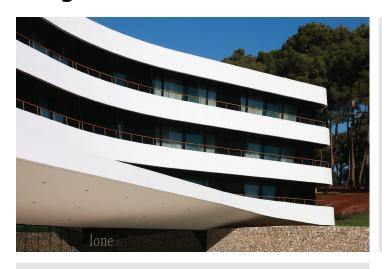


Building with conscience.





Design Guide



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ATTENTION

Version 1.2 - November 2025

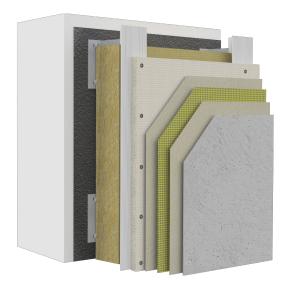
The final design of any project is the sole responsibility of the Design Professional, with considerations for compliance of local building and design codes and requirements. Sto Corp. accepts no liability for design, engineering, or workmanship of any project. The information provided herein is in addition to other technical data provided by Sto Corp. (System Bulletin, Specification, Guide Details, etc). For more information, please visit www.stocorp.com

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The Original Complete Rainscreen® System

StoVentec Render achieves the look of insulated stucco or many other aesthetic options but is a drained and back-ventilated rainscreen wall system. The system consists of five principal components: an air and water-resistive barrier, an adjustable sub-construction, thermal insulation, a lightweight composite carrier board made from recycled glass granulates and an architectural finish system. All Sto components are covered by a single-source warranty from Sto Corp.

StoVentec Render offers a wide selection of finishes in a variety of textures and an extensive range of color options. Unique shapes, details, textures, colors and finish effects are all possible with Sto's unmatched offering of standard and specialty finishes. Render delivers the speed, simplicity and versatility of field construction with redundant moisture protection, high impact strength and design freedom. Most materials are typically available with minimal lead times. Custom shapes, curves, colors, textures and effects can be readily created on site.



Air and Water-Resistive Barrier

The first component of the StoVentec Render system is Sto AirSeal®. It is a fluid applied Air and Water-Resistive Barrier (AWRB) designed for use on most substrates, including glass mat gypsum sheathing, wood-based sheathing, concrete, and masonry. Sto AirSeal® protects walls against moisture damage from rain during construction and provides secondary moisture protection while the building is in service. It functions as the primary air barrier component in the wall assembly and comes with multiple transition components for maintaining AWRB continuity at joints, seams, wall penetrations, and across dissimilar materials. Sto AirSeal® features 500% tensile elongation, meets requirements of ASTM C1305 Low Temperature Crack Bridging and offers building code compliance confirmed by ICC-ESR 1233. Alternatively, Sto Gold Coat®, in a medium or high-build application, may also be used with StoVentec systems, or Sto VaporSeal® can be used where a vapor impermeable air and water-resistive barrier is specified. Further, Sto GoldSeal STPE, StoShield™ SA VP, and StoShield™ SA NP are also available options.



StoVentro™ sub-construction

Sub-construction plays a vital role in wall design and construction. In addition to forming the structural link between façade and base wall, it provides design flexibility to StoVentec Render. Adjustable StoVentro wall brackets work with Sto Carrier Board to create dynamic curvilinear surfaces, easily and economically. They also accommodate substrate waviness and imperfections. Together with StoVentro T and L-profiles, StoVentro brackets create correctly sized ventilation cavities that allow air circulation within limits defined by NFPA 285 fire propagation testing.



Thermal Insulation

StoVentec uses Rockwool Cavityrock® continuous insulation. This ASTM C612 Type IVB (CAN/ULC S-702, Type I) and E136 compliant mineral wool provides exceptional thermal performance, fire resistance, acoustical control and moisture resistance. StoVentec offers thermal efficiency modeling reports by Morrison Hershfield for each of our StoVentro bracket types in order to help projects meet certain energy code U-factor or R-value requirements.



StoVentec® Carrier Board

Many of the unique properties of StoVentec Render are derived from the StoVentec Carrier Board, a lightweight composite board made from recycled glass granulates with extraordinary properties. By combining strength and impact resistance with flexibility and light weight, StoVentec Carrier Board opens new possibilities. Sweeping, radiused shapes are easily created. High impact resistance combined with corrosion resistance takes durability to a new level. StoVentec Carrier Board is the blank canvas on which the full range of Sto coatings and finishes find expression.



Architectural Finish System

The <u>options</u> are unlimited. From bright, highly chromatic colors to very dark shades, all are possible. Choose among the variety of StoSignature effects, StoCast Brick and Wood resin shapes, to decorative and protective finishes with self-cleaning properties. Backing these outstanding visual effects is a layer of treated glass fiber mesh embedded in StoArmat Classic Plus base coat for enhanced impact resistance. StoVentec offers the appearance of insulated stucco but via a more durable and much easier to install complete rainscreen system.



Figure 1.0 Sto AirSeal® Structural Wall Assembly Air and Water-Resistive Concrete, Masonry, Stud Wall with Sheathing Barrier **Mineral Wool Insulation Board** Thermal Insulation StoVentro™ T-Profile Sub-construction StoVentro™ Render Facade Screw StoVentro™ **Sub-construction** Screw **Anchoring Element** Attached to Structural StoVentro™ Bracket Sub-construction **Ventilation Cavity Sto Architectural Finish** StoArmat Classic plus **StoVentec®** Base Coat, Sto Mesh, and **Carrier Board** Sto Finish

Glossary of Terms

StoGuard® Air & Water-Resistive Barrier – liquid applied or self-adhered membrane AWRBs available as vapor-permeable or vapor-impermeable components.

Mineral Wool Insulation Board - Rockwool Cavityrock® or Cavityrock Black insulation provides thermal insulation, fire resistive characteristics, and acoustical control. (Not provided by Sto Corp.)

StoVentro™ Sub-construction – Zn-Al-Mg coated steel or aluminum wall brackets with aluminum vertical support profiles.

StoVentro™ Bracket – Adjustable aluminum or Zn-Al-Mg-coated steel support for vertical 'L' and 'T' profiles. Steel brackets with Spring Fingers (as shown in illustrations) are optional (non-standard, made-to-order) versions with a lead time.

StoVentro™ T-Profile – Vertical aluminum profile, attached to the wall brackets, which supports StoVentec® Carrier Board.

StoVentro™ Sub-construction Screw – Stainless steel fastener that provides wall bracket to vertical profile attachment.

StoVentro™ Render Façade Screw – Stainless steel fastener that provides attachment of StoVentec® Carrier Board to vertical StoVentro™ T-Profiles.

Ventilation Cavity – The circulating air layer between the Mineral Wool Insulation Board and StoVentec® Carrier Board.

StoVentec® Carrier Board – Lightweight composite board made of recycled glass granulate.

Sto Architectural Finish – Render offers a wide range of possibilities in surface texture, color and appearances over StoArmat Classic plus base coat and Sto Mesh.

Sto Edge Protection Profile – Sto PVC edge profile with integral glass fiber reinforcing mesh for 12mm StoVentec® Carrier Board. (Not shown)

Sto Mesh Corner Bead – Corner bead with integral glass fiber reinforcing mesh. (Not shown)

Sto Ventilation Profile – Perforated profile for drainage and ventilation. (Not shown)

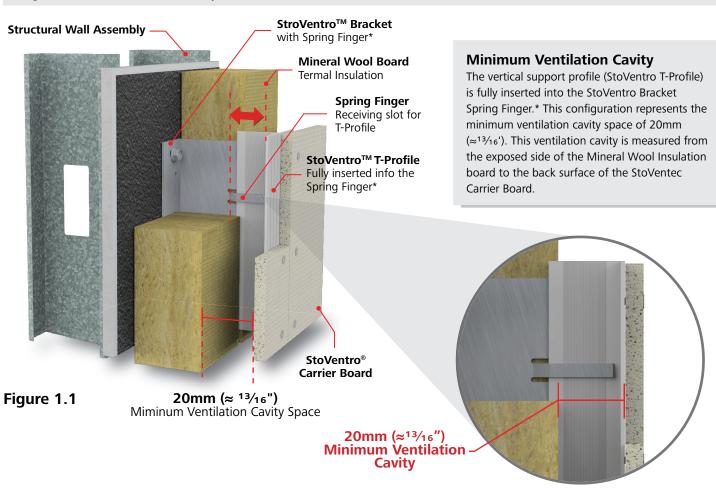
StoVentro™ L-Profile – Aluminum support member used at inside and outside corners for structural attachment. (Not shown)

Accessory Profiles – Sto Drip Edge Profile, Sto Rain Guard Profile and Sto Roof Vent Profile (Not shown)

Anchoring Element – Engineered and code compliant fastener for attachment of StoVentro™ Bracket to steel framing.

Thermal Blocking Elements - 6mm spacers for reduction of thermal bridging effects where brackets connect to framing. (Not shown)





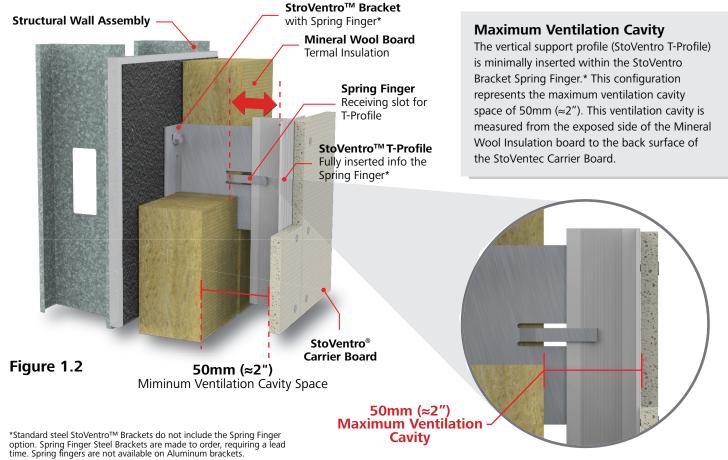




Table 1.0 - Bracket Size and System Depth as determined by Insulation Requirements

			ation⁴ equired		Sto Wall Bracket Size Required	- Minimum - Distance from AWRB ³ to Front Face of Architectural	- Minimum - Distance from AWRB ³ to Front Face of Architectural	- Maximum - Distance from AWRB ³ to Front Face of Architectural	- Maximum - Distance from AWRB ³ to Front Face of Architectural
	Width (in)	Width (mm)	R-Value ¹	RSI-Value ²	(mm)*	Finish (mm)	Finish (in)	Finish (mm)	Finish (in)
	0-1"	0-25	0, 4.3	0, 0.74	40	69.3 ⁶	2-3/4"	89.3	3-1/2"
	1"	25	4.3	0.74	60	79.3	3-1/8"	109.3	4-5/16"
	1.5"	38.1	6.45	1.11	60	79.3	3-1/8"	109.3	4-5/16"
	2"	50.8	8.6	1.48	80	99.3	3-15/16"	129.3	5-1/8"
	2.5"	63.5	10.7	1.85	100	119.3	4-11/16"	149.3	5-7/8"
	3″	76.2	12.9	2.22	100	119.3	4-11/16"	149.3	5-7/8"
rd	3.5"	88.9	15	2.59	120	139.3	5-1/2"	169.3	6-11/16"
Standard	4"	101.6	17.2	2.96	120	139.3	5-1/2"	169.3	6-11/16"
Sta	4.5"	114.3	19.3	3.33	140	159.3	6-1/4"	189.3	7-7/16"
	5″	127	21.5	3.7	160	179.3	7"	209.3	8-1/4"
	5.5"	139.7	23.6	4.07	160	179.3	7"	209.3	8-1/4"
	6"	152.4	25.8	4.44	180	199.3	7-7/8"	229.3	9"
	6.5"	165.1	27.9	4.81	180	199.3	7-7/8"	229.3	9″
	7"	177.8	30.1	5.18	200	219.3	8-5/8"	249.3	9-7/8"
	8"	203.2	34.4	5.92	220	239.3	9-7/16"	269.3	10-5/8″
ed ⁵	8.5"	215.9	36.5	6.29	240	259.3	10-3/16"	289.3	11-3/8"
ions Required ⁵	9"	228.6	38.7	6.66	260	279.3	11"	309.3	12-³/16″
Re	9.5″	241.3	40.8	7.03	260	279.3	11"	309.3	12 -3/16"
ions	10"	254	43	7.4	280	299.3	11- ¹³ / ₁₆ "	329.3	13″
erat	10.5″	266.7	45.1	7.77	300	319.3	12-5/8″	349.3	13-3/4"
Considerat	11"	279.4	47.3	8.14	300	319.3	12-5/8″	349.3	13-3/4"
O	11.5"	292.1	49.4	8.51	320	339.3	13-3/8"	369.3	14-9/16"
sign	12"	304.8	51.6	8.88	320	339.3	13-3/8″	369.3	14-9/16"
Special Design	12.5"	317.5	53.7	9.25	340	359.3	14-1/8"	389.3	15-3/8"
ecia	13″	330.2	55.9	9.62	360	379.3	15"	409.3	16-1/8"
Sp	13.5"	342.9	58	9.99	360	379.3	15"	409.3	16-1/8"

 $^{^{1}}$ R = 4.3 per 1 inch

 $^{^{2}}$ RSI = 0.74 per 25mm

³ AWRB = Air and Water-Resistive Barrier

Component Thicknesses: T-Profile \sim 1/8" (2.7mm), Carrier Board 7/16" (12mm), basecoat, mesh and finish \sim 1/8 to 1/4" (3.2-6.4mm) (3/16" (4.6mm) used for table)

⁴ Rockwool Cavityrock® or equivalent

⁵ Multiple layers of insulation required

⁶ T-Profile is taller (52.7mm) than the 40mm bracket

^{* 25}mm, 40-360mm (in 20mm increments) available



Table 1.1 - System Information

Feature	Description	Value
Application	Approved for vertical walls, ceilings, and soffits	Above grade only, exterior and interior. Commercial, Residential and Institutional construction.
Application	Curved façade applications	Façades with radius as small as 300mm (11-13/16") can be achieved. See Details for applications with radius.
Warranty	Limited Warranty	10 Year
System Component	Component 1 - Air and Water-Resistive Barrier (AWRB)	Sto AirSeal®. Fluid applied, vapor permeable AWRB (alternatives: any of the <u>StoGuard® family</u>)
System Component	Component 2 - Sub-construction	StoVentro™
System Component	Component 3 - Insulation	Rockwool Cavityrock®, Cavityrock Black, or equivalent ASTM C612, E136 compliant
System Component	Component 4 - Carrier Board	StoVentec® Carrier Board
System Component	Component 5 - Architectural Finish System	Sto Textured Finishes or StoCast on Reinforced Base Coat
System Weight	Weight range of Sto Textured Finish, Carrier Board, StoVentro Sub-construction and Thermal Insulation	≈18.98 to ≈24.24 kg/m² (≈3.89 to ≈4.96 lb.ft²) variable based on cavity depth
System Weight	Weight range of Sto Textured Finish (Sto Base Coat, Sto Mesh, and Sto Finish)	≈7.32 to ≈9.76 kg/m2 (≈1.5 to ≈2.0 lb/ft²)
System Weight	Weight of StoVentec Carrier Board without Sto Architectural Finish (Sto Base Coat, Sto Mesh and Sto Finish)	6 kg/m² (1.23 lb./ft²)
System Weight	Weight of StoVentro Sub-construction	≈2.00 kg/m² (0.41 lb./ft²) Variable based on cavity depth
System Weight	Weight of Thermal Insulation	0.75 - 2.63 lb/ft² (3.66 - 12.84 kg/m²) at 2"-7" (51 - 178mm) thickness
Substrates	Allowable wall substrates	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. For others, contact Sto Corp.
Substrates	Horizontal spacing (stud spacing) of vertically oriented StoVentro T-profiles mounted on StoVentro brackets	406mm (16") on center
Substrates	Vertical spacing of StoVentro brackets	Varies based on Wind Loads and/or pre-engineering. See CCRR 0454 or StoVentec load tables
Ventilation	Ventilation is required at top and bottom of architectural finished panel	Minimum 10mm (¾") gap
Ventilation Cavity	Thickness of unobstructed air cavity between face of wall mounted insulation and rear surface of StoVentec Carrier Board	20mm - 50mm (¹³ / ₁₆ "- 2")
Deflection Limit	Recommended allowable deflection limit	L/360
Structural	Structural Wall Assembly level tolerance	6mm in 3.0m (1/4"in 10')
System Layout	Gap between StoVentec Carrier Board outside edge and all other physical building elements (if ventilation profile IS NOT used)	10mm - 20mm (¾" - ¹¾16")
System Layout	Gap between StoVentec Carrier Board outside edge and all other physical building elements (if ventilation profile IS used)	25mm (1")
System Layout	Clearance of architectural finished panel above ground level	150mm (5-1/a") (minimum)
System Layout	StoVentec Render setback distance of textured finish from ground objects (structures/elements)	At ground level, recommended 914.4mm (3') minimum setback allowance for protection against inadvertent impact, snow accumulation, debris build-up, etc.



