MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Sto Corporation
3800 Camp Creek Parkway Bldg. 1400 Suite 120
Atlanta, GA 30331

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: StoVentec Glass Composite Rainscreen Wall System

APPROVAL DOCUMENT: Drawing No. **2019-6412 (E)**, titled "StoVentec Glass Rainscreen System Installation Details", sheets 1 through 8 of 8, dated 08/26/2022, prepared by Sto Corporation, signed and sealed by William R. Heiden III, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein. Components of this product come in different size buckets or drums. Each container needs to be labeled. Unit is further defined as each individual board of insulation and roll of reinforcing mesh.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

Sto Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **2019-6412 (E)**, titled "StoVentec Glass Rainscreen System Installation Details", sheets 1 through 8 of 8, dated 08/26/2022, prepared by Sto Corporation, signed and sealed by William R. Heiden III, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of StoVentec Glass System installed over 5/8" Plywood Sheathing, prepared by Progressive Engineering Inc, Test Report No. **2019-6412(E)**, dated 12/10/2021, signed and sealed by Carl D. Fussner, P.E.

C. CALCULATIONS

1. Anchoring calculation, prepared by William R. Heiden III, P.E., dated 04/29/2022, signed and sealed by William R. Heiden III, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement of code conformance to the 7th Edition (2020) of the FBC and of no financial interest, issued by William R. Heiden III, P.E., dated 04/29/2022, signed and sealed by William R. Heiden III, P.E.

2. Distributor agreement dated 10/05/2021.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 22-0606.05
Expiration Date: December 1, 2027
Approval Date: December 1, 2022

Description

1.1 Substrates and Sto products approved with the system

1.1.1. 5/8" 5-Ply plywood sheathing over steel 6" 18ga studs @ 16" O.C. w/ 6" 18ga steel track. 5/8" 5-Ply plywood sheathing fastened to the steel studs with #10 x 1-7/16" Wafer Head, Drill Point, Phillips, corrosion resistant fastener @ 6" O.C. in field and perimeter, inset 3/8" from panel edge or fastening per engineer and/or architect or record.

1.1.2. All substrates approved under this Notice of Acceptance shall be designed by a Florida Professional Engineer or Registered Architect according to the current Florida Building Code and supplements. Provisions for diaphragm action are necessary for gypsum wall substrate and the deflection shall be limited to L/360 on all cases.

1.2 Components of the System/Application

1.2.1. Sto AirSeal® - A fluid-applied vapor permeable air and moisture barrier for use behind StoVentec RainScreen. Material applied to plywood sheathing by roller in 2 coats or by spray in 1 or 2 coats to achieve minimum 30 mil DFT and a void and pinhole free surface.

1.2.2. StoVentro ALUM Brackets (GP) and (FP) are installed with (2) SFS 1/4-14 Bi-Met 300 w/washer Subframe Attachment Hex Head Self Drilling Screws, or similar of equal or greater capacity, per bracket into 18ga metal studs. One (1) Simpson Strong Tie Titan HD Concrete Screws 3/8" x 3" per bracket into concrete/cmu, or similar of equal or greater capacity.

1.2.3. Nail Plates or stick pins are glued to plywood sheathing with PL-Premium 8x to hold the mineral wool in position.

1.2.4. Owen's Corning 2" minimum Thermafiber Rainbarrier 45 Mineral Wool Insulation installed horizontal in a running bond pattern or vertically between T-Profiles in a running bond pattern, by pressing into nail plates or stick pins.

1.2.5. StoVentro™ T-Profiles are installed into brackets, and secured with two (2) StoVentro Sub-construction screws 5.5mm x 19mm or 5.5mm x 22mm, per bracket.

1.2.6. StoVentec® Agraffe Profiles are field-installed onto T-Profiles and fastened with two (2) StoVentro Sub-construction screws 5.5mm x 19mm or 5.5mm x 22mm, at each T-Profile. Carrier Profiles, which are pre-attached to the StoVentec Glass Panel Assemblies, join with the field-installed agraffe profiles.

1.2.7. Install StoVentec Glass Panel Assembly by interlocking the horizontal carrier profiles attached to the backside of the glass panels with the horizontal StoVentec agraffe profiles on the sub-construction.

General Notes

1) This system has been designed in accordance with the current Florida Building Code and the latest supplement(s) for use in High Velocity Hurricane Zones (HVHZ).

2) This system has been tested in accordance with the Florida Building Code Test Protocols TAS-202 and TAS-203 Air, Water, Structural, and Cyclic Testing. The structural wall assembly shall meet the Florida Building Code for Large Missile Impact.

3) This system shall be installed by a qualified contractor following the recommendations of Sto Corp, this notice of acceptance and the applicable sections of the Florida Building Code.

4) The engineer and/or architect of record for each project using this system shall size all stud framing to ensure conformance with stud deflection and stress limitations as required by governing codes and this document.

5) All studs used with this system shall be completely sheathed at the interior flange or bridged at maximum every 5 ft. of stud length or as specified by stud manufacturer.

6) All steel studs shall be structural with min 1-5/8" min. flange width and have minimum yield strength of 50,000 PSI.

7) Details on sheet No. 3, 4, 5, 6, 7 and 8 are typical and show intent to prevent water infiltration into and behind the system. Alternate detailing and specific conditions not covered by the typical details are the responsibility of the licensed design professional in consultation with Sto Corp.

