



Building with conscience.

StoVentec® Fiber Cement

Design Guide and Detail Booklet

Series 90.Fc.xx and 90.Fc.xxC | December 2025

Facades



Interiors



Ventilated Rainscreen
cladding systems

StoVentec® Fiber Cement Rainscreen® Systems combine timeless, designer aesthetics with advanced energy efficiency, creating a superior building envelope solution. This fully engineered, multi-layered system integrates an air and water-resistive barrier, a robust sub-construction made from aluminum or steel brackets and profiles, mineral wool thermal insulation board, and durable high-density fiber cement. The fiber cement panels can be custom-fabricated into various shapes, offering unparalleled design versatility. Ideal for both modern and traditional architecture, StoVentec® ensures long-lasting performance, durability, and adaptability to any design vision.





Design Guide

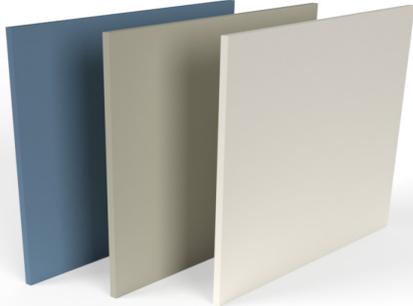


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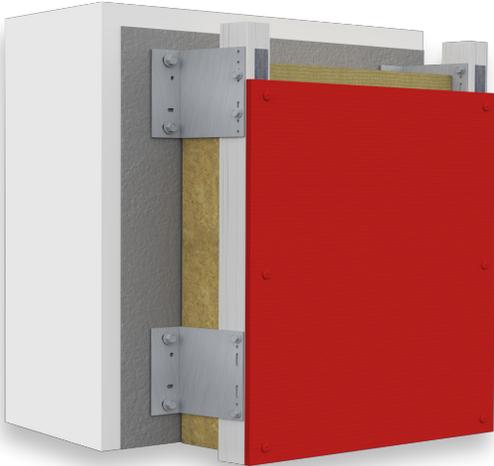
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ATTENTION

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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StoVentec Fiber Cement

A Complete Rainscreen System

StoVentec Fiber Cement is a drained and back-ventilated rainscreen wall system. The system consists of four principal components: an air and water-resistant barrier, an adjustable sub-construction, thermal insulation, and a pre-finished high-density fiber cement cladding. All Sto components are covered by a single-source warranty from Sto Corp.

StoVentec Fiber Cement is available in a variety of finish colors, with or without a pigmented body, and smooth or sanded textures. StoVentec high-density fiber cement is a time-tested durable, code-complaint, noncombustible cladding material suitable for almost any location with outstanding wind load resistance. An open-jointed system, the StoVentec Fiber Cement system offers low maintenance along with timeless and versatile aesthetics, and all-around performance.



Air and Water-Resistive Barrier

The first component of the StoVentec Fiber Cement 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-resistant 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 Fiber Cement. Adjustable StoVentro wall brackets work with StoVentec Fiber Cement to level out uneven walls or to create plane changes or unique designs for the façade. They also accommodate substrate waviness and imperfections. Together with StoVentro T and L-profiles, StoVentro brackets create ventilation cavities that allow air circulation and drainage, the hallmarks of rainscreen systems.



Thermal Insulation

StoVentec Fiber Cement 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 exterior wall performance requirements.