Table 1.1 - System Information (cont'd)

Feature	Description	Value
System Layout	StoVentec Carrier Board installation	Carrier boards butt ends shall be centered horizontally on the mounting surface of the 90 mm wide vertically oriented T-profiles. See StoVentec Carrier Board Product Bulletin.
System Layout	Sto Edge Protection Profiles	Use of Sto Edge Protection profiles are REQUIRED at all outside exposed edges of StoVentec Carrier Board (i.e. All exposed perimeter edges)
System Layout	StoVentec Carrier Board corners	Use of Sto Mesh Corner Bead required on all outside corners, jambs, and returns of Sto Textured Finish.
System Layout	StoVentec Carrier Board connections to other structures/elements	Use of backer rod and StoSeal STPE required (with appropriate allowance for weep/drainage) at interfaces to other structures and elements.
System Layout	StoVentec Carrier Board orientation	Install boards horizontally in a running bond pattern.
System Layout	Quantity of fixed point (FP) connections to T/L profite	1 maximum
System Layout	Quantity of sliding point (GP) connections to T/L profite	At least one sliding point is required. Actual quantity is defined by project-specific engineering calculations.
Joint Requirements ¹	Max. seamless distance between expansion joints in the field of the wall	25m (82 ft)
Joint Requirements ¹	Joints are required in the system at these conditions	Existing movement joints in back-up wall construction Through-wall joints in back-up wall construction Dissimilar back-up wall construction (e.g., frame wall to masonry wall) Floor line deflection joints in steel frame construction Floor lines in multi-level wood-frame construction Intervals of not more than 82 feet (25m) in the field of walls
Joint Requirements ¹	At junctions or abutments to dissimilar building components	Windows, doors, alternative façade materials, pipe, scupper and similar through wall penetrations.
Fire Break	Required (Horizontal) for NFPA 285 compliance	Refer to StoVentec® Details for material and configuration.
Flashing	Recommended	Refer to StoVentec® Details for material and configuration.

¹ Size joints in accordance with anticipated movement



Table 1.2 - Component Information

Feature	Description	Value
AWRB	StoGuard [®] Air and Water-Resistive Barrier (AWRB), Sto AirSeal [®] or Sto VaporSeal [®] (alternatives: see SVFC Specification and StoGuard [®] family)	Vapor permeable or impermeable per project specific requirement, as manufactured by Sto Corp.
AWRB	Thickness	Substrate-driven (20-mils WFT - thickness varies), Medium-Build (40-mils WFT), or High-Build (65-mils WFT) specification options. Refer to the AirSeal® webpage or Render 3-part spec.
AWRB	Color	Charcoal: Sto AirSeal [®] Green: Sto VaporSeal [®] Yellow: Gold Coat [®] Graphite: StoShield [™] SA VP Black: StoShield [™] SA NP Gold: GoldSeal [™] STPE
Sub-Construction	Bracket material	HSLAS-F Gr. 80 + Zn-Al-Mg coated steel or 6063 T66 aluminum
Sub-Construction	Steel Bracket: Small StoVentro Bracket (GP) W x H x T1 Used for wind loading	50mm x 75mm x 2.0mm x variable depth (2" x 2-15/16" x 1/16")
Sub-Construction	Steel Bracket: Large StoVentro Bracket (FP) W x H x T1 Used for dead/fixed point loading and wind loading	50mm x 130mm x 2.0mm x variable depth (2" x 5-1/6" x 1/16")
Sub-Construction	Aluminum Bracket: Small StoVentro Bracket (GP) W x H x T1 Used for wind loading	50mm x 95.5mm x 3.2-4.2mm x variable depth (2" x 3-3/4" x 1/8 - 3/16")
Sub-Construction	Aluminum Bracket: Large StoVentro Bracket (FP) W x H x T1 Used for dead/fixed point loading and wind loading	50mm x 135mm x 3.2-4.2mm x variable depth (2" x 5-5/16" x 1/8 - 3/16")
Sub-Construction	Depth Range	25mm, 40mm - 360mm (1", 1- %16" - 14-1/8")
Sub-Construction	Bracket: Adjustability Depth Range	0mm - 30mm (0" - 1- ³ / ₁₆ ")
Sub-Construction	Protrusion of top of bracket above face of insulation	≈20mm (¹³/₁6")
Sub-Construction	Bracket weight	Variable by size
Sub-Construction	Material (StoVentro L & T Profile)	6005A-T5 or 6063-T66 aluminum
Sub-Construction	Size: StoVentro T-profile (3m length)	90mm x 53mm x 2.7mm (3-9/16" x 2-1/16" X 1/8")
Sub-Construction	Size: StoVentro L-profile (3m length)	50mm x 40mm x 2.7mm (2" x 1- 1/6" X 1/8")
Sub-Construction	Weight/ft: StoVentro T-profile (approximate)	2.64 kg/m (0.54 lb./ft)
Sub-Construction	Weight/ft: StoVentro L-profile (approximate)	1.61 kg/m (0.33 lb./ft)
Sub-Construction	Fastener: Bracket to StoVentro T/L profile attachment	Hex Head (Torx), Self drilling screw, 5.5mm Dia. x 22mm L, with over torque feature, 304 SS. (3/16" X 7/8")
Sub-Construction	Fastener to Aluminum: StoVentec Carrier Board to StoVentro T/L profile attachment	Flat Head, Self drilling Façade screw, 5.5mm Dia. x 24mm L (¾16" x 15/16") for attachment to aluminum substrate
Sub-Construction	Fastener to Carbon Steel substrates: StoVentec Carrier Board to carbon steel stud	Flat Head, Self drilling Façade screw, 6.0mm Dia. x 28 mm L (½" x 1-1/8") 304 SS, for attachment to carbon steel substrates
Sub-Construction	Fastener to Wood Substrates: StoVentec Carrier Board to StoVentro T/L profile attachment	Flat Head, Self drilling screw, 5.0 mm Dia. x 42 mm L (3/16" x 1-5/8") 304 SS, for attachment to wood substrates



Table 1.2 - Component Information (cont'd)

Feature	Description	Value
Sub-Construction	Bracket to substrate attachment fastener (anchoring fastener). Calculations performed by qualified licensed engineer	Project specific based on wind load, and substrate materials, defined by structural calculations, material: 304 stainless steel
Sub-Construction	Vertical gap between adjacent T/L profiles mounted in an end-to- end configuration	10 - 15mm (¾" - 5½")
Sub-Construction	Minimum fastening distance from top or bottom edge of T/L profile	≥ 10mm (³/s")
Sub-Construction	Attachment locations of StoVentro single T/L profiles to StoVentro Wall Brackets - Small (GP)	To compensate for linear thermal expansion of T/L profiles, attach profiles to StoVentro Brackets through 5.5 x 20mm oblong slots in bracket. These are referred to as sliding point attachment.
Sub-Construction	Attachment locations of StoVentro single T/L profiles to StoVentro Wall Brackets - Large (FP)	Attach T/L profile through circular holes in StoVentro bracket. This is commonly referred to as fixed point attachment.
Insulation	Type: Mineral Wool Board	ASTM C612 (CAN/ULC S-702, Type I) compliant, non-combustible mineral fiber board classified into types and categories: Type IA, IB, IVA.
Insulation	Weight: 50mm - 178mm (2"- 7") Thickness	0.75 - 2.63 lb/ft² (3.66 - 12.84 kg/m²)
Insulation	Thickness Minimum (for compliance with NFPA 285, CAN/ULC S-134)	50mm (2")
Insulation	Density	69 kg/m³ (4.3 lb/ft³) - monolithic density for 1, 1.5, 2" thicknesses 100 kg/m³ (6.2 lb/ft³) outer layer, 61 kg/m³ (3.8 lb/ft³) inner layer - dual density for 2.5" or thicker
Insulation	Thermal Conductivity	0.033 W/cm · K (0.23 (BTU in)/(hr.·ft²·°F), @ 75°F)
Insulation	Thermal Resistance	R-Value = 4.2 per inch, RSI = 0.75 per 25mm of thickness
Insulation	Attachment to sub-construction or structural backup	Insulation dowels by others, per insulation manufacturer instructions.
Carrier Board	Size: Height x Width	1218mm x 2440mm (4' x 8')
Carrier Board	Thickness	12 mm (½")
Carrier Board	Recycled content	StoVentec Carrier Board is comprised of 90+% post-consumer recycled glass granulate
Carrier Board	Bending Tensile Strength, average	≈ 8 N/mm2 (1160 lb.in²) per DIN EN 100
Carrier Board	Bending Tensile Strength, minimum	≈ 5.5 N/mm2 (798 lb.in²)
Carrier Board	Curved application	Desired radius > 8 m (26'-3") for 4' x 8' carrier board, contact Sto Corp. for recommended spacing of sub-construction
Carrier Board	Curved application	For desired radius of 300mm (11-13/16"") $\leq r \leq 8$ m (26'-3"), scoring of carrier board is required. Scoring dimensions: 4.5mm ($^{11/64}$ ") width by 11 mm ($^{7/16}$ ") depth. Contact Sto Corp. for further details about scoring patterns based upon desired radius.
Carrier Board	StoVentec Carrier Board cantilever: vertical overhang of carrier board edge past vertically oriented StoVentro T/L profile.	38 mm nominal (1-1/2")



Table 1.2 - Component Information (cont'd)

Feature	Description	Value
Carrier Board	StoVentec Carrier Board cantilever: horizontal overhang of un- supported carrier board edge past StoVentro T-profile (reinforcing StoVentro L-profile behind carrier board NOT required)	< 152mm (< 6") Reference detail 90.R.046
Carrier Board	StoVentec Carrier Board cantilever: Use of reinforcing StoVentro L-profile behind carrier board REQUIRED for horizontal overhang of carrier board edge past StoVentro T-profile	152mm (6") < length ≤ 406mm (≈ 16") Reference detail 90.R.046
Carrier Board	StoVentec Carrier Board cantilever: Use of reinforcing StoVentro L-profile required in outside corner condition of two adjacent carrier boards	L-profile required
Carrier Board	Connection of T/L profiles in end-to-end connection	Large brackets are required to secure T/L profiles in end-to-end condition. Note: Brackets in this condition can be either function as fixed point (FP)/gliding point (GP), or gliding point (GP)/gliding point (GP). Configuration of brackets in fixed point (FP)/fixed point (FP) condition is not recommended.
Carrier Board	StoVentec Carrier Board attachment at horizontal edges	51 mm (2") from edge
Carrier Board	StoVentec Carrier Board attachment at vertical edges	25mm (1") from edge For reference, see Detail 90.R.001
Carrier Board	StoVentec Carrier Board attachment at horizontal edge from edge of StoVentro T-profile	> 10mm (¾") from edge For reference, see Detail 90.R.001
Carrier Board	StoVentec Carrier Board attachment in field of carrier board to vertically oriented StoVentro T-profile	Installed in a staggered pattern, typically 152mm (6"), 203mm (8"), or 305mm (12") o.c. Wind load for the project may dictate closer spacing. For reference, see Details 90.R.001, 004, 005.
Carrier Board	StoVentec Carrier Board attachment at adjacent carrier boards to vertically oriented StoVentro T-profile	Installed in a straight pattern, typically 152mm (6") o.c., 203mm (8"), or 305mm (12") o.c. Wind load for the project may dictate closer spacing. For reference, see Details 90.R.001, 004, 005.
Architectural Finish	Base Coat	StoArmat Classic plus
Architectural Finish	Thickness (Sto Base Coat, Sto Mesh, and Sto Finish)	\approx 1/8" to \approx 1/4", thickness varies based upon desired finish. Refer to applicable Sto Corp. Product Bulletin for details.
Architectural Finish	Primer	Use of primer is optional, except for specialty finishes as stated in the applicable product bulletin.
Architectural Finish	Aesthetics	No color restrictions apply. When using dark colors (LRV< 50) decrease span between joints to a maximum of 12.2m (\approx 40') to accommodate thermal expansion and contraction.
Architectural Finish with StoCast	Installation of StoCast Wood	StoCast Wood with StoCast Wood Adhesive and top coat. Refer to StoCast Wood Application Guide for full installation.
Architectural Finish with StoCast	Installation of StoCast Brick	StoCast Brick with Sto-Bonding and Pointing Mortar. Refer to StoCast Brick Application Guide for full installation.



Table 1.1 - Testing & Listing Information

Feature	Description	Value
Listing	Fire Spread	NFPA 285, STO/CWP-30-01, CSI Section Numbers: 07 42 00 Wall Panels, 07 42 43 Composite Wall Panels.
Listing	Fire Spread	CAN / ULC S134, STO/CWP 25-02, CSI Section Numbers: 07 42 00 Wall Panels, 07 42 43 Composite Wall Panels
Listing	General U.S. Code Evaluation	Intertek Code Compliance Research Report 0454
Listing	National Technical Approval, Germany	DIBt Z-103-717, - Ventilated Rainscreen Cladding Façade System with Render Coating (DIN 18516)
Listing	Florida Product Approval	41659.1
Listing	Miami-Dade NOA	HVHZ design pressure rating +/- 80 lb/ft²
Test	Fire Resistance of Wall Assemblies	ASTM E119, Engineering Judgment by Jensen Hughes Fire Protection Consultants, will maintain fire resistance rating of backup wall
Test	Water Penetration Resistance	AAMA 509, water penetration rating, Class W1
Test	Ventilation	AAMA 509, ventilation rating V9
Test	Max. Wind Load Resistance (Ultimate wind load capacity)	ASTM E330, -7.66 kN/m² (160 lb/ft²)



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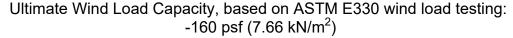


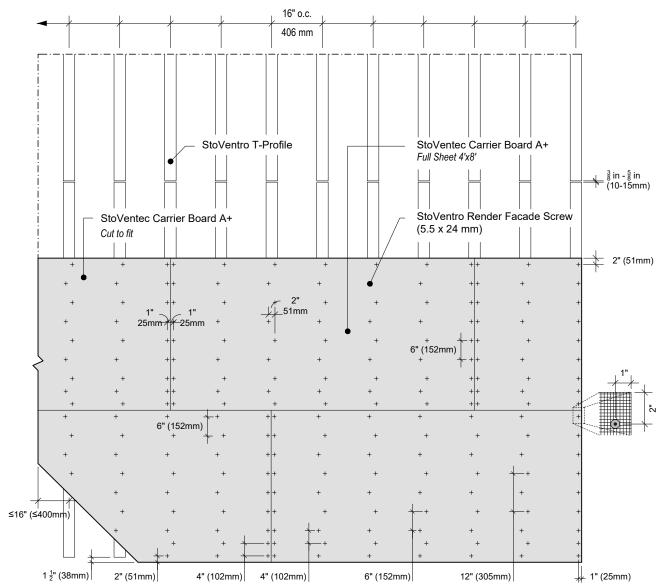
Elevation View

StoVentec Carrier Board A+ (4 x 8 feet) Attachment (6 inch max. fastener spacing) to StoVentro [™] T-Profile, spaced at 16" o.c.(406mm), Field and Edge fastening of StoVentec Carrier Board A+ to StoVentro T-Profiles.