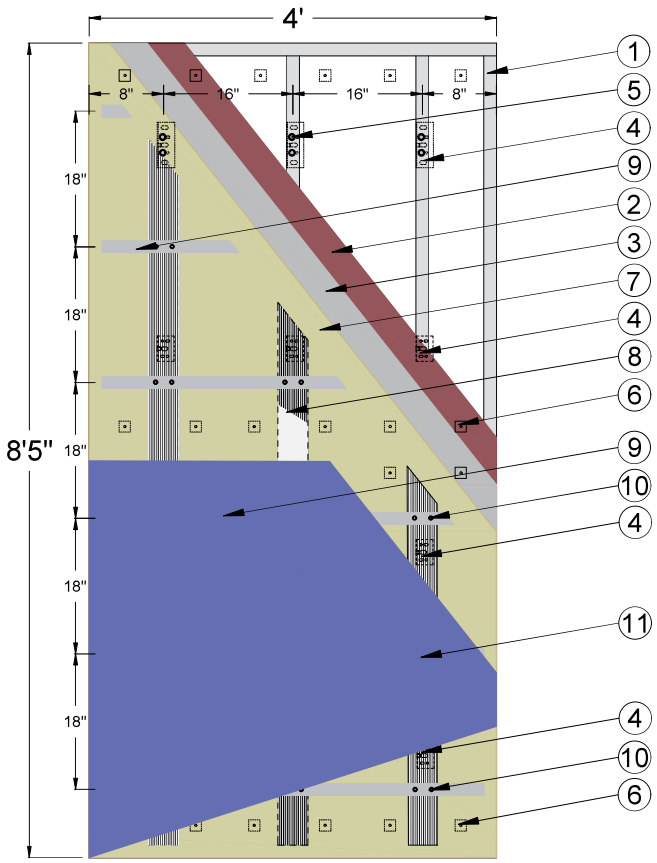
PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 22-0606.05
Approval Date 12/01/2022
By
Miami-Dade Product Control

Sto Corp.
3800 Camp Creek Parkway, Building 1400, Suite 120
Atlanta, GA 30349

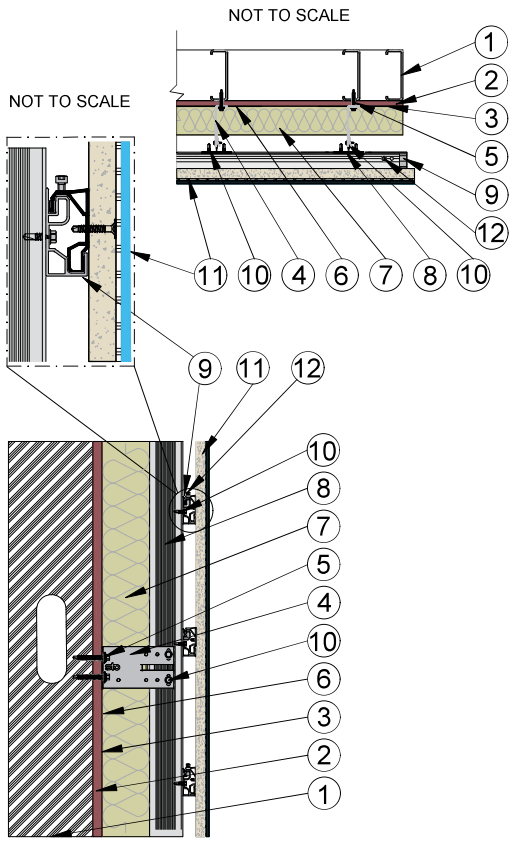
StoVentec Glass Rainscreen System
Installation Details

Drawing No: 2019-6412 (E)	Revision: 1
Date: 8/26/2022	Scale: Not to Scale
Sheet: 1 of 8	Drawn By: R.T.

WILLIAM R. HEIDEN III
LICENSE
No. 58523
STATE OF FLORIDA
PROFESSIONAL ENGINEER
September 14, 2022



NOT TO SCALE



NOT TO SCALE

KEY

1) Min. 6" 18ga steel studs and track @ 16" O.C.
2) 5/8" 5-Ply, Plywood sheathing fastened with #10 x 1-7/16" Self-Drilling Flat Head Screws @ 6" o.c. along studs and perimeter (as tested).
3) Sto AirSeal®, Fluid-applied Air & Moisture Barrier
4) StoVentro™ ALUM Brackets (FP/GP), grade 6063-T66.
   FP Brackets:135mm [height], 3.2mm-4.2mm [thickness], 40mm-320mm [depth] in 20mm increments
   GP Brackets: 95.5mm [height], 3.2mm-4.2mm [thickness], 40mm-320mm [depth] in 20mm increments
5) 1/4-14 SD2 Bi-Met 300™ Subframe Attachment by SFS
6) Nail Plates/Stick Pins. Low carbon steel with galvanized plating with 12 gauge pin diameter, perforated 2" x 2" base.
7) Owens Corning Thermafiber® Rainbarrier® 45 Mineral Wool Insulation
8) StoVentro™ T-Profile. 2.7mm-thick 6005A-T5 aluminum. Individual pieces: 3m long, 90mm wide, 50mm deep.
9) StoVentro™ Agraffe - 3.3mm thick 6063-T66 aluminum (3m long, 65mm high, 30.6mm deep) and Carrier Profiles - 2.2mm thick 6063-T66 aluminum (62.5mm high, 28.8mm deep, length proportional to glass panel dimension). *Carrier profiles are a pre-fastened component of the glass panel assemblies.*
10) StoVentro™ Sub-Construction Screw
11) StoVentec® Glass Panel Assembly - ***Prefabricated assembly*** includes 8mm toughened, heat-soaked **glass** adhered to **Carrier Board** (glass granulate composite) panels with beads of **adhesive** (~4mm thick). **Carrier Profiles** are fastened to Carrier Boards prior to glass adhesion with #12 flat-head self-drilling screws.
12) Sto Adjustment Screw
13) [Not Pictured] StoVentro™ L-Profile. 2.7mm-thick 6005A-T5 aluminum. 3m [long], 50mm [wide] x 40mm [wide]. L-profiles are used at outside corner conditions. Refer to Detail 2 on Sheets 6 and 8.