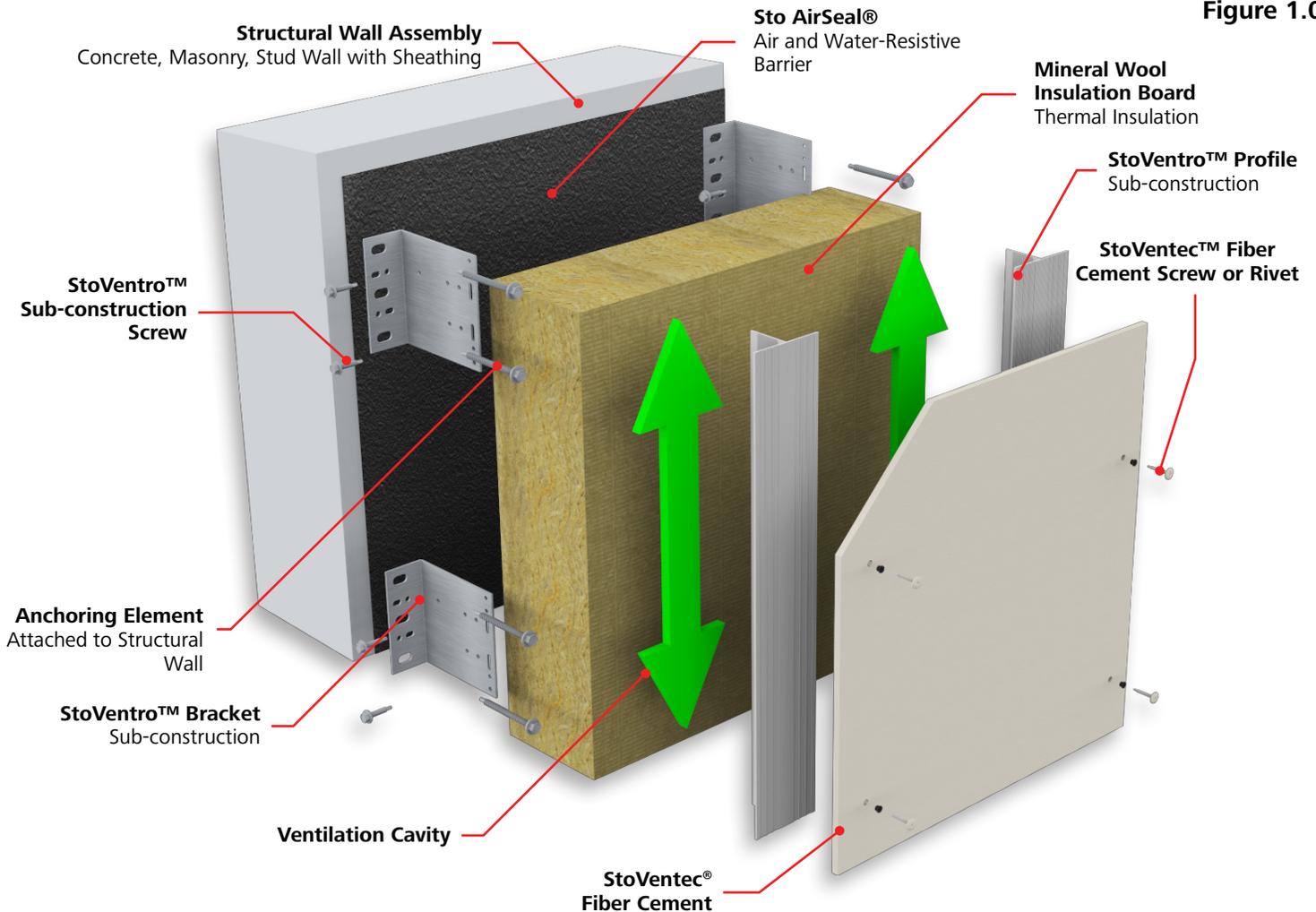


StoVentec Fiber Cement

ASTM C1186 Type A, Grade IV and E136 compliant, standard panels are 4 x 8 or 10 feet (1220 x 2440 or 3050mm) in 8 or 10mm (5/16 or 3/8 in.) thicknesses and may be installed horizontally or vertically. Custom fabrication enables unique shapes or patterned layouts. Panels may be installed with visible rivets or screws, or via concealed hangers anchored to the back surfaces (10mm panels).



Figure 1.0



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 (40-320mm sizes) or Zn-Al-Mg steel (25, 40-360mm sizes) brackets support vertical 'L' and 'T' profiles.