Date: December 2023

Detail No.: 90.R.001





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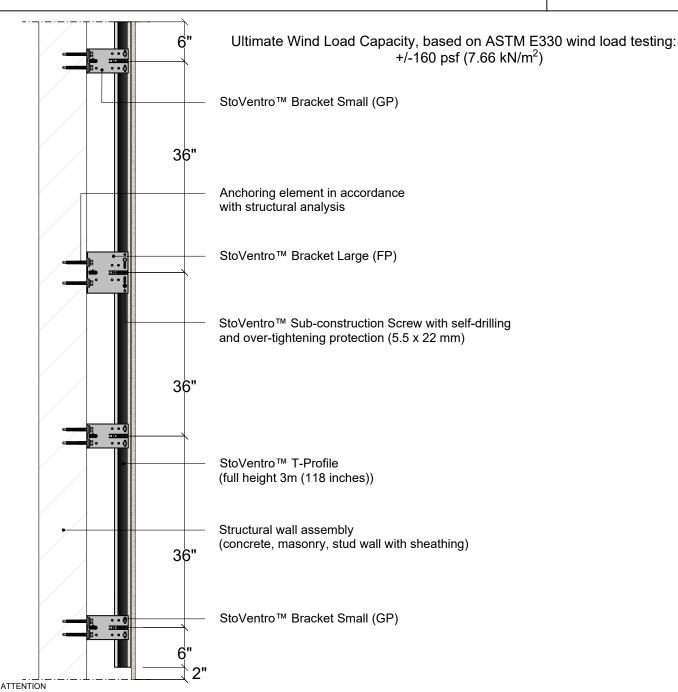


StoVentro[™] Bracket Installation, spaced at 36" o.c. (914mm) max.

Date: December 2023

Section View - NTS

Detail No.: 90.R.002



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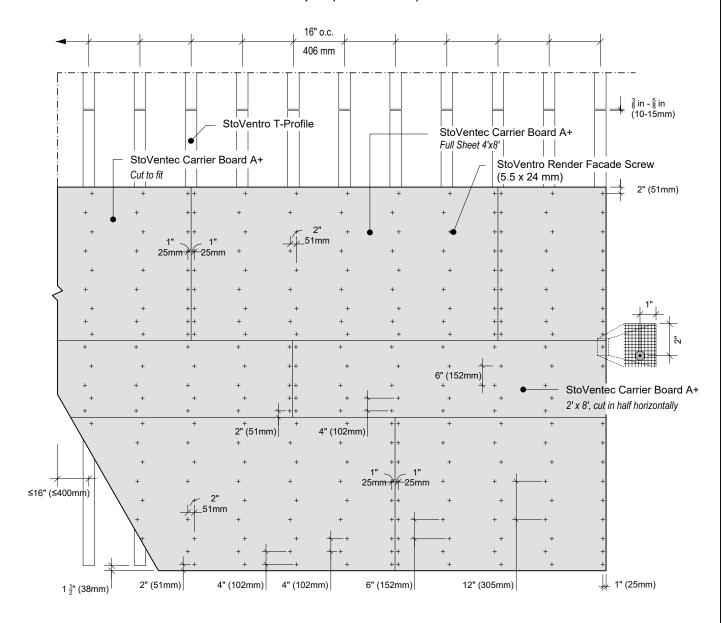
StoVentec Carrier Board A+ attachment (max. 6" screw spacing) to StoVentro[™] T-Profiles, 4'x8' & 2'x8' sheets, spaced at 16" o.c. (406mm). Field and Edge fastening of StoVentec Carrier Board A+ to StoVentro T-Profiles

Elevation View

Date: December 2023

Detail No.: 90.R.003

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing: -160 psf (7.66 kN/m²)



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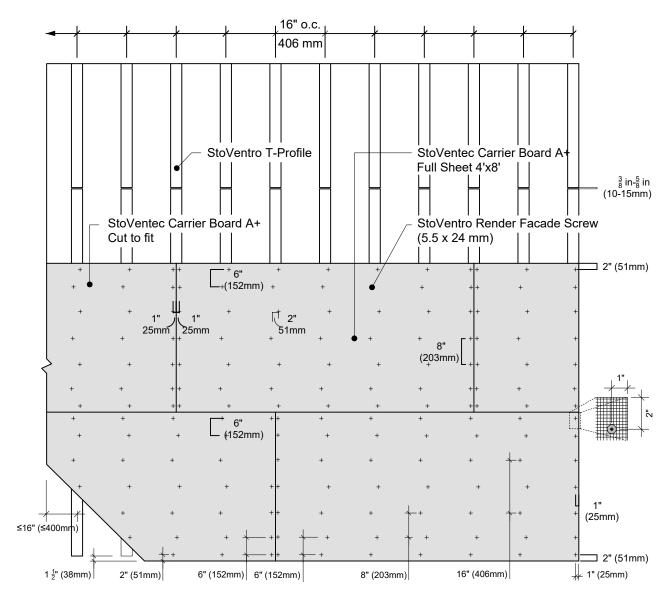
Elevation View

StoVentec Carrier Board A+ (4x8 feet) Attachment (8 inch max. fastener spacing) to StoVentro [™] T-Profile, spaced at 16" o.c.(406mm), Field and Edge fastening of StoVentec Carrier Board A+ to StoVentro T-Profiles.

Date: December 2023

Detail No.: 90.R.004

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing: -120 psf (5.75 kN/m²)



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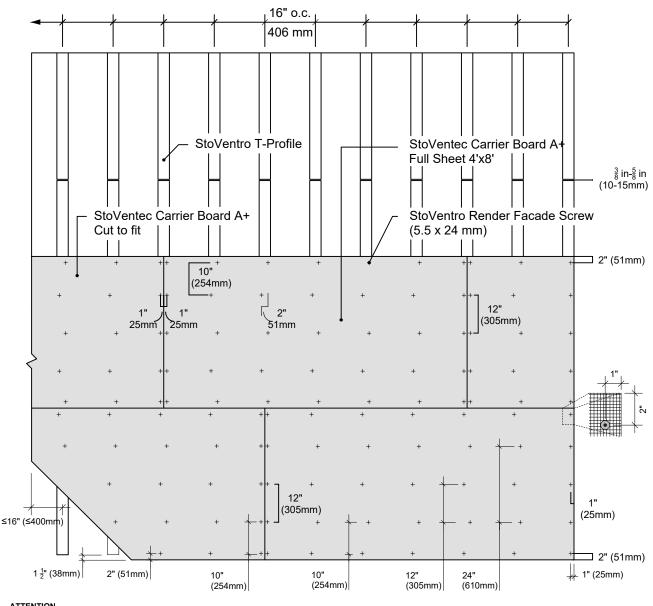
StoVentec Carrier Board A+ (4x8 feet) Attachment (12 inch max. fastener spacing) to StoVentro[™] T-Profile, spaced at 16" o.c.(406mm), Field and Edge fastening of StoVentec Carrier Board A+ to StoVentro T-Profiles.

Date: December 2023

Detail No.: 90.R.005

Elevation View

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing: -85 psf (4.07 kN/m²)



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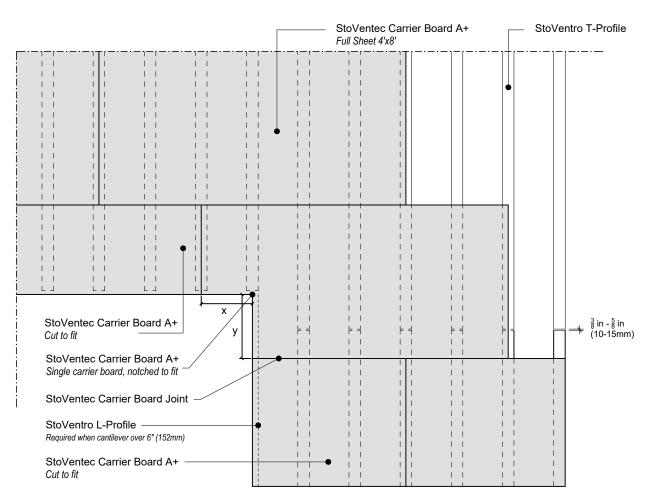


StoVentec Carrier Board A+ attachment at windows or openings

Date: November 2021

Elevation View

Detail No.: 90.R.010



Installation Requirement

At windows and openings, a single StoVentec Carrier Board A+ must be notched to fit opening. Do not align board joints with corners of opening, (x and y axis) no less than 8" (203mm) in either direction.

Carrier boards must remained staggered (in a running bond) with butt ends centered horizontally on the mounting surface of the 3-9/16" (90 mm) wide vertically oriented StoVentro T-profiles.

Some carrier boards will need to be cut to fit.

L-Profiles are required when cantilever over 6" (152mm) to 16" (406mm). At 16" (406mm), place another T-Profile. See detail 90.R.049 for maximum distances based on design pressures.

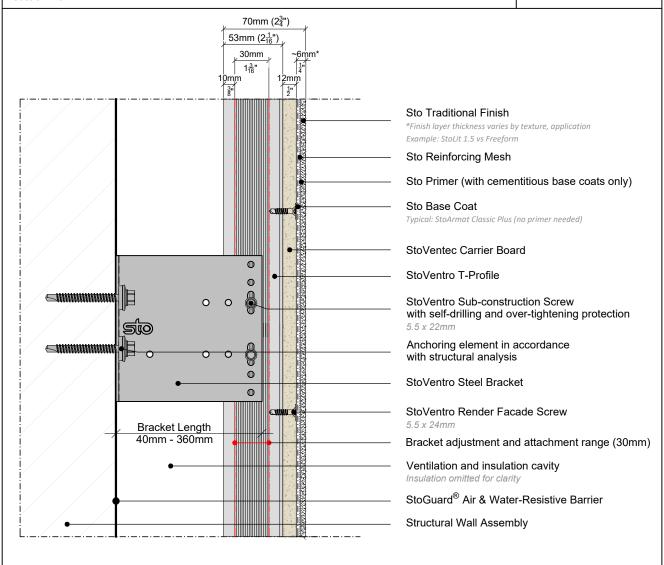
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System buildup with Traditional Finish StoVentro Steel Brackets (Zn-Al-Mg Coated or Stainless) Section View Date: October 2025

Detail No.: 90.R.012



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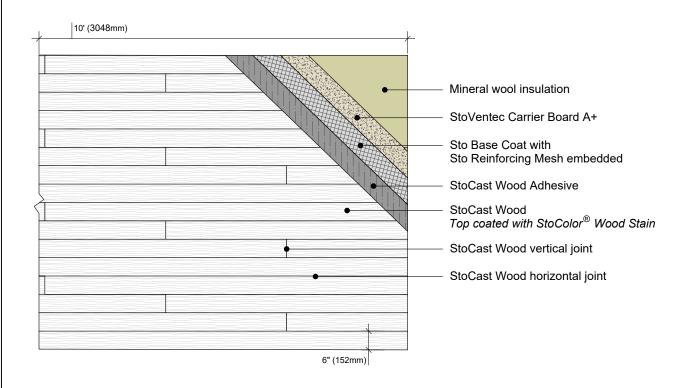


StoCast Wood Horizontal Installation with vertical and horizontal joints shown

Date: November 2021

Elevation View

Detail No.: 90.R.020A



Application Steps

- Follow application steps in the StoCast Wood Application Guide.
- Always start installation from the top and leave the appropriate space between StoCast Wood planks.
- Coat with StoColor Wood Stain or other Sto top coat
- Reference StoCast Wood webpage to view the standard StoColor Wood Stains.

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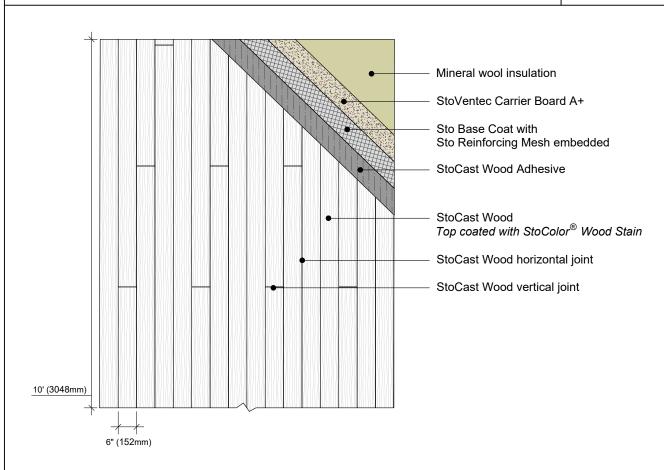


StoCast Wood Vertical Installation with vertical and horizontal joints shown

Detail No.: 90.R.020B

Date: November 2021

Elevation View



Application Steps

- Follow application steps in the StoCast Wood Application Guide.
- Always start installation from the top and leave the appropriate space between StoCast Wood planks.
- Coat with StoColor Wood Stain or other Sto top coat
- Reference StoCast Wood website to view the standard StoColor Wood Stains.

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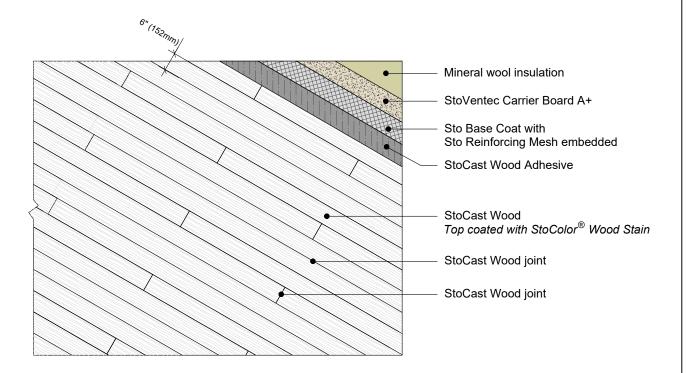


Date: November 2021

StoVentec® Render

StoCast Wood Angled Installation with vertical and horizontal joints shown

Elevation View Detail No.: 90.R.020C



Application Steps

- Follow application steps in the StoCast Wood Application Guide.
- Always start installation from the top, working downwards.
- Coat with StoColor Wood Stain or other Sto top coat
- Reference StoCast Wood website to view the standard StoColor Wood Stains.

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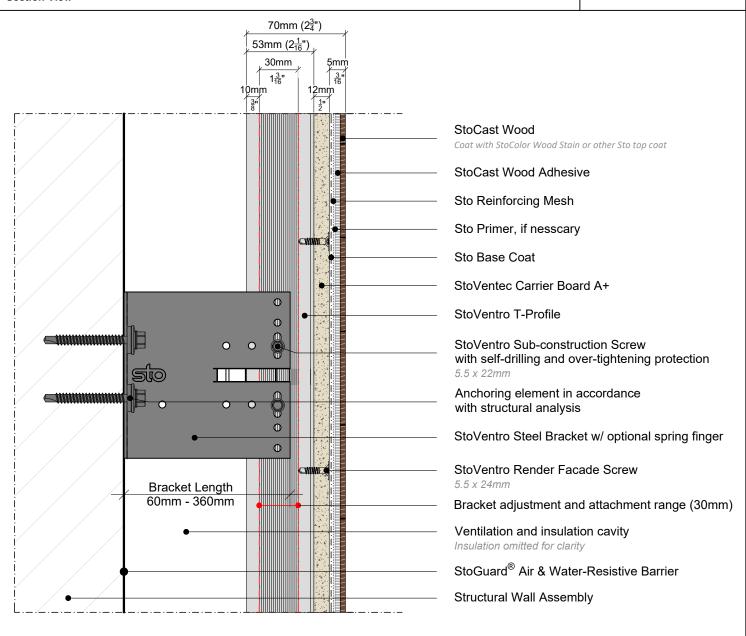


System buildup with StoCast Wood Steel Brackets

Section View

Date: November 2021

Detail No.: 90.R.021



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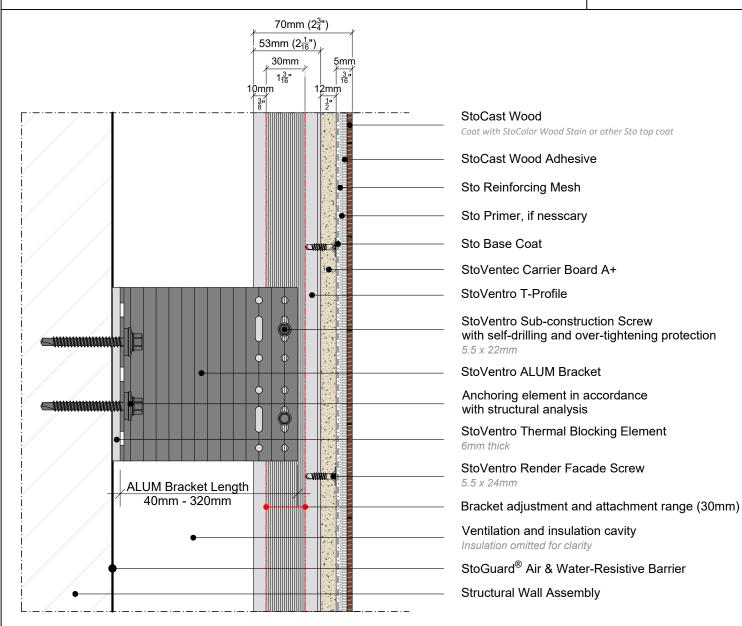