StoVentec Glass Installation Elevation			
Agraffe Spacing 18" o.c.		Agraffe Spacing 40" o.c.	
Design Pressure Rating	Impact Rating	Design Pressure Rating	Impact Rating
+/- 100.0 PSF	Large Missile Impact	+/- 70.0 PSF	Large Missile Impact

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StoVentec Glass Rainscreen System
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Drawing No: 2019-6412 (E)	Revision: 1
Date: 8/26/2022	Scale: Not to Scale
Sheet: 2 of 8	Drawn By: R.T.

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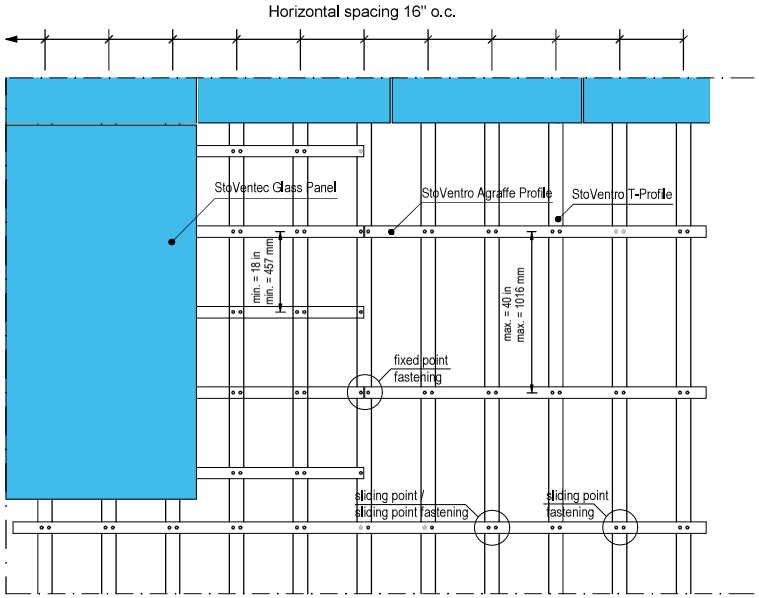
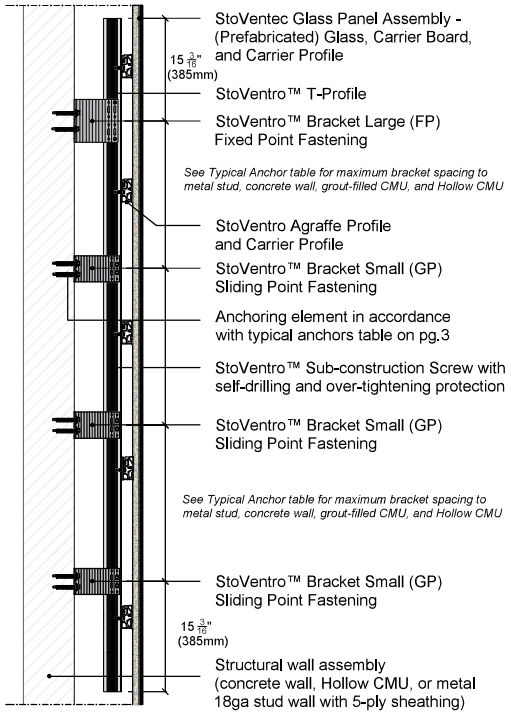
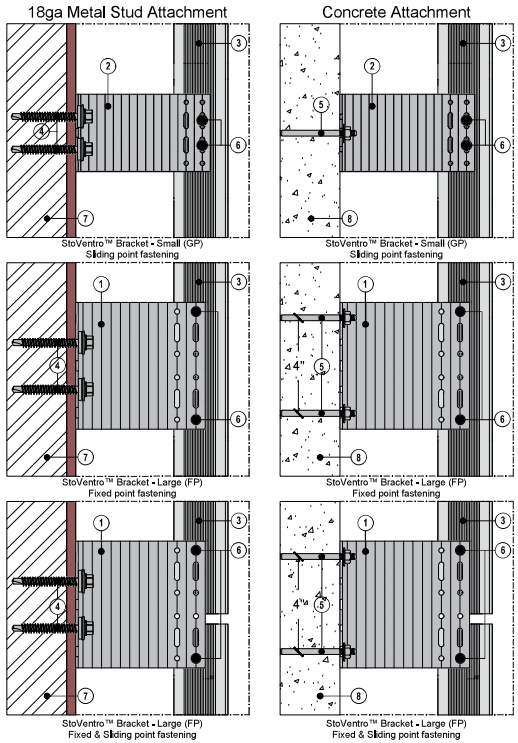


Engineering to determine sub-construction layout based on project design pressures. Shown are max/min example dimensions

1 STOVENTEC TYPICAL SUB-CONSTRUCTION ATTACHMENT ELEVATION VIEW N.T.S.



2 STOVENTEC BRACKET SPACING AND STOVENTRO T-PROFILE ATTACHMENT SECTION VIEW, N.T.S.



3 STOVENTEC BRACKET ATTACHMENT SECTION VIEW N.T.S.

Note: All values are subject to structural analysis.

