occupancy
Cavity wall design with air/moisture barrier	Protects against mold and moisture problems
Wide range of finish colors and textures	Aesthetic and curb appeal easy to achieve
Fully tested, building code compliant	Peace of mind
Properties	
Cladding Weight	< 4 psf (20 kg/m <sup>2</sup> )
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/ft <sup>2</sup> at 1.57 psf
Construction Types, Fire-Resistance	<ul style="list-style-type: none"> <li>NFPA 285 for types I – IV construction</li> <li>ASTM E119 for hourly ratings</li> </ul>
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.	

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Limitations	
Minor 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 ( $\geq 1.5$ 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 $\geq 30$ ) 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	
<ul style="list-style-type: none"> <li>• Energy and Atmosphere (EA)</li> <li>• Materials and Resources (MR)</li> <li>• Innovation in Design (IA)</li> </ul>	
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 <sup>1</sup>	Complies with Section 5, Building Envelope, air barrier requirements
ASTM E 2357 <sup>2</sup>	Air/Moisture barrier meets air leakage resistance criteria of $\leq 0.04$ cfm/ft <sup>2</sup> at 1.57 psf (0.2 L/s•m <sup>2</sup> at 75 Pa)
NFPA 285 <sup>3</sup>	Meets flame propagation criteria for use on Types I, II, III, IV construction
ASTM E 119 <sup>4</sup>	Capable of meeting requirements for 1 or 2 hour rating over non load-bearing steel frame construction

1. Energy Standard for Buildings Except Low-Rise Residential Buildings

2. Standard Test Method for Determining Air Leakage of Air Barrier Assemblies

3. Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components

4. Standard Test Methods for Fire Test of Building Construction and Materials

For fullest and most complete information refer to Sto guide Specifications and Details at [www.stocorp.com](http://www.stocorp.com)

<p><b>Sto Corp.</b> 3800 Camp Creek Parkway Building 1400, Suite 120 Atlanta, GA 30331</p> <p>Tel: 404-346-3666 Toll Free: 1-800-221-2397 Fax: 404 346-3119</p> <p><a href="http://www.stocorp.com">www.stocorp.com</a></p>	<p><b>SB-QS200D</b> Revision: 002 Date: 05/2018</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 Corp. 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 CORP. 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 Corp. website, <a href="http://www.stocorp.com">www.stocorp.com</a>.</p>
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