System buildup with StoCast Wood Aluminum Brackets

Section View

Date: November 2021

Detail No.: 90.R.022



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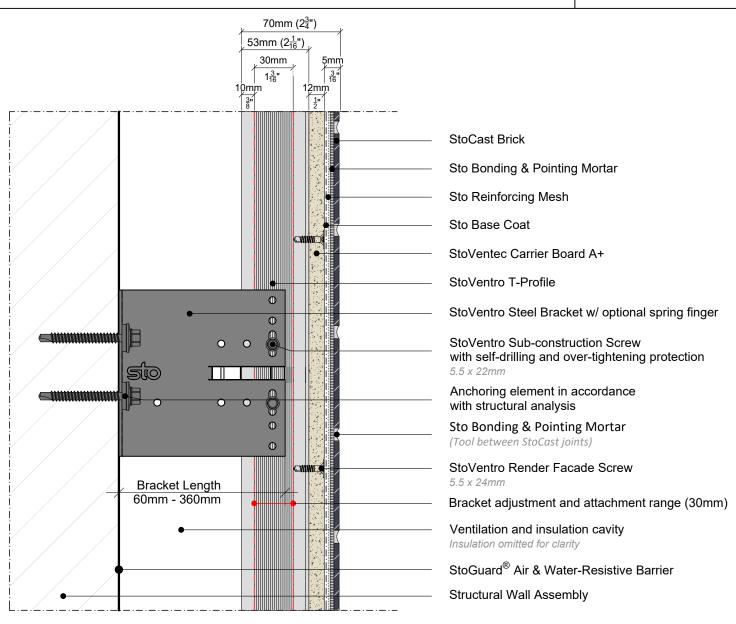


System buildup with StoCast Brick Steel Brackets

Section View

Date: November 2021

Detail No.: 90.R.024



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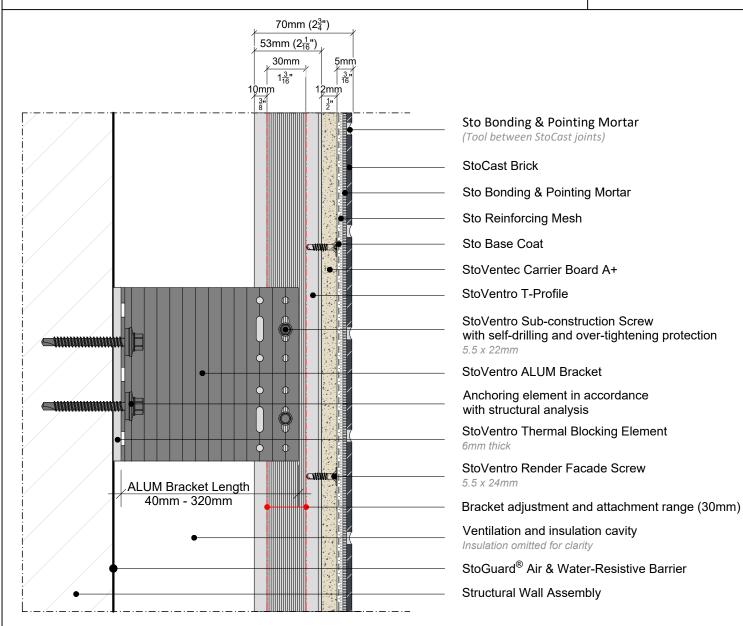


System buildup with StoCast Brick Aluminum Brackets

Section View

Date: November 2021

Detail No.: 90.R.025



ATTENTION

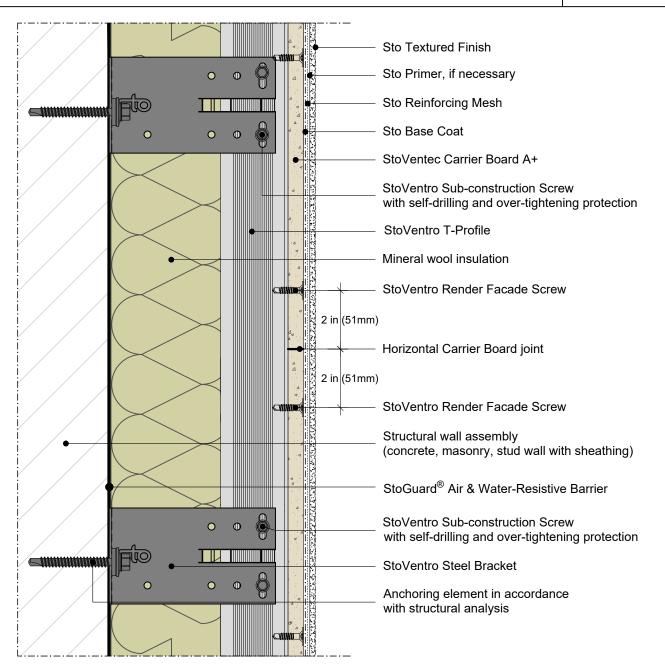
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StoVentec Carrier Board A+ Installation at Horizontal Board Joint

Date: November 2021

Section View Detail No.: 90.R.030



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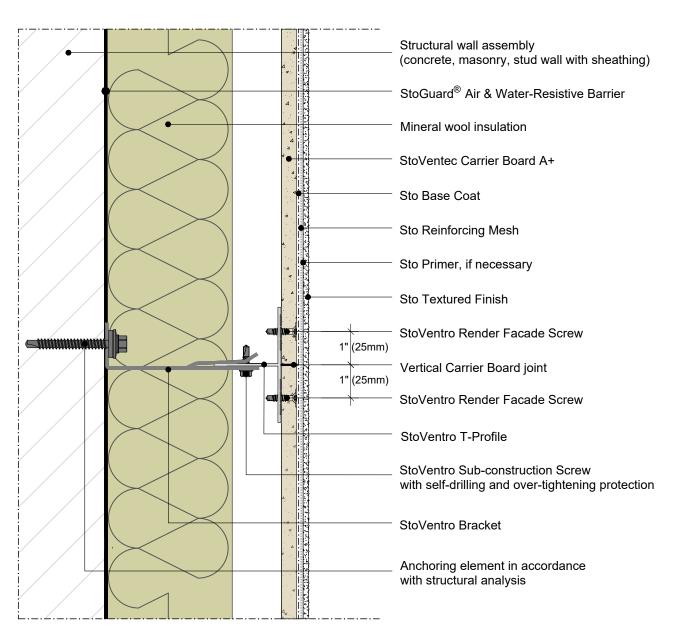


StoVentec Carrier Board A+ Installation at Vertical Board Joint

Date: November 2021

Detail No.: 90.R.031

Plan View



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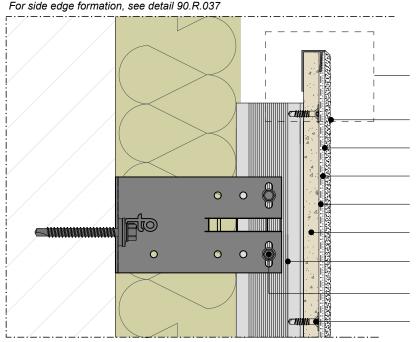
Section View

System top edge formations with surrounding Sto Edge Protection Profiles

Date: November 2021

Detail No.: 90.R.035

For bottom edge formation, see detail 90.R.036



See Edge Formation Options Below

Sto Textured Finish

Sto Primer, if necessary

Sto Reinforcing Mesh

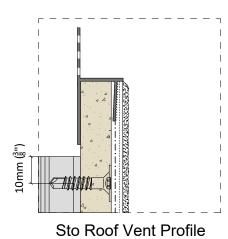
Sto Base Coat over Sto Primer

StoVentec Carrier Board A+

StoVentro T-Profile

StoVentro Sub-construction Screw with self-drilling and over-tightening protection

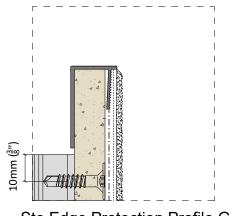
StoVentro Render Facade Screw



Typically used at top of system, soffits, and sills with flashing



Typically used at top of system, soffits, and sills with flashing



Sto Edge Protection Profile G

Typically used at top of system, soffits,
and sills with flashing

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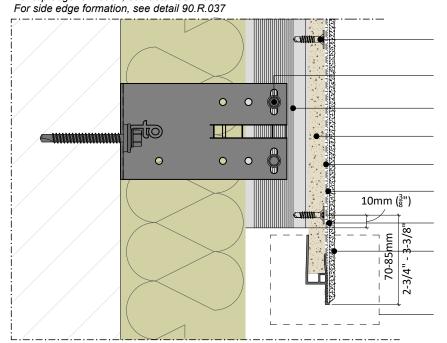
Section View

System bottom edge formations with surrounding Sto Edge Protection Profiles

Date: November 2021

Detail No.: 90.R.036

For top edge formation, see detail 90.R.035



StoVentro Render Facade Screw

StoVentro Sub-construction Screw with self-drilling and over-tightening protection

StoVentro T-Profile

StoVentec Carrier Board A+

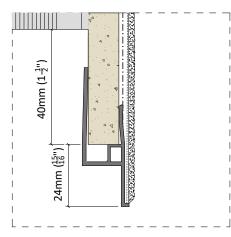
Sto Base Coat over Sto Primer

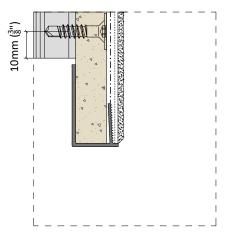
Sto Reinforcing Mesh

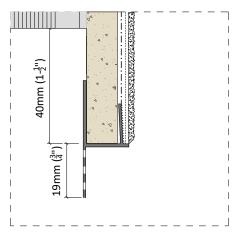
Sto Primer, if necessary

Sto Textured Finish

See Edge Formation Options Below







Sto Edge Protection Profile GT

Typically used at bottom edge of expansion joints and bottom of system

Sto Edge Protection Profile G

Typically used at bottom edge of expansion joints and bottom of system

Sto Roof Vent Profile

Typically used at bottom of system when a bug screen is needed

ATTENTION

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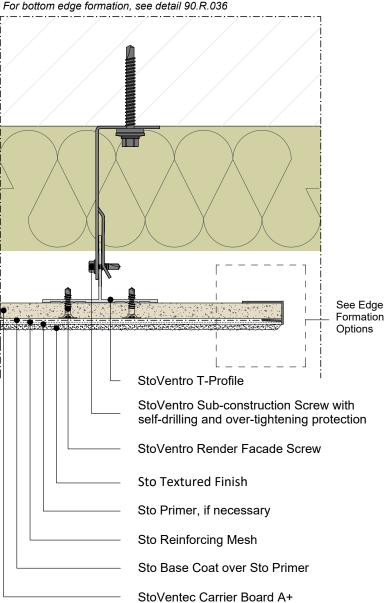
Plan View

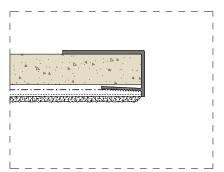
System side edge formations with surrounding Sto Edge Protection Profiles

Date: November 2021

Detail No.: 90.R.037

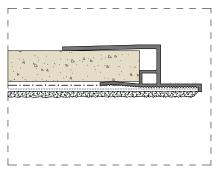
For top edge formation, see detail 90.R.035





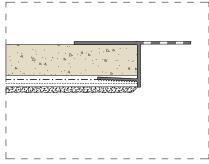
Sto Edge Protection Profile G

Typically used at inside corners, transitions to alternative claddings, and window jambs



Sto Edge Protection Profile GT

Typically used at inside corners, transitions to alternative claddings, and window jambs



Sto Roof Vent Profile

Typically used at inside corners, transitions to alternative claddings, and window jambs

ATTENTION

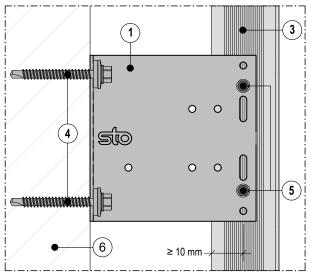
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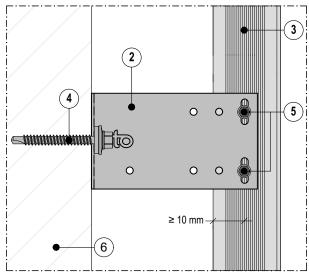
StoVentro™ Steel Brackets - Large (FP) and Small (GP), with attachment locations for fixed points and sliding points Section View

Date: January 2024

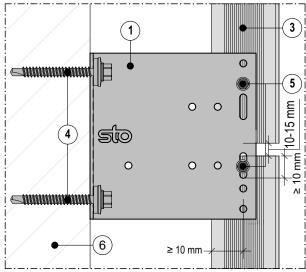
Detail No.: 90.R.045



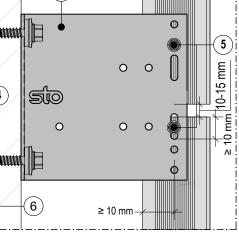
StoVentro™ Bracket - Large (FP) | Fixed point fastening



StoVentro™ Bracket - Small (GP) | Sliding point fastening



StoVentro™ Bracket - Large (FP) | Fixed & sliding point fastening

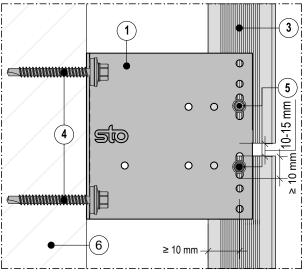


StoVentro™ Bracket Large (FP)

StoVentro™ Bracket Small (GP)

ATTENTION

- StoVentro™ T-Profile
- Anchoring element in accordance with structural analysis



StoVentro™ Bracket - Large (FP) | Sliding point fastening

- StoVentro™ Sub-construction Screw with self-drilling and over-tightening protection (5.5 x 22 mm)
- Structural wall assembly (concrete, masonry, stud wall with sheathing)

Note: All values are subject to structural analysis.

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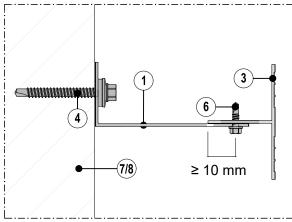
StoVentro™ Steel Brackets - Large (FP) and Small (GP) attachment locations

Elevation & Plan Views

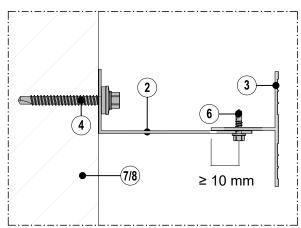
Date: January 2024

Detail No.: 90.R.046

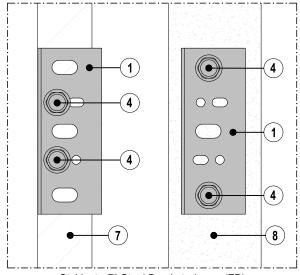
Note: All values are subject to structural analysis.