StoVentro T-Profile – Vertical aluminum profile, attached to the wall brackets, which supports StoVentec® Fiber Cement at vertical joints. L-Profiles (not shown) are typical in the field of each panel and/or at terminations. EPDM foam adhesive tape (not shown) is required on the vertical T/L Profiles to cushion the fiber cement when fastened with Rivets.

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

StoVentro Fiber Cement Rivet or Screw – Stainless steel fastener that provides attachment of StoVentec® Fiber Cement to StoVentro™ L and T-Profiles.

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

StoVentec Fiber Cement (SVFC) – Pre-finished, high-density 8 or 10mm fiber cement cladding panel.

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

StoVentro L-Profile – Aluminum support member used within the field of the panels as well as at terminations for structural attachment. (Not shown)

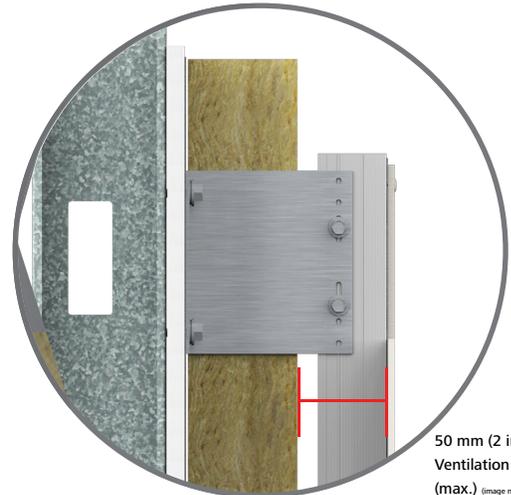
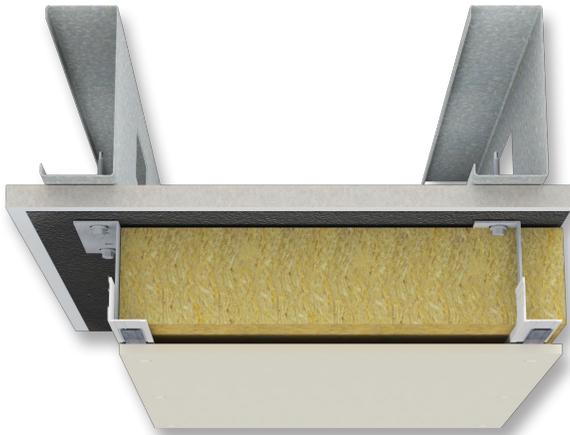
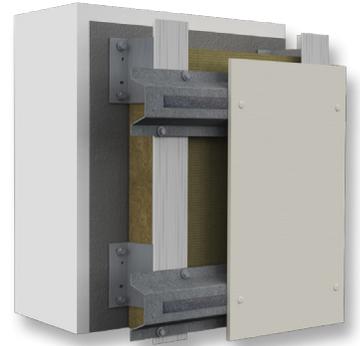
Anchoring Element – Engineered and code compliant fastener for attachment of StoVentro™ Bracket to structural wall. (Concrete and wood framing anchors not provided by Sto Corp.)