Typical Anchors

Metal 18ga Studs	Concrete/Grout-Filled CMU	Hollow CMU
Fastener: SFS 1/4-14 Bi-Met 300™ Sub-frame attachment fastener w/ washer	Fastener: 3/8" Simpson Strong Tie Titan HD® Concrete Anchor, or similar of equal or greater capacity.	Fastener: 3/8" Simpson Strong Tie Titan HD® Concrete Anchor, or similar of equal or greater capacity.
Embed Length: 3 Threads, 1" Min.	Embed Length: 2-3/4"	Embed Length: 1-1/4"
Agraffe Rail Spacing 18" o.c. 40" o.c.	Agraffe Rail Spacing 18" o.c. 40" o.c.	Agraffe Rail Spacing 18" o.c. 40" o.c.
Vertical Bracket Spacing 24" o.c. 24" o.c.	Vertical Bracket Spacing 24" o.c. 24" o.c.	Vertical Bracket Spacing 16" o.c. 24" o.c.
	Min. Fastener edge distance: 4"; FP bracket fastener spacing: 4"	

Key

1. StoVentro™ Bracket Large (FP)
2. StoVentro™ Bracket Small (GP)
3. StoVentro™ T-Profile
4. SFS 1/4-14 Bi-Met 300™ Sub-frame attachment fastener w/ washer
5. Simpson Strong Tie Titan HD® Concrete Anchor
6. StoVentro™ Sub-construction Screw SS with self-drilling and over-tightening protection (5.5 x 19mm or 22mm)
7. Structural wall assembly (18ga stud wall with plywood sheathing)
8. Structural wall assembly (Concrete/Grout-filled CMU, Hollow CMU)

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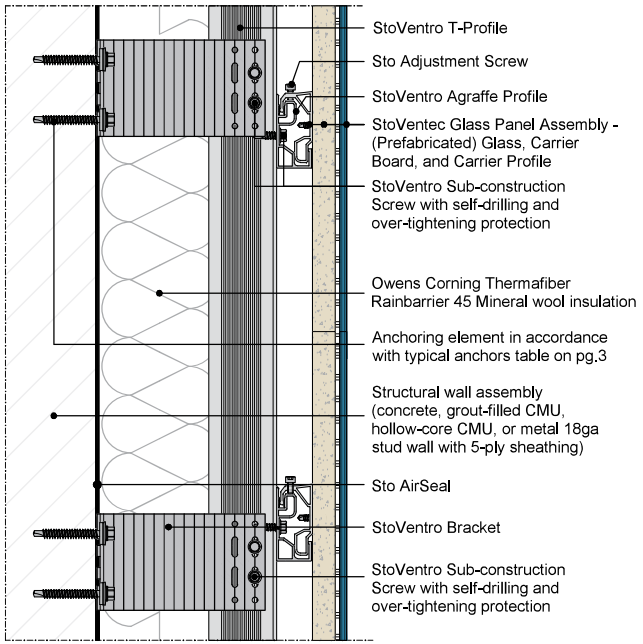
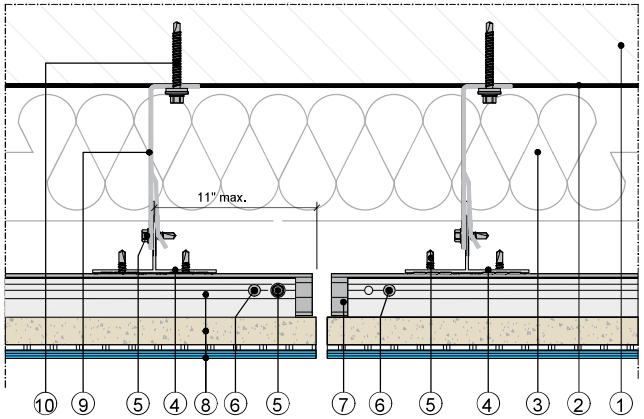
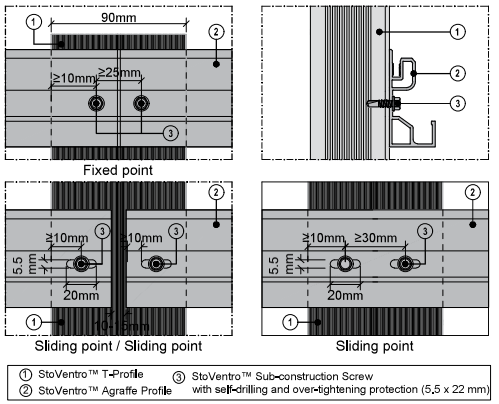