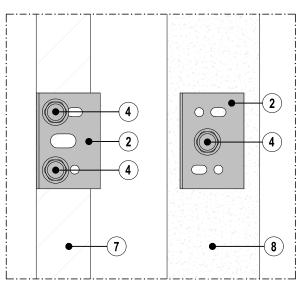
StoVentro[™] Steel Bracket - Large (FP) Plan View Attachment



StoVentro[™] Steel Bracket - Small (GP) Plan View Attachment



StoVentro™ Steel Bracket - Large (FP) Elevation View Attachment



StoVentro™ Steel Bracket - Small (GP) Elevation View Attachment

- 1 StoVentro™ Bracket Large (FP)
- 2 StoVentro™ Bracket Small (GP)
- 3 StoVentro™ T-Profile
- Anchoring element in accordance with structural analysis
- 6 StoVentro™ Sub-construction Screw with self-drilling and over-tightening protection (5.5 x 22 mm)
- 7 Structural wall assembly (stud wall with sheathing)
- (8) Structural wall assembly (concrete and masonry)

ATTENTION

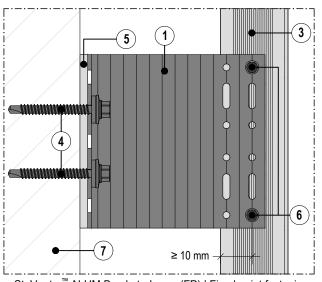
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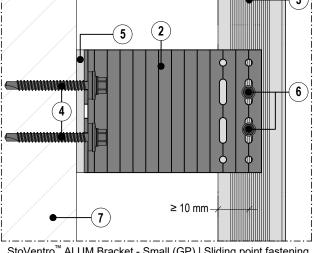


StoVentro™ Aluminum Brackets - Large (FP) and Small (GP), with attachment locations for fixed points and sliding points

Section View Detail No.: 90.R.047

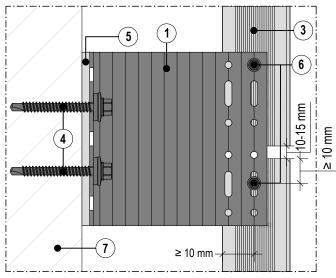
Date: November 2021

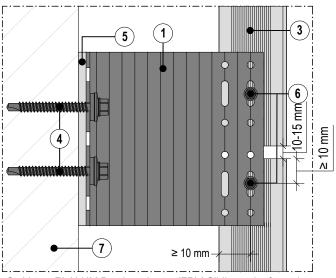




StoVentro[™] ALUM Bracket - Large (FP) | Fixed point fastening

StoVentro[™] ALUM Bracket - Small (GP) | Sliding point fastening





StoVentro™ ALUM Bracket - Large (FP) | Fixed & sliding point fastening StoVentro™ ALUM Bracket - Large (FP) | Sliding point fastening

- StoVentro™ ALUM Bracket Large (FP)
- StoVentro™ ALUM Bracket Small (GP)
- (3) StoVentro™ T-Profile
- Anchoring element in accordance with structural analysis
- StoVentro™ Thermal **Blocking Element**
- StoVentro™ Sub-construction Screw with self-drilling and over-tightening protection (5.5 x 22 mm)
- Structural wall assembly (concrete, masonry, stud wall with sheathing)

Note: All values are subject to structural analysis.

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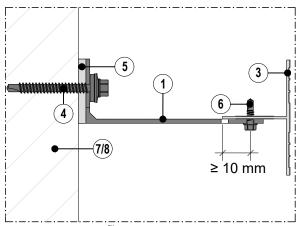
StoVentro™ Aluminum Brackets - Large (FP) and Small (GP) attachment locations

Elevation & Plan Views

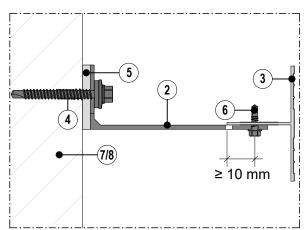
Date: November 2021

Detail No.: 90.R.048

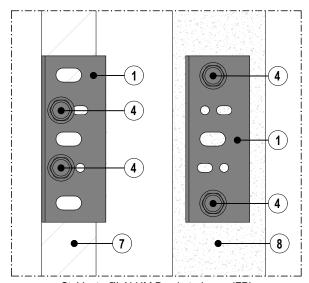
Note: All values are subject to structural analysis.



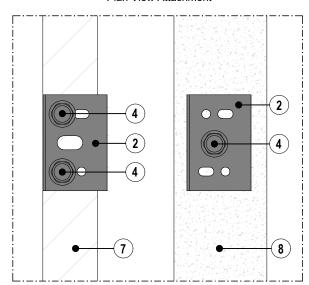
StoVentro[™] ALUM Bracket - Large (FP)
Plan View Attachment



StoVentro[™] ALUM Bracket - Small (GP) Plan View Attachment



StoVentro™ ALUM Bracket - Large (FP) Elevation View Attachment



StoVentro™ ALUM Bracket - Small (GP) Elevation View Attachment

- 1 StoVentro™ ALUM Bracket Large (FP)
- 2 StoVentro™ ALUM Bracket Small (GP)
- 3 StoVentro™ T-Profile
- Anchoring element in accordance with structural analysis
- 5 StoVentro™ Thermal Blocking Element
- 6 StoVentro™ Sub-construction Screw with self-drilling and over-tightening protection (5.5 x 22 mm)
- 7) Structural wall assembly (stud wall with sheathing)
- (8) Structural wall assembly (concrete and masonry)

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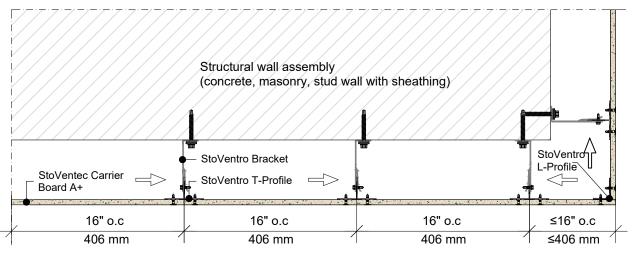


StoVentro[™] Sub-construction Installation at outside corners, jambs, returning transitions, and transitions to alternative cladding Plan View

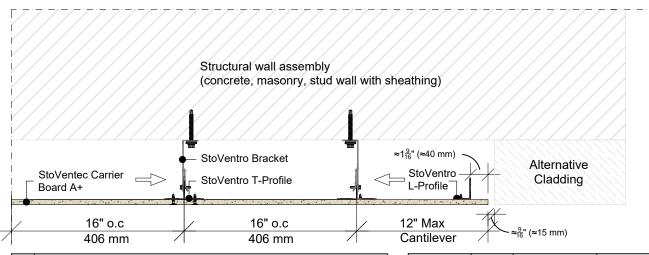
Date: November 2021

Detail No.: 90.R.049

Recommended fastening direction for connection of the StoVentro[™] Wall Brackets to the StoVentro [™] T-profile and alignment of the wall brackets



1 StoVentro[™] Wall Brackets and T-Profile alignment and requirements at outside corners, jambs and returning transitions.



2 StoVentro[™] Wall Brackets, T-Profiles, and L-Profile alignment and requirements at returning transitions and transitions to alternative cladding

Cantilever	L-Profile Required		Rated wind resistance [kN/m²]
6 in (154mm)	No	68.9	3.3
8 in (200mm)	Yes	81.4	3.9
12 in (300mm)	Yes	50.1	2.4

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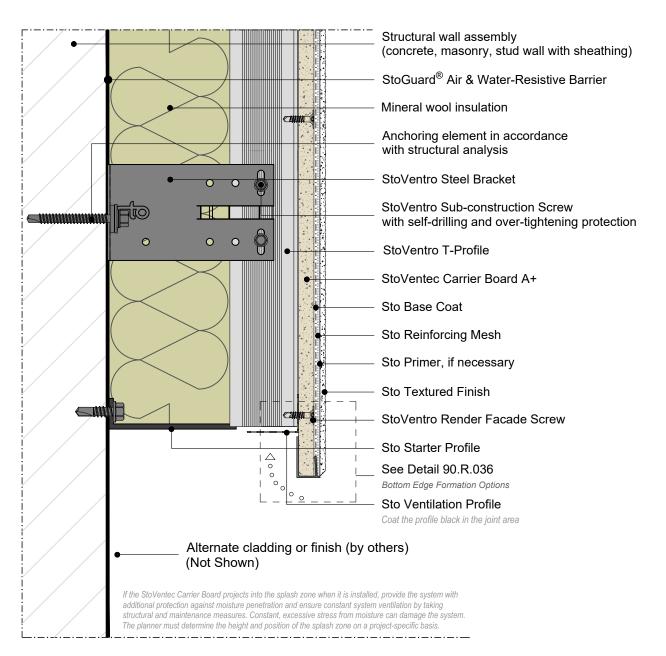


Installation at grade with Sto Ventilation Profile (exposed substrate at grade)

Section View

Date: November 2021

Detail No.: 90.R.055



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StoVentec® Render

Installation at grade with Sto Ventilation Profile

Section View Detail No.: 90.R.065

Structural wall assembly (concrete, masonry, stud wall with sheathing) StoGuard® Air & Water-Resistive Barrier Mineral wool insulation Anchoring element in accordance with structural analysis StoVentro T-Profile StoVentro Steel Bracket StoVentro Sub-construction Screw \mathbb{R} with self-drilling and over-tightening protection StoVentec Carrier Board A+ StoVentro Render Facade Screw Sto Base Coat Sto Reinforcing Mesh Sto Primer, if necessary Sto Textured Finish Ensure air and moisture barrier continuity with StoGuard L Flashing to support Ventilation Profile (by others) Compatible foundation waterproofing Rigid Insulation with protective cover (by others) See Detail 90.R.036 Bottom Edge Formation Options Sto Ventilation Profile Coat the profile black in the joint area

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

ATTENTION

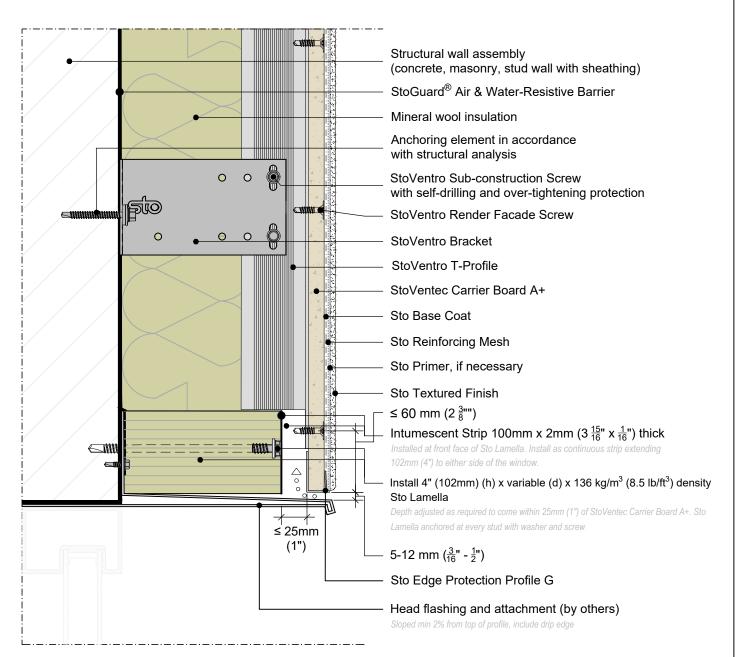
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Fire protection at Window Head with Sto Lamella and Intumescent Tape CAN ULC S134 Compliant, Intertek Design Listing No. STO/CWP 25-01 NFPA 285 Compliant, Intertek Design Listing No. STO/CWP 30-02 Section View

Date: August 2024

Detail No.: 90.R.080



ATTENTION

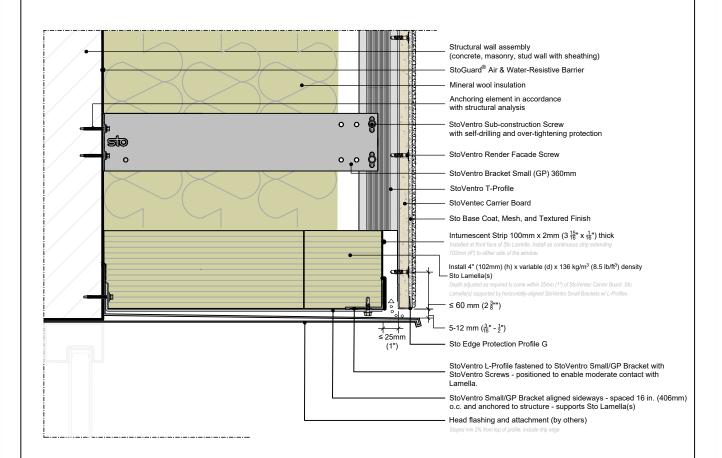
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Fire protection at Window Head with Sto Lamella and Intumescent Tape CAN ULC S134 Compliant, Intertek Design Listing No. STO/CWP 25-01 NFPA 285 Compliant, Intertek Design Listing No. STO/CWP 30-02 Section View

Date: December 2024

Detail No.: 90.R.080A



ATTENTION

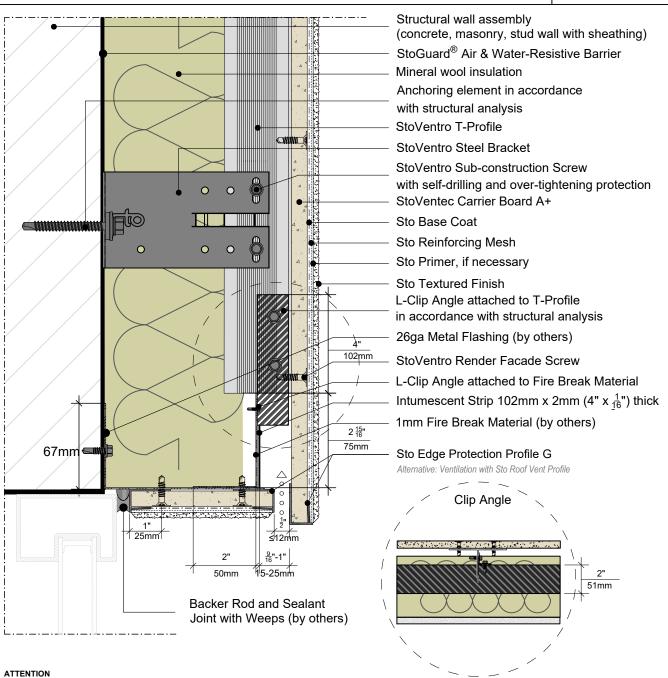
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Fire protection at Window Head with Fire Break Material CAN ULC S134 Compliant, Intertek Deisgn Listing No. STO/CWP 25-01 NFPA 285 Compliant, Intertek Design Listing No. STO/CWP 30-02 Section View

Date: November 2021

Detail No.: 90.R.081



ATTENTION

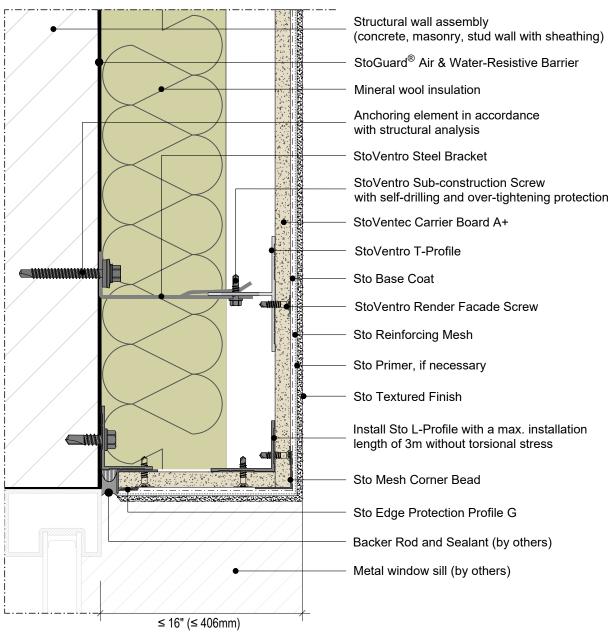
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Window Jamb

Date: November 2021

Plan View Detail No.: 90.R.085



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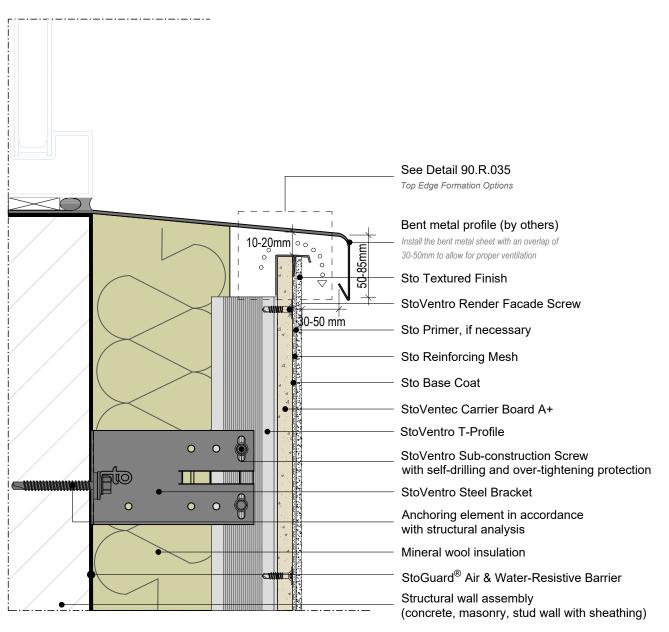


Window Sill

Section View

Date: November 2021

Detail No.: 90.R.090



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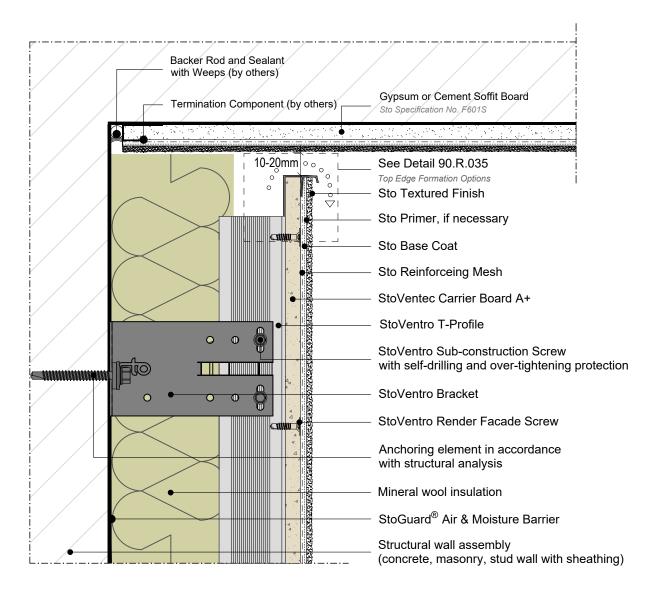


Soffit or Ceiling Installation - Not Insulated (Unconditioned)
StoVentec Render and Sto Direct-applied Finish System for Soffits and Ceilings
Section View

Date: November 2021

Detail No.: 90.R.161

Note: Direct-applied Exterior Finish System (DEFS) for use on weather protected walls and vented uninsulated exterior soffit and ceiling applications.