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



Fiber Cement Panel Layouts

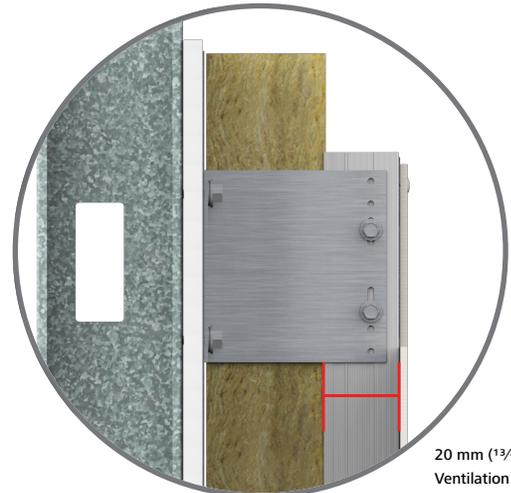
StoVentec Fiber Cement panels may be oriented horizontally or vertically and laid out in stacked or staggered patterns, or mixed aesthetically in a variety of customized dimensions made possible via fabrication. StoVentro brackets, depth options 25mm to 360mm (1 to 14-3/16 inches) and profiles (L's and T's) must be spaced so that vertical edges of panels always align with a rail. L-Profiles are typical within the field of a panel. T-Profiles (120mm) are required at vertical joints between panels unless horizontal hat channels are also needed on top of StoVentro profiles to accommodate complex design layouts.



50 mm (2 in.)
 Ventilation Cavity
 (max.) (image not to scale)

StoVentro Ventilation

The vertical support T-Profiles feature a 30mm wide fastening zone (L-Profiles 20 or 30mm) and may be fastened to the StoVentro brackets anywhere within this range. This allows for up to 30mm of total adjustability for the system. Refer to Table 1.0 on page 8 for recommended StoVentro bracket sizing (25mm or 40-360mm in increments of 20mm) in accordance with the thickness of mineral wool continuous exterior insulation. The ventilation plane between the cladding panels and face of the mineral wool ranges from 20 to 50mm (1³/₁₆ to 2 inches).



20 mm (1³/₁₆ in)
 Ventilation Cavity
 (min.) (image not to scale)



Fiber Cement Panel Concealed Fixing

StoVentec Fiber Cement panels in 10mm (3/8 in.) thickness may be utilized for concealed fixing. This requires the use of specialized anchors and additional sub-construction in the form of **StoVentro Agraffes** and **Carrier Profile Hangers**. Professional fabrication with CNC machinery is required to successfully implement the concealed fixing system. Preparation of the panels by hand is prohibitively difficult to accomplish in the field.

The back surface of the panels are pre-drilled with a 6mm diameter drill bit to a depth of 7mm. Each Carrier Profile Hanger requires two **TUF-S 6x9** threaded rivets. Refer to **Detail 90.Fc.010** for a prescriptive Hanger/Fastener spacing schedule rated to an ultimate wind pressure of 140 psf. StoVentro Agraffe Profiles are installed horizontally on the vertical StoVentro Profiles and spaced at a corresponding distance matching the Hangers secured to the panels.

One or two **Leveling/Adjustment Screws**, depending on panel dimensions, may be utilized to help with aligning panels. These are positioned on Hangers at the top left and/or right side of each panel.

A **Cotter Pin** or StoVentro Screw should be utilized on each panel to prevent lateral movement.



StoVentec Agraffes (horizontal) secured to vertical profiles



StoVentec Carrier Profile Hanger



TUF-S 6x9 threaded rivet by SFS



Leveling/Adjustment Screw



StoVentec Fiber Cement concealed fastening system buildup

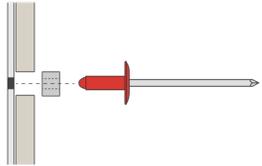


Fiber Cement Panel Visible Fixing

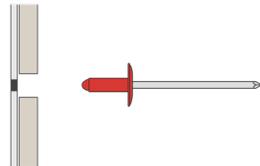
StoVentec Fiber Cement panels with visible fixing (face fasteners) - color-matched or steel-finished rivets or screws - require oversized fastener holes to be pre-drilled prior to installation. This allows the panels to float while the metal sub-construction they are anchored to undergoes thermal expansion and contraction in different (greater) amounts. As such, each panel receives two (2) fixed point fasteners near the middle and several sliding point fasteners everywhere else, with overall fastener count and spacing dependent on project design wind criteria, panel dimensions, and minimum edge distance requirements. The two fixed point fasteners must be located on separate T/L Profiles, and where panels joint on T-Profiles there must not be more than one fixed panel anchor.