1 STOVENTEC GLASS HORIZONTAL JOINT SECTION VIEW
N.T.S.

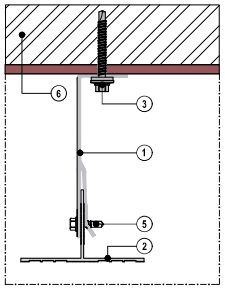


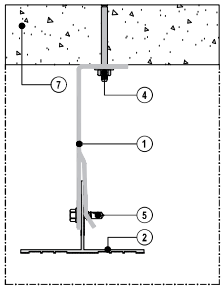
1) Structural wall assembly (concrete, grout-filled CMU, hollow-core CMU, or metal 18ga stud wall with 5-ply sheathing)
2) Sto AirSeal
3) Owens Corning Thermafiber Rainbarrier 45 Mineral wool insulation
4) StoVentro T-Profile
5) StoVentro Sub-construction Screw with self-drilling and over-tightening protection
6) Sto Adjustment Screw
7) StoVentro Agraffe Profile
8) StoVentec Glass Panel Assembly - (Prefabricated) Glass, Carrier Board, and Carrier Profile
9) StoVentro Bracket
10) Anchoring element in accordance with typical anchors table on pg.3

2 STOVENTEC GLASS VERTICAL JOINT PLAN VIEW
N.T.S.



3 STOVENTRO AGRAFFE ALIGNMENT AND ATTACHMENT - ELEVATION VIEW
N.T.S.





Key

1. StoVentro™ Bracket
2. StoVentro™ T-Profile
3. SFS 1/4-14 Bi-Met 300™ Sub-frame attachment fastener w/ washer
4. 3/8" Simpson Strong Tie Titan HD® Concrete Anchor, or similar approved by Sto
5. StoVentro™ Sub-construction Screw with self-drilling and over-tightening protection (5,5 x 19mm or 22mm)
6. Structural wall assembly (18ga stud wall with plywood sheathing)
7. Structural wall assembly (Concrete, grout-filled or hollow-core CMU)

4 STOVENTRO BRACKET ATTACHMENT PLAN VIEW
N.T.S.

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StoVentec Glass Rainscreen System
Installation Details

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Sheet: 4 of 8	Drawn By: R.T.

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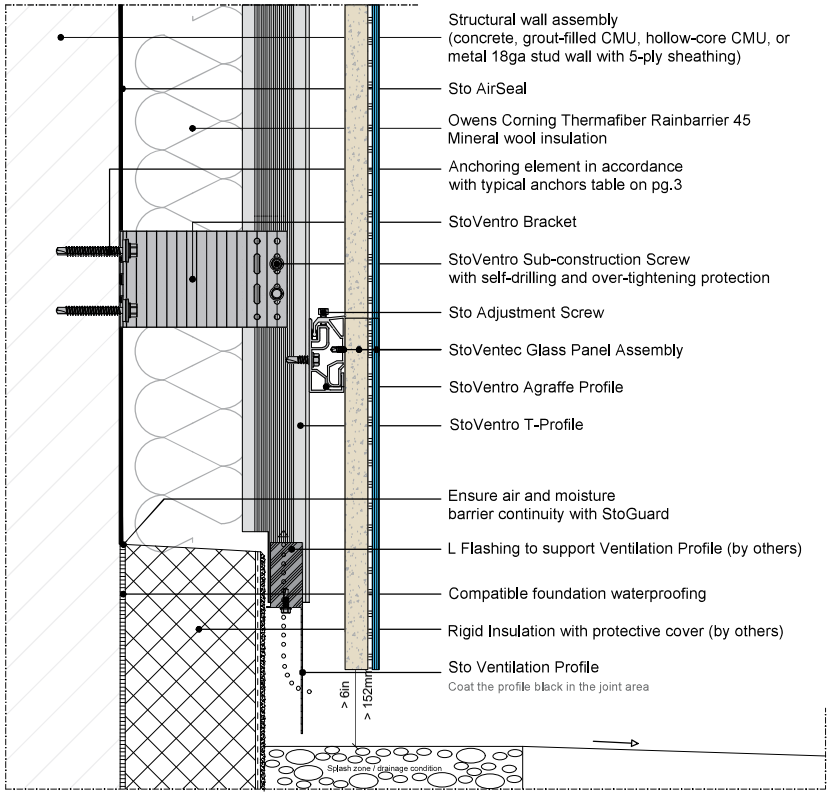
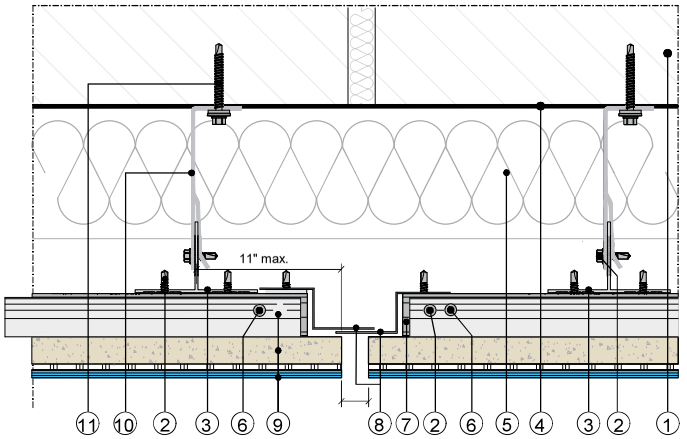


If the StoVentec Glass Panel Assembly projects into the splash zone when it is installed, provide the system with additional protection against impact/penetration and ensure constant system ventilation by taking structural and maintenance measures. Constant, excessive impact can damage the system. The planner must determine the height and position of the splash zone on a project-specific basis.

