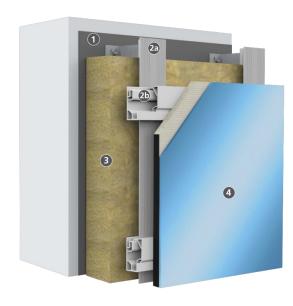


StoVentec Glass

Rainscreen wall system with opaque glass cladding, continuous insulation and continuous air and moisture barrier



Structural Back-up Wall (by others): Steel or wood frame with glass mat gypsum sheathing in compliance with ASTM C1177, code compliant OSB or plywood sheathing, concrete or concrete masonry, existing structurally sound, uncoated brick or other masonry wall construction.

1)	Air and Moisture Barrier: StoGuard®
2)	Sub-construction: Sto Stainless Steel Brackets, Sto Alumunum T-Profiles (2a), Sto Aluminum Agraffe Rails (2b), and Sto connecting screws and pins
3)	Insulation: Owens Corning Thermafiber® RainBarrier 45
4)	Pre-fabricated Wall Panel: StoVentec Glass Panel

System Description

StoVentec Glass is an open joint ventilated rainscreen wall system from a single source that combines superior air and weather tightness with excellent thermal performance and fire protection. It incorporates noncombustible continuous exterior insulation and a continuous air and moisture barrier with Sto's rainscreen sub-structure and opaque glass panel to produce an advanced high performance wall assembly.

Uses

StoVentec Glass can be used in residential or commercial wall construction.

Features	Benefits		
Open joint ventilated	Excellent moisture control		
rainscreen wall design	00111101		
High density mineral wool insulation	Continuous noncombustible exterior		
wool insulation	thermal control layer		
Fully integrated	Compatible air, water,		
seamless air and	and vapor control layer		
moisture barrier	from a single source		
Multiple opaque glass	Elegant and attractive		
color options without	exterior wall cladding		
visible attachments			
Fire tested in	Can be used on all types		
accordance with NFPA	of construction without		
285	height limitation ¹		
Properties			
Weight (not including	8.4 lb/ft ² (41 kg/m ²)		
structural back-up wall)			
Insulation	Noncombustible, 0 flame		
combustibility, flame	spread, 0 smoke		
spread	development		
Insulation RSI value per	4.3 ft ² •h•°F / Btu		
inch (R-value)	(0.758 m ² •K / W)		
Pre-fabricated Glass	Toughened safety glass,		
panels	full surface bonded to a		
	carrier board made of		
	recycled, expanded glass		
	granulate		
M/			

Warranty

Ten year limited warranty

Maintenance

May require cleaning of glass to maintain appearance. Sealants and other façade components must be maintained to prevent water infiltration into or behind the system.

1. Some height restrictions apply based on ultimate wind load resistance of the system (see page 2)



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Precautions and Limitations

Not for use on horizontal or low slope surfaces, below grade, roofs or roof-like surfaces, or in areas of water immersion, pooling or ponding water. For use on vertical above grade walls and ceilings only.

Structural back-up wall must be level to within 1/4 inch in 10 ft (6 mm in 3.0 m)

Pull-out or withdrawal capacity of fasteners into structural wall must be sufficient to resist negative wind loads (with appropriate safety factor as required by applicable building code).

Wind load resistance: structural back-up wall construction must be designed for maximum allowable deflection of L/360, normal to the plane of the wall. Stud spacing: 16 inches (400 mm) on center maximum. Ultimate wind load resistance: \pm 100 lb/ft² (4.78 kN/m²). Refer to Sto Application Guide for sub-construction details to achieve ultimate loads.

Insulation board thickness: 2-4 inches (50-100 mm). Thicker insulation permitted with special design and engineering analysis by design professional.

Cavity depth: 3/4- 2-3/8 inches (19-60) mm. Greater cavity depth permitted for combustible construction and with special design and engineering analysis by design professional.

Minimum glass panel size: 4 x 12 inches (10 x 30 cm)

Maximum glass panel height (or width): 9 ft - 2-1/4 inches (< 2.8 m) with $\frac{1}{2}$ inch (6mm) toughened standard glass, 14 ft - 9 inches (14.5 m) with 5/16 inch (8 mm) toughened standard glass. Dimensional limits apply in opposing direction. Refer to Sto Application Guide

Joint width between glass panels: 15/16 - 15/32 inch (5-12 mm)

Aesthetics: opaque glass color tolerance from approved sample between individual panels and subsequent deliveries: $\Delta E < 2.9$ in accordance with CIELAB color system when viewed at a distance of 9 ft – 10 in (3 m).

Refer to specific component product bulletins and packaging for other limitations that apply on use, handling and storage of component materials.

Sustainable Design				
Regulatory Compliance and Standards Testing				
IECC, ASTM E2178	Air barrier component complies with 2015 and 2018 IECC Section C402.5 as an air barrier material			
ASTM C612	Insulation conforms to applicable standard for board thermal insulation			
NFPA 220	Insulation complies with criteria for non-combustibility			
ASTM E84	Insulation has 0 flame spread, 0 smoke development			
NFPA 285	System meets requirements for use on all types of construction without height limitation (other than height restrictions imposed by ultimate wind load resistance)			
AAMA 509	System achieved W1 water penetration rating and V2 ventilation rating			
ASTM E330	System tested up to -100 lb/ft² (-4.78 kN/m²) without failure			
IBC, IRC, ASTM E 2570	System WRB conforms with requirements of 2015 IBC Section 1408, 2018 IBC Section 1407, and 2015 and 2018 IRC Section R703.9.2			
IECC	System meets requirements for continuous insulation and ci R-value requirements for above grade walls of 2015 and 2018 IECC Section 402.2, and contributes to U-value for above grade walls when figuring compliance on the basis of U-factor			
Listings/Approvals	NFPA 285 certification listing by Intertek: Design No. Sto/CWP 30-01			

3800 Camp Creek	SB_9000G Revision: 001 Date: 01/2020	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 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 on 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 WARRANTYES 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.com
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