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Vertical wall to Soffit or Ceiling Installation - Insulated (Conditioned)

Detail No.: 90.R.162

Date: November 2021

Section View

Insulation Dowel (by others) Structural wall assembly (concrete, masonry, stud wall with sheathing) Anchoring element in accordance with structural analysis Mineral wool insulation ≈40mm 50-85mm 10-20mm See Detail 90.R.037 & 90.R.035 Side Edge & Top Edge Formation Options StoVentro Sub-construction Screw with self-drilling and over-tightening protection StoVentro T-Profile StoVentro Bracket StoVentec Carrier Board A+ 0 Sto Base Coat StoVentro Render Facade Screw Sto Reinforcing Mesh Sto Primer, if necessary Sto Textured Finish Anchoring element in accordance with structural analysis

ATTENTION

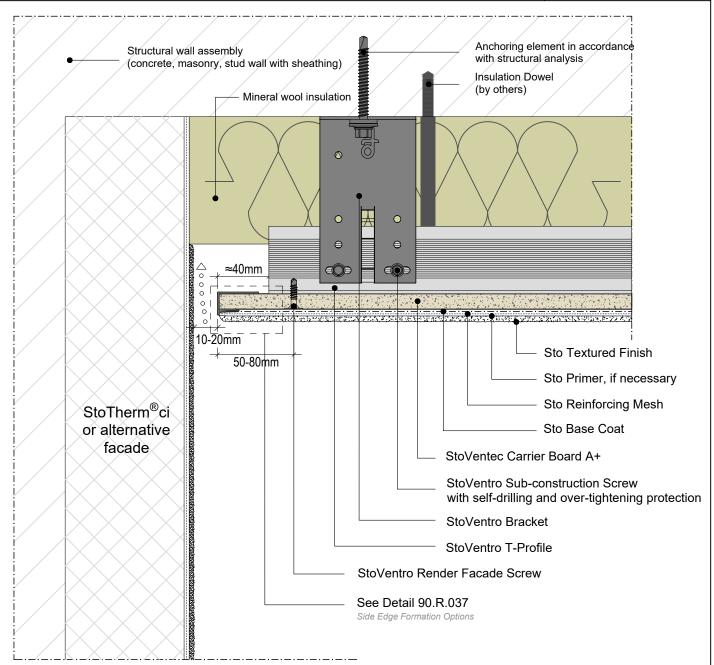
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Alternative Facade to Soffit or Ceiling Installation - Insulated (Conditioned)

Date: November 2021

Section View Detail No.: 90.R.163



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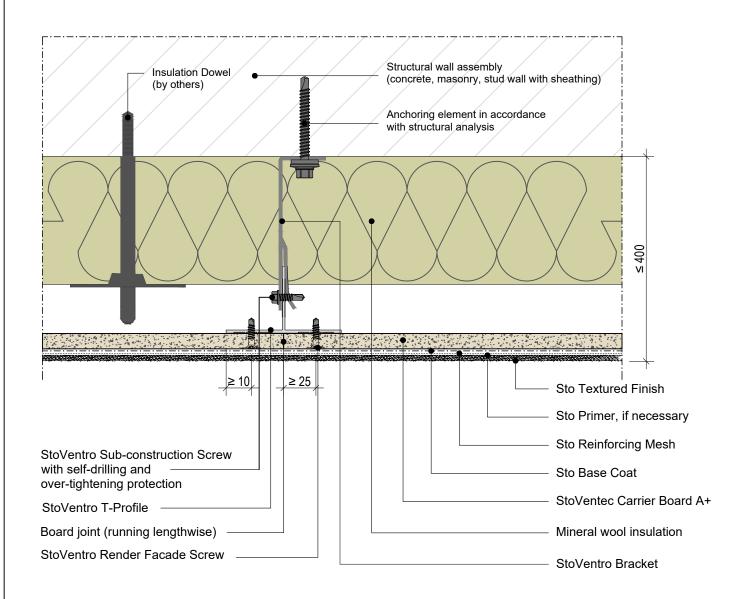


StoVentec® Render

Soffit or Ceiling Installation - Insulated (Conditioned)

Detail No.: 90.R.165

Section View



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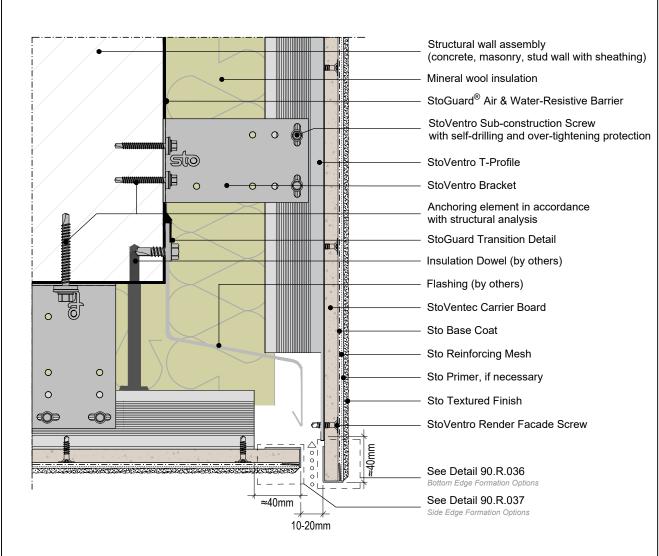


Soffit or Ceiling transition to Vertical Wall Installation - Insulated (Conditioned)

Detail No.: 90.R.170

Date: October 2025

Section View



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VR-SAR-1005

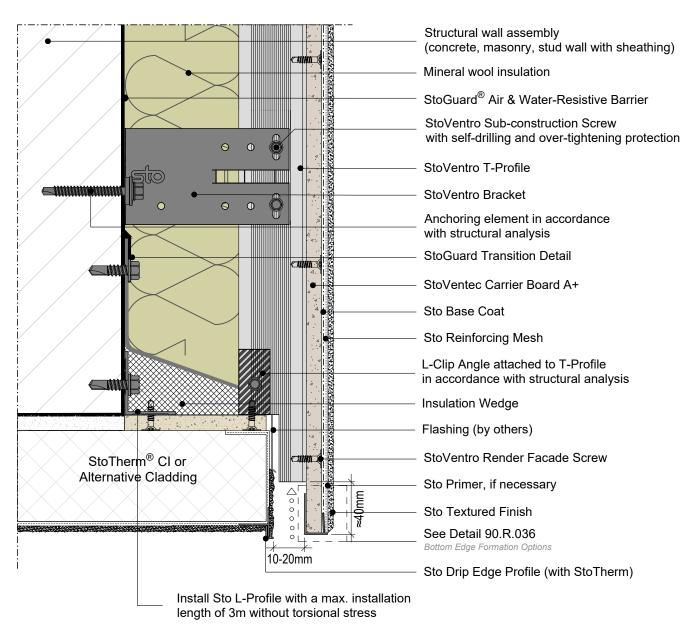


Alternative Soffit or Ceiling transition to Vertical Wall Installation Insulated (Conditioned)

Section View

Date: November 2021

Detail No.: 90.R.171



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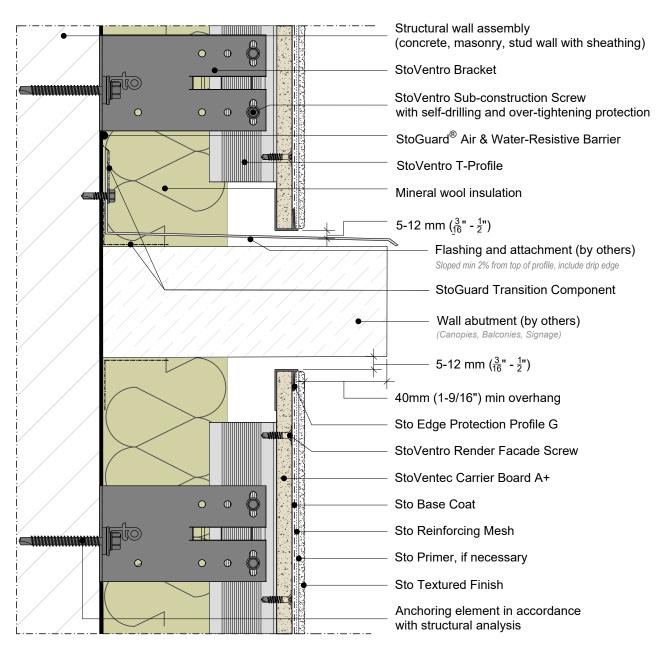


Wall abutment/attachment through cladding flashed with open joints

Section View

Date: November 2021

Detail No.: 90.R.140



ATTENTION

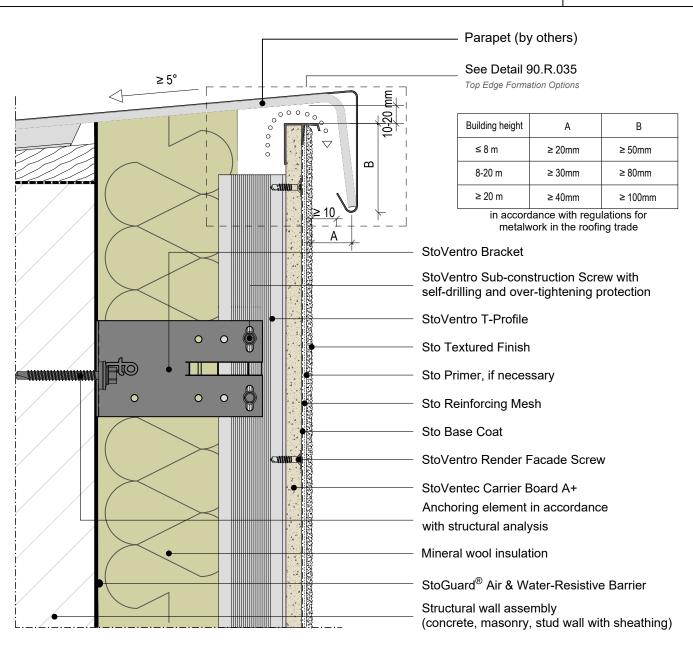
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StoVentec® Render

Parapet with 10mm ventilation gap

Section View Detail No.: 90.R.180



ATTENTION

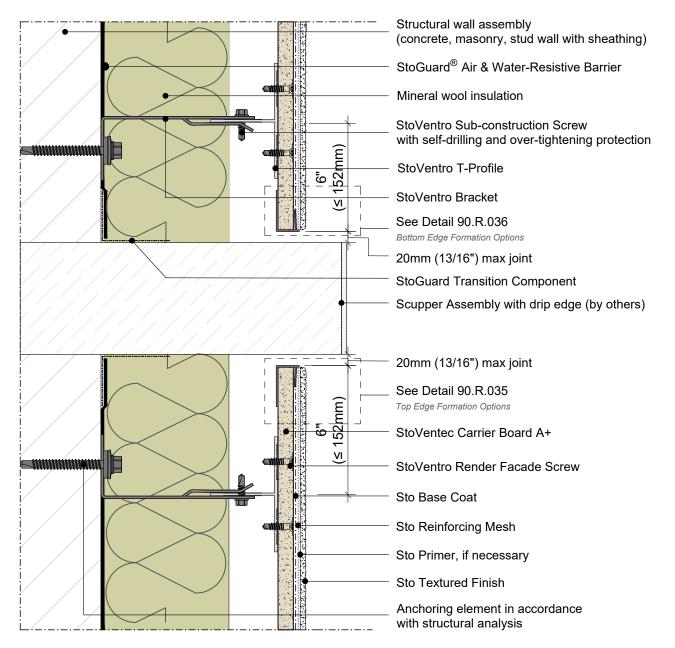
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StoVentec® Render

Scupper Penetration with Open Joints

Plan View Detail No.: 90.R.300



ATTENTION

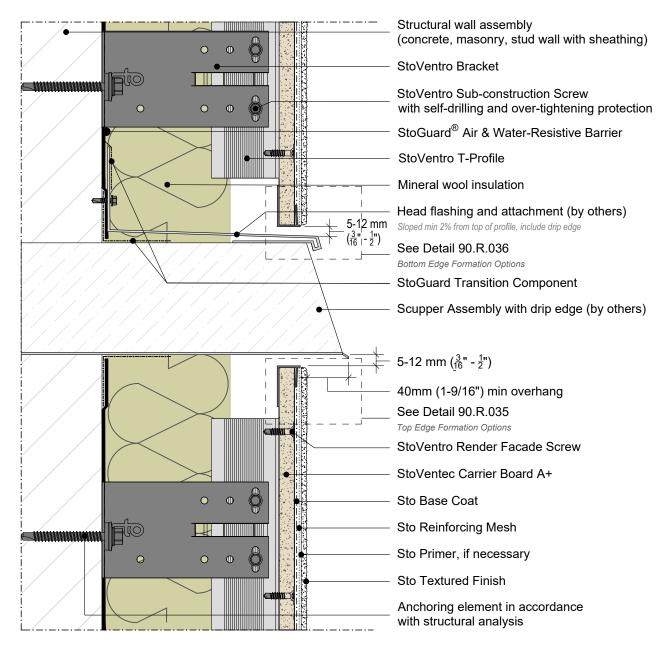
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StoVentec® Render

Scupper Penetration, Flashing with Open Joints

Section View Detail No.: 90.R.301



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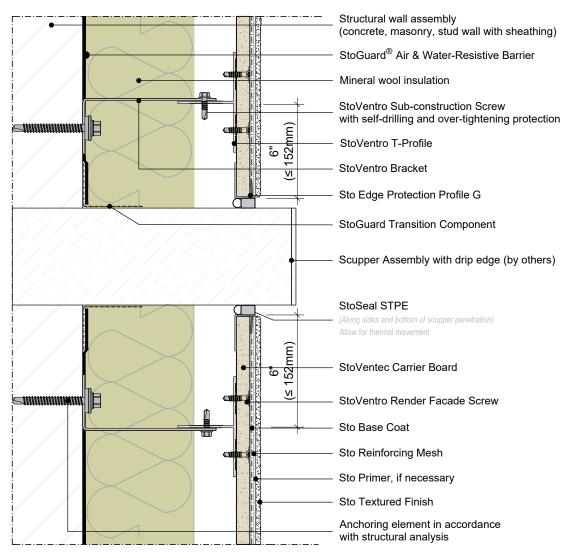


Date: October 2025

StoVentec® Render

Scupper Penetration with StoSeal STPE

Plan View Detail No.: 90.R.302



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GENV-RC-SAR-950



Date: October 2025

StoVentec® Render

Scupper Penetration, Flashing with StoSeal STPE under Scupper

Section View Detail No.: 90.R.303

Structural wall assembly (concrete, masonry, stud wall with sheathing) 0 0 StoVentro Bracket StoVentro Sub-construction Screw with self-drilling and over-tightening protection StoGuard® Air & Water-Resistive Barrier StoVentro T-Profile Mineral wool insulation Head flashing and attachment (by others) 5-12 mm (³/₁₆" - ¹/₂") StoGuard Transition Component Scupper Assembly with drip edge (by others) StoSeal STPE Allow for thermal movement 40mm (1-9/16") min overhang Sto Edge Protection Profile G StoVentro Render Facade Screw StoVentec Carrier Board Sto Base Coat Sto Reinforcing Mesh Sto Primer, if necessary Sto Textured Finish Anchoring element in accordance with structural analysis

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GENV-RC-SAR-950



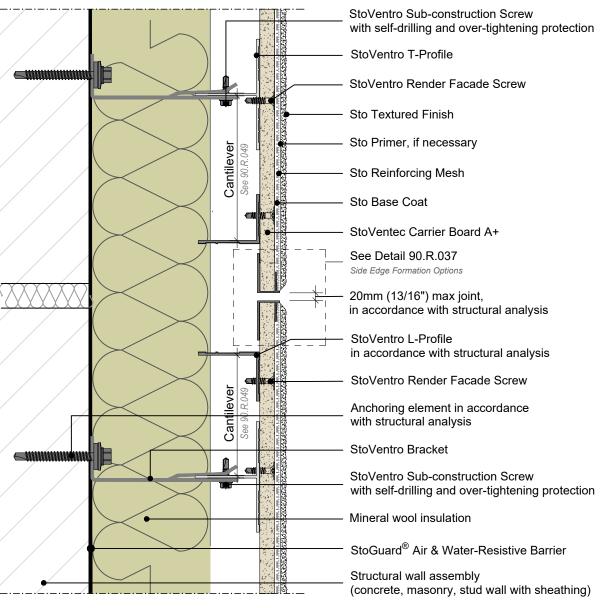
Wall Structural Joint

Plan View

Date: November 2021

Detail No.: 90.R.390

Note: Maximum span without joints: 25m (~82 feet), length to height ratio not in excess of 2:1.