- NOTES:** 1. Particularly with narrow vertical panels needing only two columns of fasteners, special sub-construction designs may be needed to satisfy fixed point fastening requirements. Please contact Sto's Technical Department.
 2. SVFC Screws are only compatible with 8mm thick panels. SVFC Rivets can be used with both 8 and 10mm thick panels.
 3. Application of EPDM foam tape is required on T/L Profiles for applications with rivets. The Centering Sleeves paired with the Screws perform the same function as the EPDM, providing separation, cushioning between the panel and metal.

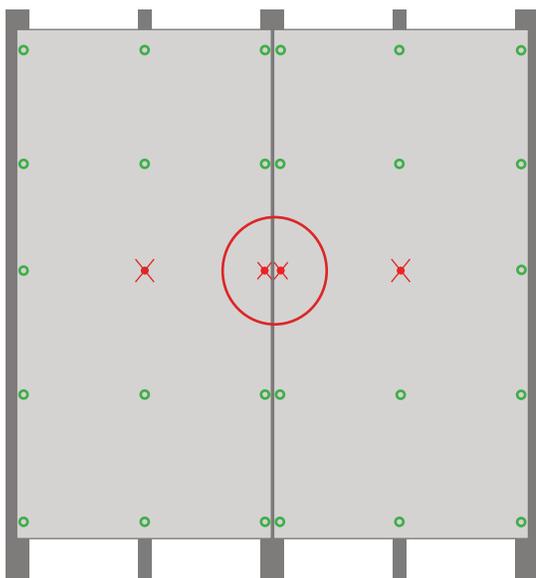
Fixed Point Rivet



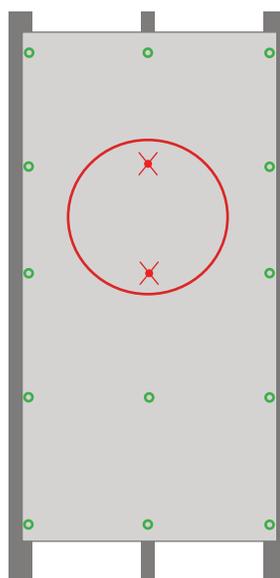
Sliding Point Rivet



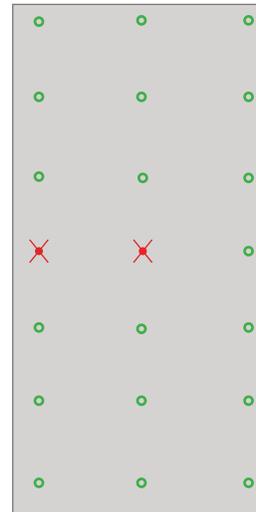
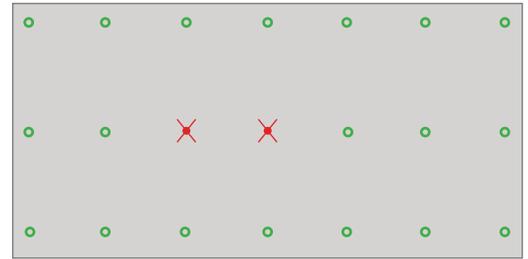
Fixed Point Sleeve for SVFC Rivets
 - fit 3/8 inch (9.5mm) pre-drilled holes in SVFC panels. Rivets have a 15mm head diameter.



Do NOT position fixed points for two panels on the same Profile. See Note 1 above.



Do NOT position the two fixed points for one panel on the same Profile. See Note 1 above.



- sliding point
- ✗ fixed point

Example fixed and sliding point fastener patterns. Fixed points must occur on different Profiles as close to the panel center as possible.



SVFC Screw (for 8mm thick panels only), 16mm head diameter, with Centering Fixed Point Sleeve (red), Centering Sliding Point Sleeve (black) and stabilizing drill bit - SVFC panels pre-drilled with 7/16 inch (11mm) holes.



