

# StoVentec® Render

Rainscreen wall system with textured finish, continuous insulation and continuous air and water-resistive 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 core filled concrete masonry, existing structurally sound, uncoated brick or other masonry wall construction.

1)	Air and Water-Resistive Barrier: Sto AirSeal® (alt. options: Sto Gold Coat, VaporSeal®, GoldSeal STPE, StoShield SA VP, or SA NP)
2)	Sub-construction: StoVentro™ Bracket, StoVentro™ T-Profile
3)	Thermal Insulation: Rockwool Cavityrock® (optional: needed for NFPA 285 compliance)
4)	Carrier Board: StoVentec® Carrier Board with recycled glass granulate and double sided glass fiber mesh reinforcement
5)	<p>Architectural Finish System: Sto Render</p> <ul style="list-style-type: none"> <li>Base Coat: Sto Armat Classic plus</li> <li>Reinforcement: Sto Mesh 6 oz</li> <li>Textured Finish: Stolit (or other approved Sto textured finish)</li> </ul> <p>Architectural Finish System: StoCast Brick or Wood</p> <ul style="list-style-type: none"> <li>Base Coat: Sto Armat Classic plus</li> <li>Reinforcement: Sto Mesh 6 oz</li> <li>StoCast Brick + StoCast Bonding &amp; Pointing Mortar</li> <li>StoCast Wood + StoCast Wood Adhesive and Sto Top coat</li> </ul>

## System Description

StoVentec Render is a drained and back-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 water-resistive barrier with StoVentro™ Sub-construction and Sto finish systems to produce an advanced high performance wall assembly.

## Uses

StoVentec Render can be used on interior or exterior residential, commercial, and institutional wall construction.

Features	Benefits
<b>Drained and back-ventilated rainscreen wall design</b>	Excellent moisture control
<b>High density mineral wool insulation</b>	Continuous noncombustible exterior thermal control layer
<b>Fully integrated seamless air and water-resistive barrier</b>	Compatible air, water, and vapor control layer from a single source
<b>Virtually unlimited finish color selection in multiple textures</b>	Color and texture design freedom
<b>Fire tested in accordance with NFPA 285</b>	Min. 2 in. thick mineral wool required. Can be used on all types of construction without height limitation <sup>1</sup>

## Properties

<b>Weight (Variable based on cavity depth, does not include backup wall)</b>	≈ 3.89 to ≈ 4.96 lb./ft <sup>2</sup> ≈ 18.98 to ≈ 24.24 kg/m <sup>2</sup>
<b>Insulation combustibility, flame spread</b>	Noncombustible, 0 flame spread, 0 smoke development
<b>Insulation RSI value (R-value)</b>	0.74 m <sup>2</sup> •K / W per 25mm (~4.3 ft <sup>2</sup> •h•°F / Btu per in)
<b>Finish system</b>	Wind, weather, and crack-resistant integrally colored textured finish on reinforced base coat

## Warranty

Ten year limited warranty

## Maintenance

Requires periodic cleaning of finish and recoating 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 only.
Structural back-up wall must be level to within 6 mm in 3.0 m (~¼ inch in 10 ft)
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: 406 mm (~16 inches) on center maximum. Refer to Sto Design Guide and Detail Booklet for wind load ratings.
Insulation board thickness: (Standard) 51- 178mm (~2-7 inches). Thicker insulation board available by custom order and with special design and engineering analysis by qualified design professional. Minimum 2 inch thick mineral wool with minimum density 3.5 lb/ft³ (72 kg/m³) is required for compliance with NFPA 285. Otherwise, exterior insulation is optional.
Ventilation cavity depth: 20-50 mm (~13/16 - 2 inches).
Maximum span without joints: 25m (~82 feet), length to height ratio not in excess of 2.5:1. Joint width between spans: 20mm max joint (13/16 inch). Refer to Sto Design Guide and Detail Booklet for other joint requirements and locations.
Aesthetics: no color restrictions apply. When using dark colors (LRV < 50) decrease span between joints to accommodate thermal expansion and contraction. Decrease joint spacing as needed to accommodate render application in discrete panels and to avoid cold joints. Refer to Sto Tech Hotline 0893-EC for helpful tips on selection of colors and fade resistance.
Refer to specific component product bulletins and packaging for other limitations that apply on use, handling and storage of component materials.

## Sustainable Design

<b>Recycled content</b>	Carrier Board is comprised of 90+% post-consumer recycled glass
<b>Regulatory Compliance and Standards Testing</b>	
<b>IECC, ASTM E2178</b>	Air barrier component complies with 2018 and 2021 IECC Section C402.5 as an air barrier material
<b>ASTM C612</b>	Insulation conforms to applicable standard for board thermal insulation
<b>NFPA 220</b>	Insulation complies with criteria for non-combustibility
<b>ASTM E84</b>	Insulation has 0 flame spread, 0 smoke development
<b>NFPA 285</b>	System meets requirements for use on all types of construction without height limitation (other than height restrictions based on wind load resistance)
<b>AAMA 509</b>	System achieved W1 water penetration rating and V9 ventilation rating
<b>ASTM E330</b>	System tested up to -7.66 kN/m² (-160 lb/ft²) without failure
<b>ASTM E 2568</b>	Finish system conforms with Table 1 performance criteria for weathering, freeze/thaw resistance, salt spray resistance, adhesion, water penetration resistance, and water resistance
<b>IBC, IRC</b>	System WRB conforms with requirements of 2021, 2018, and 2015 IBC and IRC. See ICC-ESR 1233.
<b>IECC</b>	System meets requirements for continuous insulation and ci R-value requirements for above grade walls of 2018 and 2021 IECC Section 402.2, and contributes to U-value for above grade walls when figuring compliance based on U-factor
<b>Listings/Approvals</b>	NFPA 285 certification listing by Intertek: Design No. Sto/CWP 30-02 General code evaluation of Render system: Intertek Code Compliance Research Report 0454 Miami-Dade NOA No. 25-0610.02

<b>Sto Corp.</b> 3800 Camp Creek Parkway Building 1400, Suite 120 Atlanta, GA 30331  Tel: 404-346-3666 Toll Free: 1-800-221-2397 Fax: 404 346-3119  <b>www.stocorp.com</b>	<b>SB_9000R</b> Revision: 008 Date: 2/2026	<b>Attention</b>  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>
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