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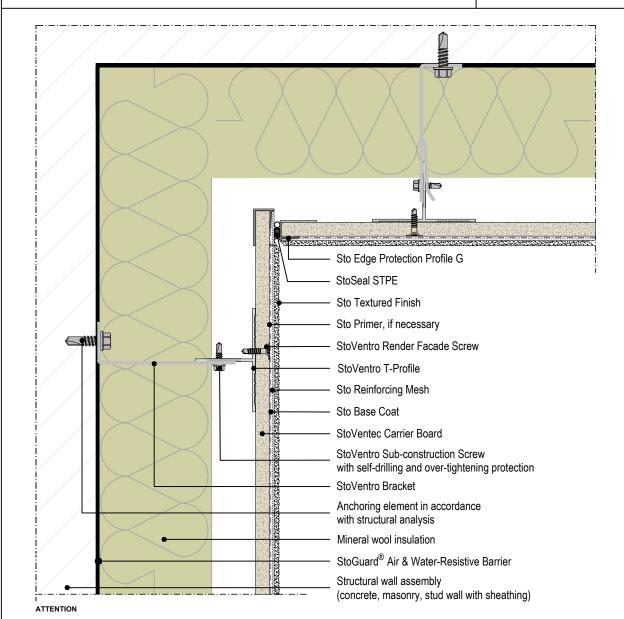


Date: October 2025

StoVentec[™] Render

Inside Corner with StoSeal STPE

Plan View Detail No.: 90.R.400



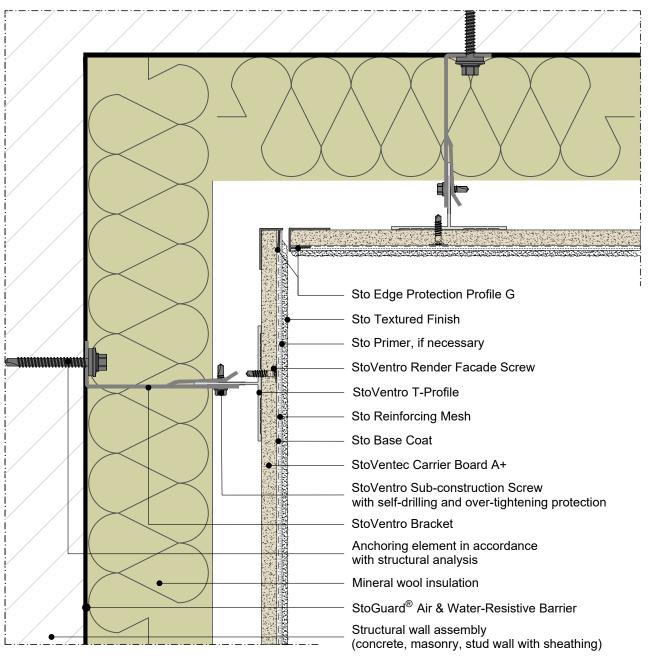
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StoVentec® Render

Inside Corner with open joint

Plan View Detail No.: 90.R.401



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Detail No.: 90.R.410

StoVentec[®] Render Outside Corner

Plan View

Structural wall assembly (concrete, masonry, stud wall with sheathing) StoGuard® Air & Water-Resistive Barrier Mineral wool insulation Anchoring element in accordance with structural analysis StoVentro Bracket StoVentro Sub-construction Screw with self-drilling and over-tightening protection StoVentro Render Facade Screw StoVentro T-Profile StoVentec Carrier Board A+ Sto Base Coat Sto Reinforcing Mesh Sto Primer, if necessary Sto Textured Finish Install Sto L-Profile with a max. installation length of 3m without torsional stress Sto Mesh Corner Bead

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Curved Outside Corner

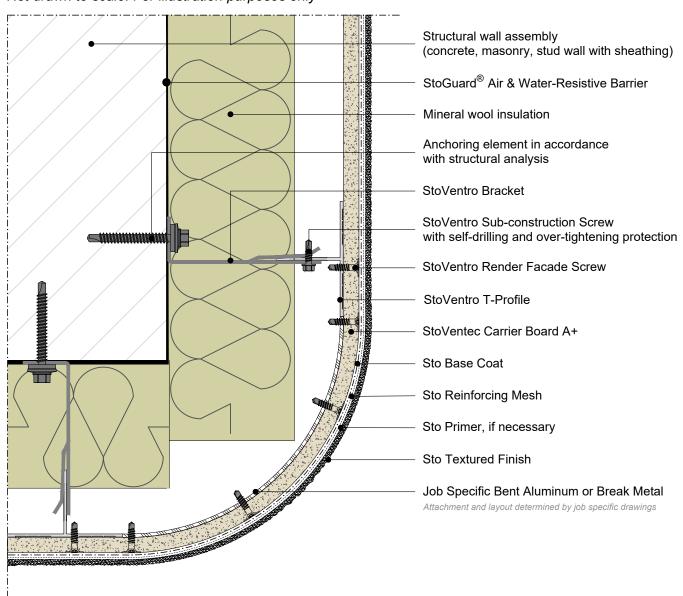
Radii greater than 8m (26ft) with no cuts to Carrier Board

Plan View

Date: November 2021

Detail No.: 90.R.415

Not drawn to scale. For illustration purposes only



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Curved Outside Corner

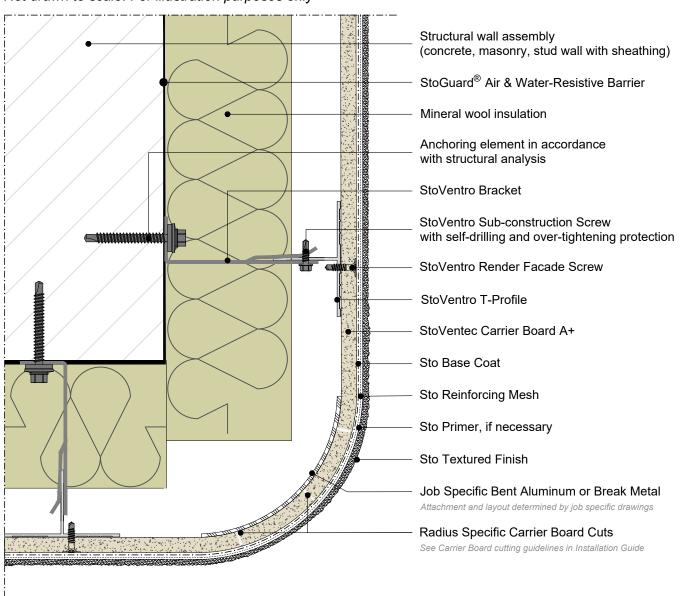
Radius greater than 0.5m (20in) to less than 8m (26ft) with cuts to Carrier Board

Plan View

Date: November 2021

Detail No.: 90.R.416

Not drawn to scale. For illustration purposes only



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Curved Outside Corner with Foam Insulation

Date: November 2021

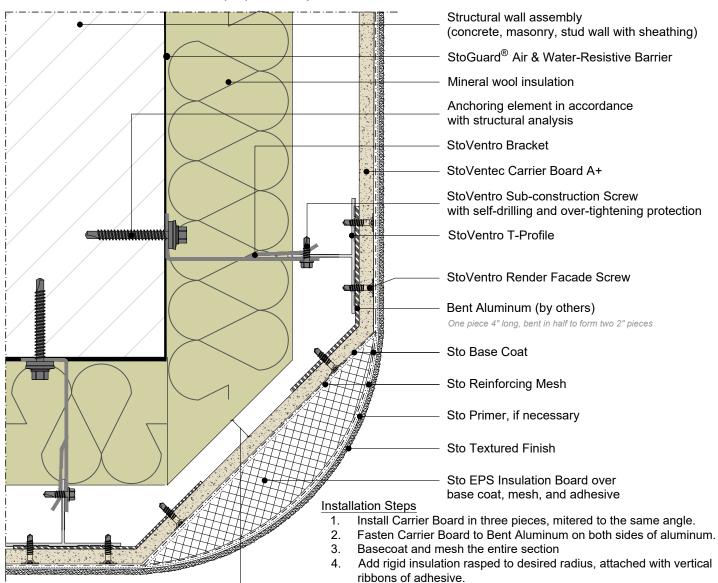
Detail No.: 90.R.417

Plan View

Not drawn to scale. For illustration purposes only

Maintain a min. $\frac{3}{8}$ " (10mm)

ventilation cavity



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Apply basecoat and mesh over rigid insulation

(102mm) or as determined by analysis.

Add desired Sto Texture Finish to entire section.

Allowable thickness of Sto EPS Insulation Board limited to 4"

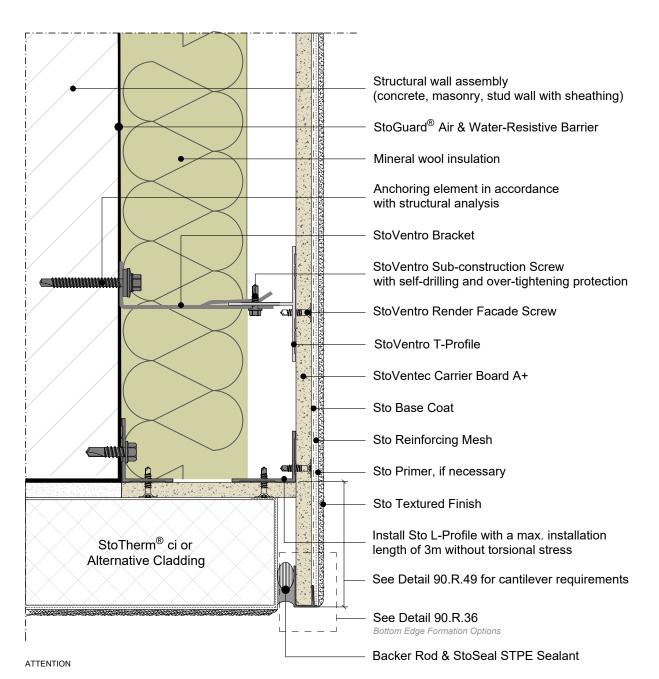


Installation at Outside Corner to alternative facade

Date: January 2024

Plan View

Detail No.: 90.R.419



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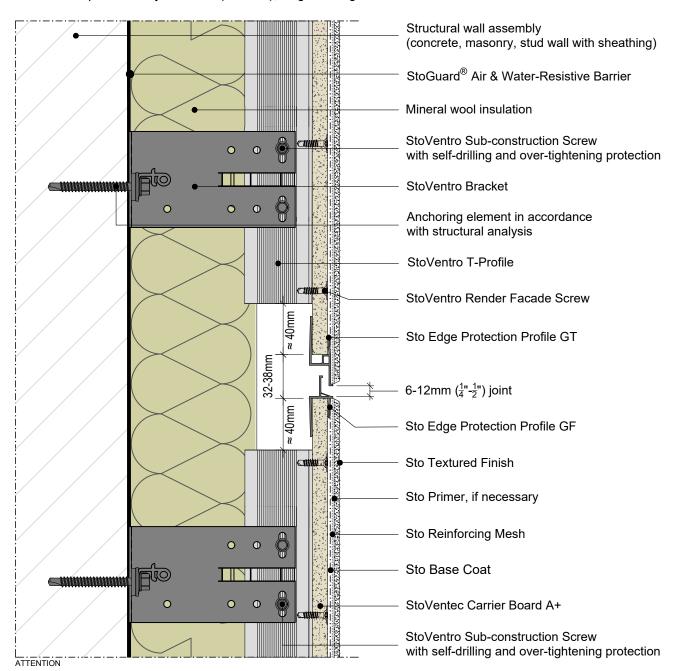


Horizontal Expansion Joint with Sto Edge Protection Profile GT to Sto Edge Protection Profile GF Section View

Date: November 2021

Detail No.: 90.R.450

Note: Maximum span without joints: 25m (~82 feet), length to height ratio not in excess of 2:1.



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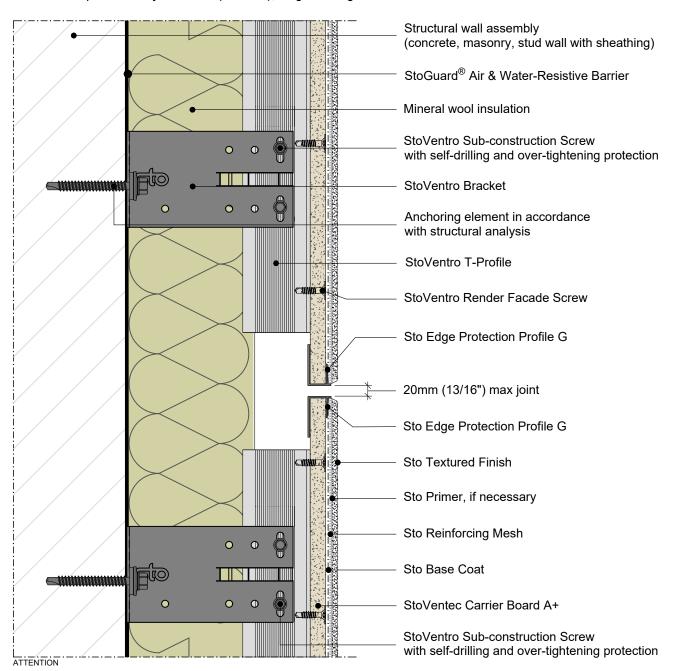


Horizontal Expansion Joint with Sto Edge Protection Profile G to Sto Edge Protection Profile G Section View

Date: November 2021

Detail No.: 90.R.451

Note: Maximum span without joints: 25m (~82 feet), length to height ratio not in excess of 2:1.



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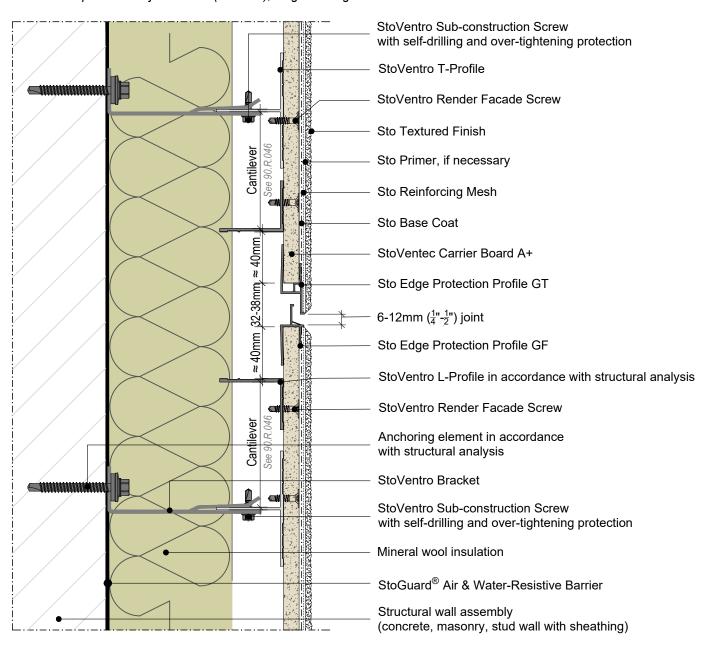


Vertical Expansion Joint with Sto Edge Protection Profile GT to Sto Edge Protection Profile GF

Date: November 2021

Detail No.: 90.R.460

Note: Maximum span without joints: 25m (~82 feet), length to height ratio not in excess of 2:1.