1 STOVENTEC INSTALLATION AT GRADE
SECTION VIEW
N.T.S.



1) Structural wall assembly (concrete, grout-filled CMU, hollow-core CMU, or metal 18ga stud wall with 5-ply sheathing)
2) StoVentro Sub-construction Screw with self-drilling and over-tightening protection
3) StoVentro T-Profile
4) Sto AirSeal
5) Owens Corning Thermafiber Rainbarrier 45 Mineral wool insulation
6) Sto Adjustment Screw
7) StoVentro Agraffe Profile
8) Folded aluminum or metal sheets (by others)
9) StoVentec Glass Panel Assembly - (Prefabricated) Glass, Carrier Board, and Carrier Profile
10) StoVentro Bracket
11) Anchoring element in accordance with typical anchors table on pg.3

Joint width in accordance with the specifications of the structural engineer and the expected deformations of the structural expansion joint.
If the joint width > 20 mm, cover the joint on the rear side of the StoVentec Glass Panels with two folded aluminum or metal sheets installed without torsion strain.

2 STOVENTEC INSTALLATION AT MOVEMENT JOINT
PLAN VIEW
N.T.S.

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StoVentec Glass Rainscreen System
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Sheet: 5 of 8	Drawn By: R.T.

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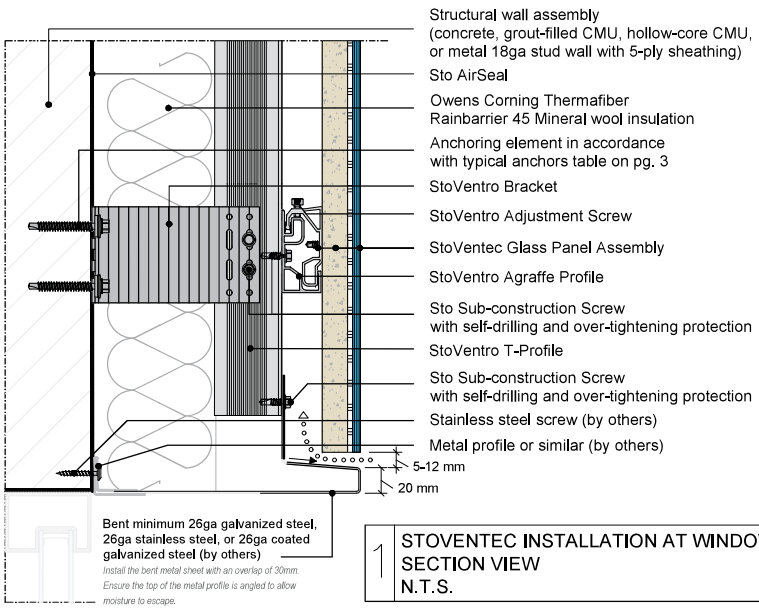
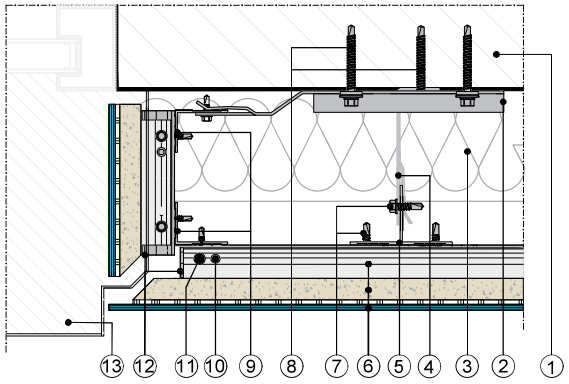


1 STOVENTEC INSTALLATION AT WINDOW HEAD
SECTION VIEW
N.T.S.

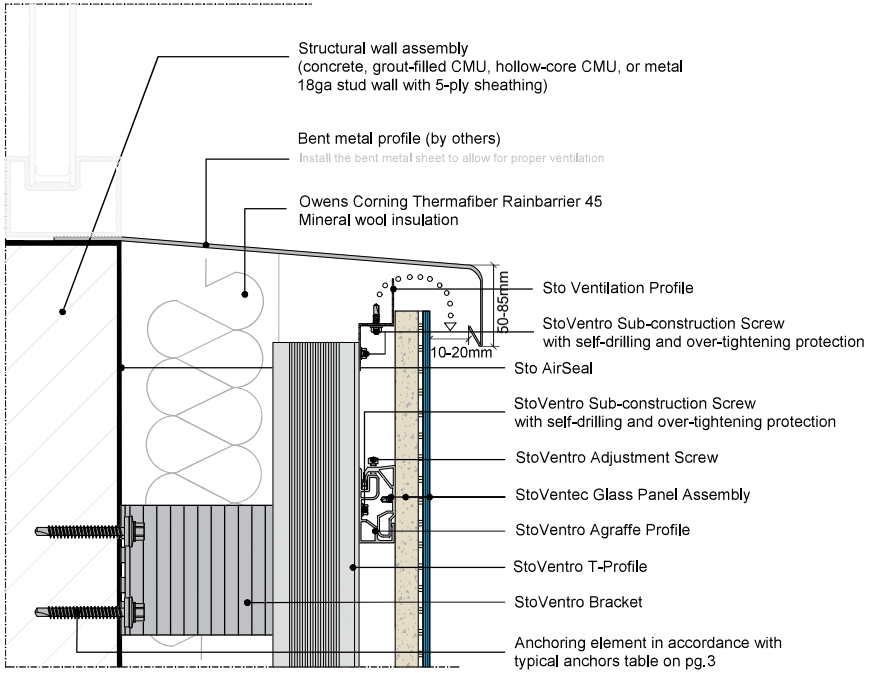


If using a StoVentec Glass Panel as a jamb return, the width and length of the panel must have a ratio of max. 1 : 12.