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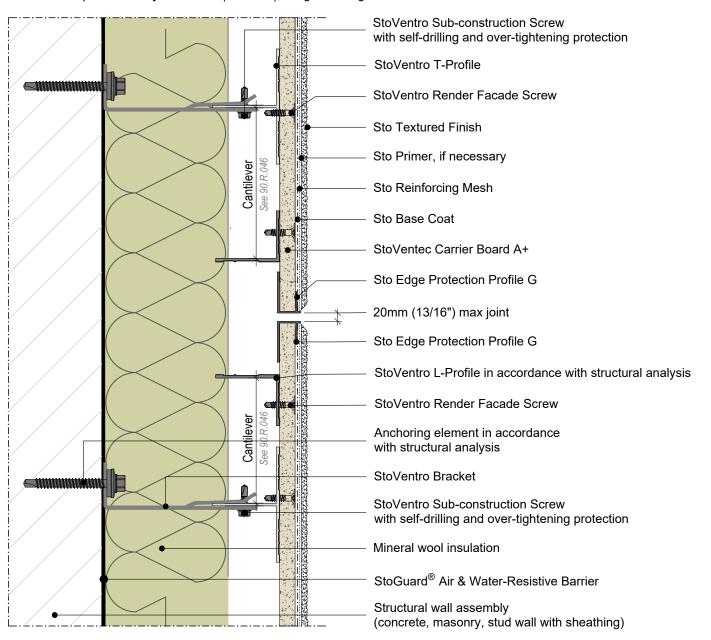


Vertical Expansion Joint with Sto Edge Protection Profile G to Sto Edge Protection Profile G Plan View

Date: November 2021

Detail No.: 90.R.461

Note: Maximum span without joints: 25m (~82 feet), length to height ratio not in excess of 2:1.



ATTENTION

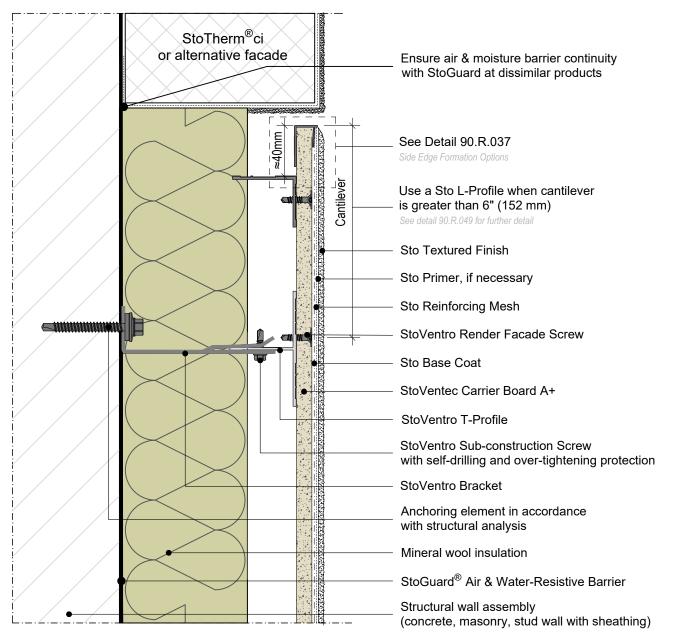
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Vertical Transition of StoVentec Render to Alternative Facade/wall substrate

Date: November 2021

Plan View Detail No.: 90.R.470



ATTENTION

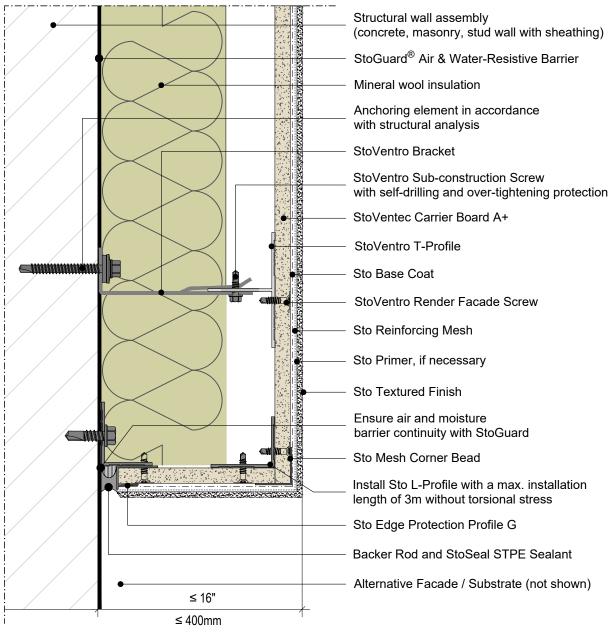
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Returning StoVentec Render to Alternative Facade/Substrate

Date: January 2024

Plan View Detail No.: 90.R.474



ATTENTION

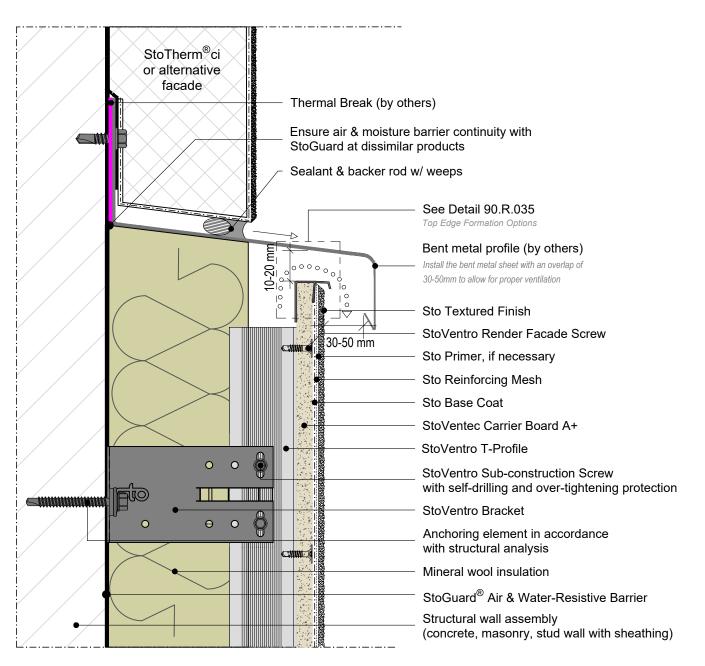
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Horizontal transition to alternative facade/wall substrate above

Date: November 2021

Section View Detail No.: 90.R.475



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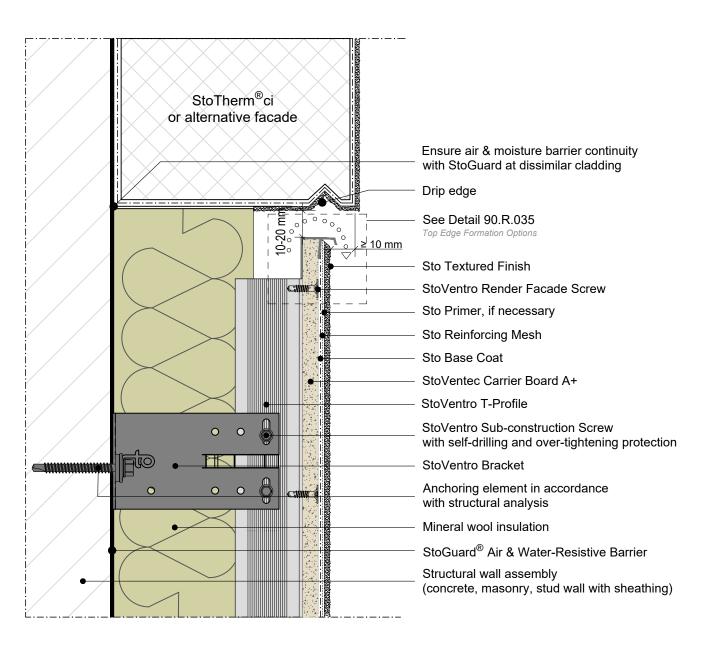


Horizontal Transition of StoVentec Render under alternative facade/wall substrate

Section View

Date: November 2021

Detail No.: 90.R.476



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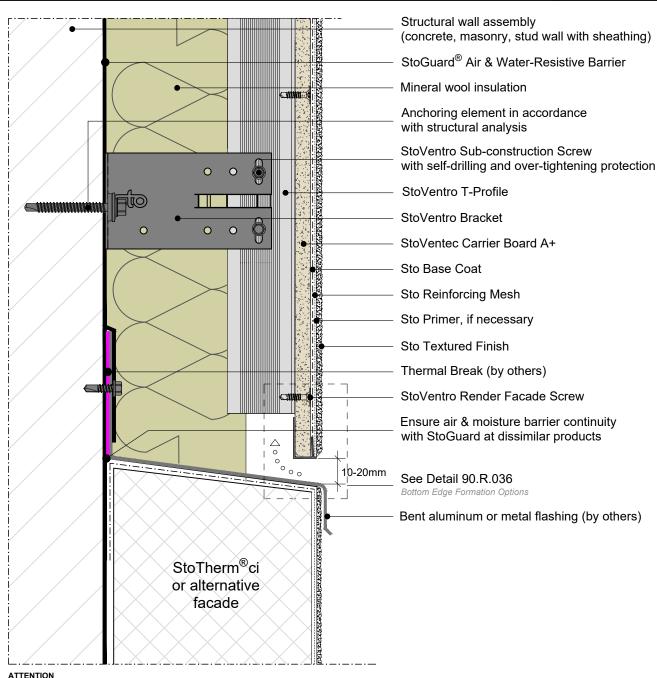


Horizontal Transition of StoVentec Render above alternative facade/wall substrate (Render facade flush)

Section View

Date: November 2021

Detail No.: 90.R.478



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Vertical Transition of StoVentec Render to Alternative Facade/ wall substrate (Render proud)

Plan View Detail No.: 90.R.486

Date: November 2021

Structural wall assembly (concrete, masonry, stud wall with sheathing) StoGuard® Air &Water-Resistive Barrier Mineral wool insulation Anchoring element in accordance with structural analysis StoVentro T-Profile StoVentro Render Facade Screw StoVentro Sub-construction Screw with self-drilling and over-tightening protection StoVentro Bracket StoVentec Carrier Board A+ Sto Base Coat Sto Reinforcing Mesh Sto Primer, if necessary Sto Textured Finish Sto Joint Sealing Tape M Install Sto L-Profile with a max. installation length of 3m without torsional stress Sto Mesh Corner Bead Sealant and backer rod Sto Edge Protection Profile G StoTherm[®]ci Ensure air & moisture barrier continuity or alternative facade with StoGuard at dissimilar products ATTENTION

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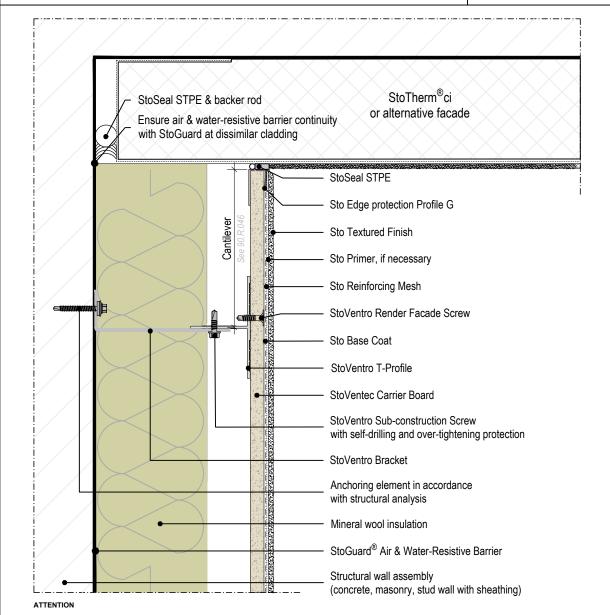


Date: October 2025

StoVentec[™] Render

Inside corner to alternative facade/wall substrate

Plan View Detail No.: 90.R.490



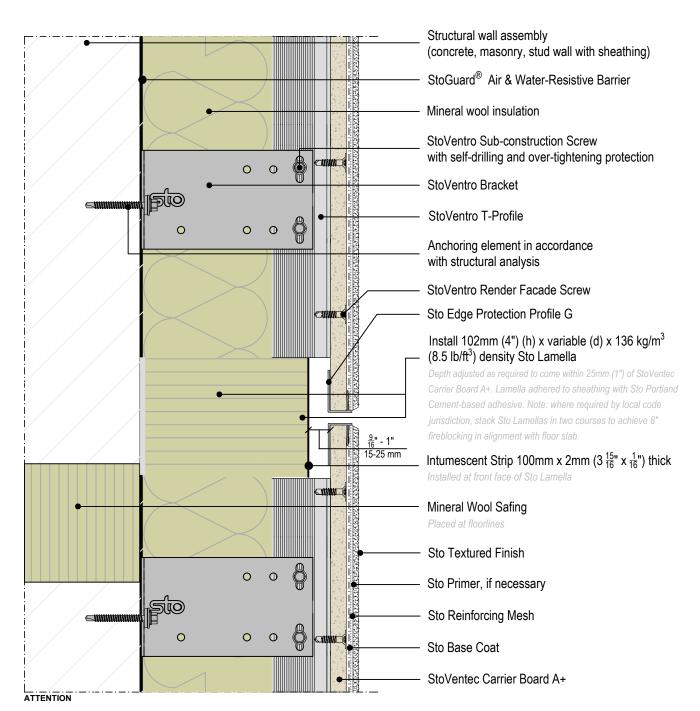
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Fire Protection at Floor Lines with Sto Lamella and Intumescent Tape Fire Break NFPA 285 Compliant, Intertek Design listing No. STO/CWP 30-02 **Section View**

Detail No.: 90.R.550

Date: August 2024



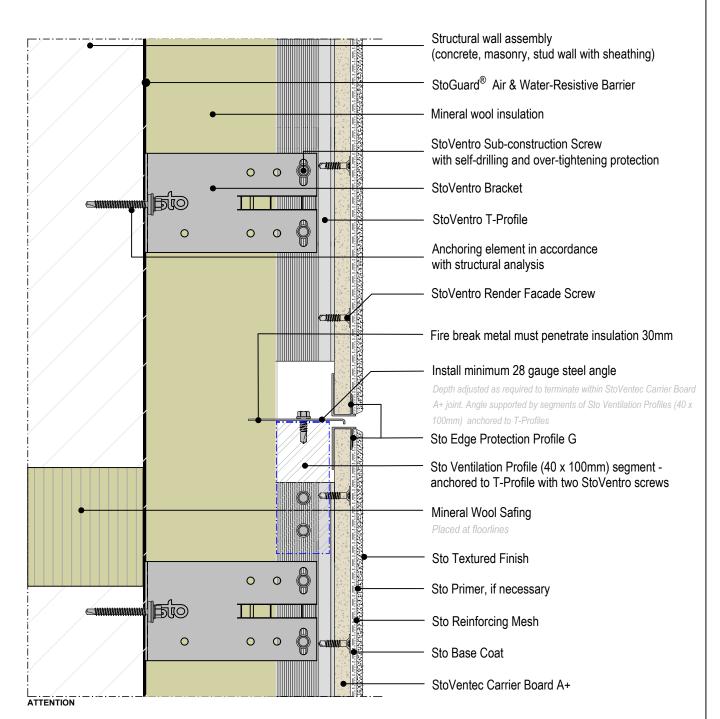
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Fire Protection at Floor Lines with Metal Fire Break - Ventilation Profiles NFPA 285 Compliant, Intertek Design listing No. STO/CWP 30-02 **Section View**

Date: November 2023

Detail No.: 90.R.555



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