Note: Wind-proofing, waterproofing, and installation of the window in accordance with information of the window manufacturer.

2 STOVENTEC INSTALLATION AT WINDOW JAMB
PLAN VIEW
N.T.S.

1) Structural wall assembly (concrete, grout-filled CMU, hollow-core CMU, or metal 18ga stud wall with 5-ply sheathing)
2) StoVentro Lintel Bracket
3) Owens Corning Thermafiber Rainbarrier 45 Mineral wool insulation
4) StoVentro Bracket
5) StoVentro T-Profile
6) StoVentec Glass Panel Assembly - (Prefabricated) Glass, Carrier Board, and Carrier Profile
7) StoVentro Sub-construction Screw with self-drilling and over-tightening protection
8) Anchoring element in accordance with typical anchors table on pg. 3
9) Install StoVentro L-Profile with a max. installation length of 3 m without torsion strain
10) StoVentro Adjustment Screw
11) StoVentro Sub-construction Screw with self-drilling and over-tightening protection
12) StoVentec Agraffe Profile
13) Metal window sill (by others)



3 STOVENTEC INSTALLATION AT WINDOW SILL
SECTION VIEW
N.T.S.

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Sheet: 6 of 6	Drawn By: R.T.

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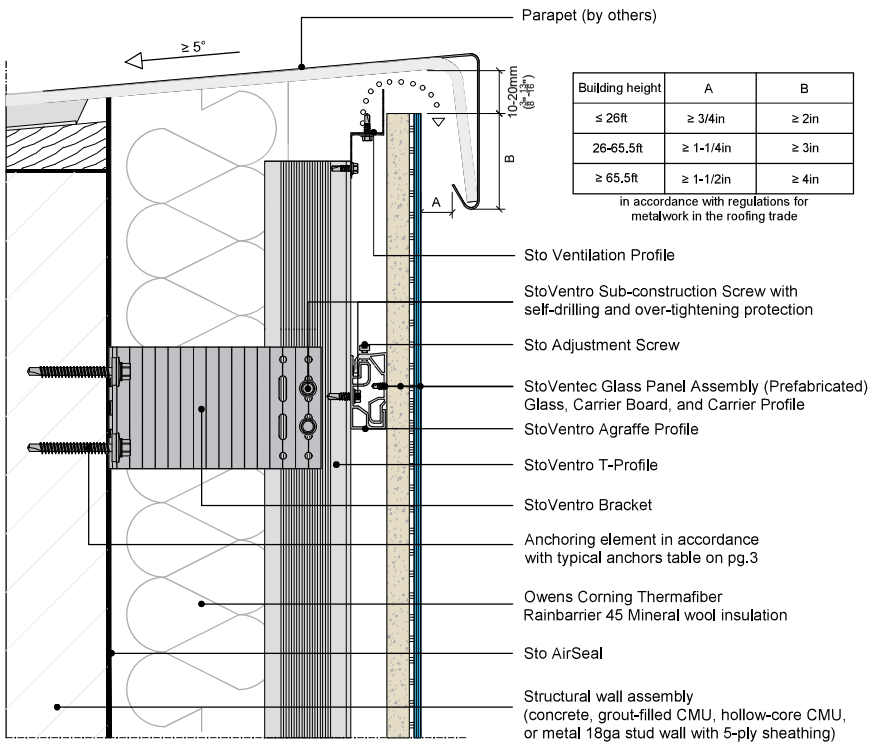
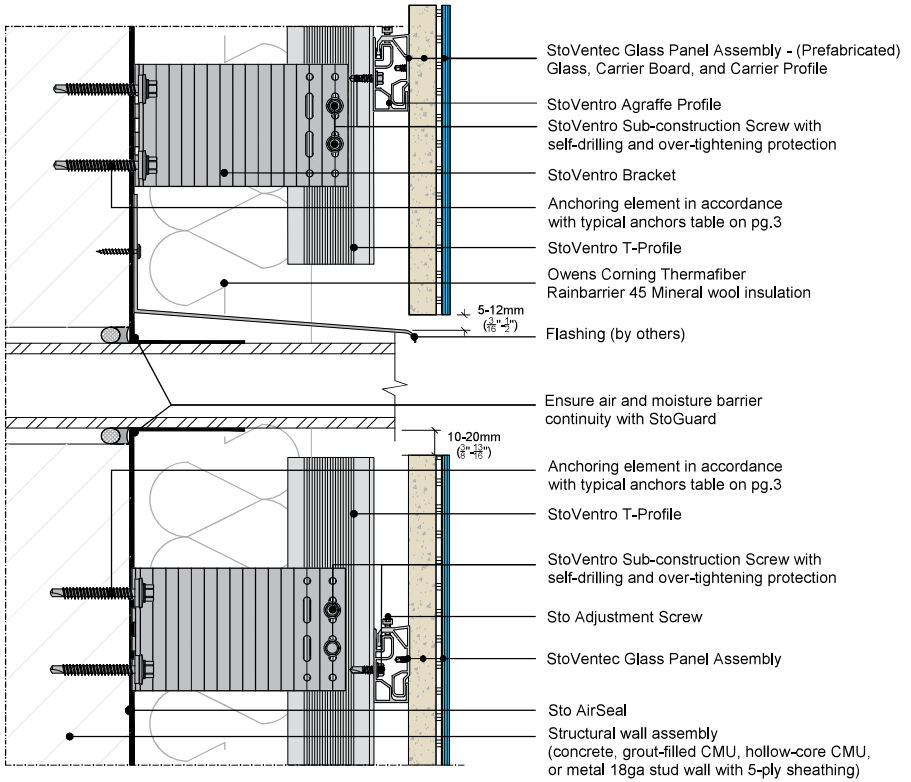
September 14, 2022



Building height	A	B
≤ 26ft	≥ 3/4in	≥ 2in
26-65.5ft	≥ 1-1/4in	≥ 3in
≥ 65.5ft	≥ 1-1/2in	≥ 4in

in accordance with regulations for metalwork in the roofing trade

1 STOVENTEC INSTALLATION AT PARAPET
SECTION VIEW
N.T.S.



2 STOVENTEC INSTALLATION AT PENETRATION
SECTION VIEW
N.T.S.

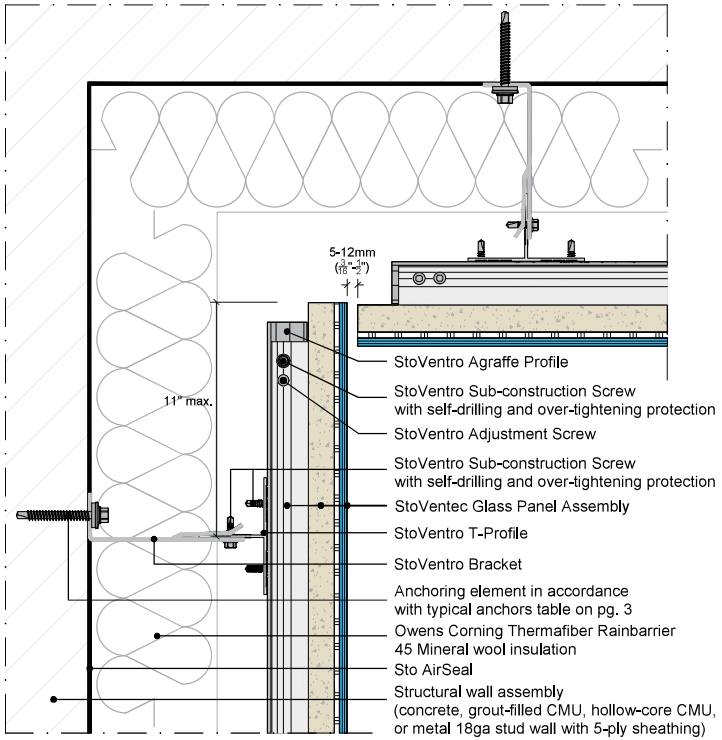
PRODUCT APPROVED
as complying with the Florida Building Code
NOA–No. 22-0606.05
Approval Date 12/01/2022
By
Miami-Dade Product Control

Sto Corp.
3800 Camp Creek Parkway, Building 1400, Suite 120
Atlanta, GA 30349

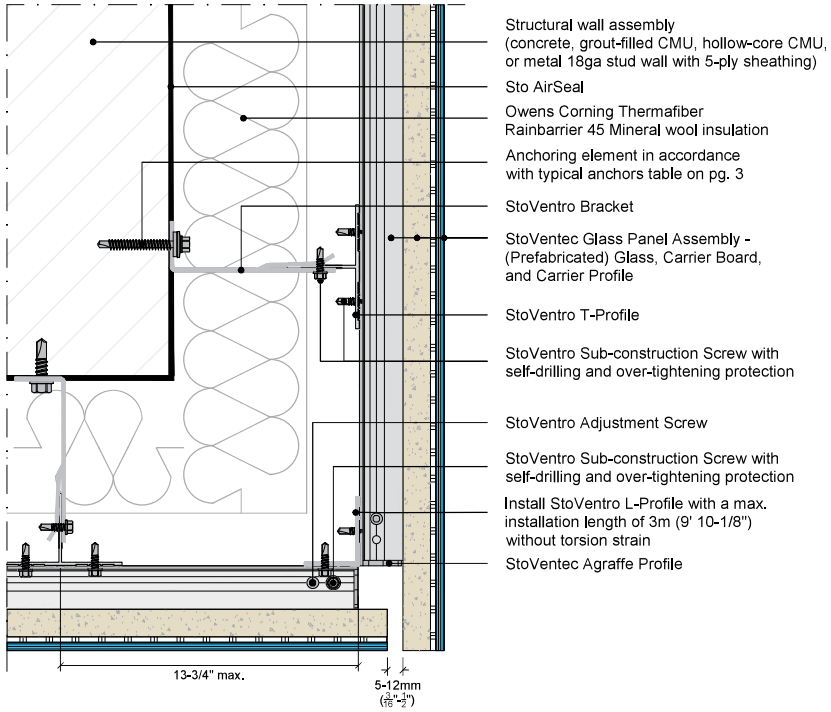
StoVentec Glass Rainscreen System
Installation Details

Drawing No: 2019-6412 (E)	Revision: 1
Date: 8/26/2022	Scale: Not to Scale
Sheet: 7 of 8	Drawn By: R.T.

WILLIAM R. HEIDEN III
LICENSE
No. 58523
STATE OF FLORIDA
PROFESSIONAL ENGINEER
September 14, 2022



1 STOVENTEC INSIDE CORNER
PLAN VIEW
N.T.S.



2 STOVENTEC OUTSIDE CORNER
PLAN VIEW
N.T.S.

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