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

	Insulation ⁴ Size Required				Sto Wall Bracket Size Required (mm)*	- Minimum - Distance from AWRB ³ to Front Face of Fiber Cement ⁵ (mm)	- Minimum - Distance from AWRB ³ to Front Face of Fiber Cement ⁵ (in)	- Maximum - Distance from AWRB ³ to Front Face of Fiber Cement ⁵ (mm)	- Maximum - Distance from AWRB ³ to Front Face of Fiber Cement ⁵ (in)
	Width (in)	Width (mm)	R-Value ¹	RSI-Value ²					
Standard	1"	25	4.3	0.74	40	60.7 ⁷	2- ³ / ₈	80.7	3- ³ / ₁₆
	1.5"	38.1	6.45	1.14	60	70.7	2- ³ / ₄	100.7	4
	2"	50	8.6	1.48	80	90.7	3- ⁹ / ₁₆	120.7	4- ³ / ₄
	2.5"	63.5	10.7	1.85	100	110.7	4- ³ / ₈	140.7	5- ¹ / ₂
	3"	76.2	12.9	2.22	100	110.7	4- ³ / ₈	140.7	5- ¹ / ₂
	3.5"	88.9	15	2.59	120	130.7	5- ¹ / ₈	160.7	6- ³ / ₈
	4"	101.6	17.2	2.96	120	130.7	5- ¹ / ₈	160.7	6- ³ / ₈
	4.5"	114.3	19.3	3.33	140	150.7	5- ¹⁵ / ₁₆	180.7	7- ¹ / ₈
	5"	127	21.5	3.70	160	170.7	6- ³ / ₄	200.7	7- ⁷ / ₈
	5.5"	139.7	23.6	4.07	160	170.7	6- ³ / ₄	200.7	7- ⁷ / ₈
	6"	152.4	25.8	4.44	180	190.7	7- ¹ / ₂	220.7	8- ¹¹ / ₁₆
	6.5"	165.1	27.9	4.81	200	210.7	8- ⁵ / ₁₆	240.7	9- ¹ / ₂
	7"	177.8	30.1	5.18	200	210.7	8- ⁵ / ₁₆	240.7	9- ¹ / ₂
8"	203.2	34.4	5.92	220	230.7	9- ¹ / ₁₆	260.7	10- ¹ / ₄	
Special Design Considerations Required⁶	8.5"	215.9	36.5	6.29	240	250.7	9- ⁷ / ₈	280.7	11- ¹ / ₁₆
	9"	228.6	38.7	6.66	260	270.7	10- ⁵ / ₈	300.7	11- ¹³ / ₁₆
	9.5"	241.3	40.8	7.03	260	270.7	10- ⁵ / ₈	300.7	11- ¹³ / ₁₆
	10"	254	43	7.40	280	290.7	11- ⁷ / ₁₆	320.7	12- ⁵ / ₈
	10.5"	266.7	45.1	7.77	300	310.7	12- ¹ / ₄	340.7	13- ⁷ / ₁₆
	11"	279.4	47.3	8.14	300	310.7	12- ¹ / ₄	340.7	13- ⁷ / ₁₆
	11.5"	292.1	49.4	8.51	320	330.7	13	360.7	14- ¹ / ₄
	12"	304.8	51.6	8.88	320	330.7	13	360.7	14- ¹ / ₄
	12.5"	317.5	53.7	9.25	340	350.7	13- ¹³ / ₁₆	380.7	15
	13"	330.2	55.9	9.62	360	370.7	14- ⁹ / ₁₆	400.7	15- ³ / ₄
	13.5"	342.9	58	9.99	360	370.7	14- ⁹ / ₁₆	400.7	15- ³ / ₄

¹ R = 4.3 per 1 inch

² RSI = 0.74 per 25mm

³ AWRB = Air and Water-Resistive Barrier Layer

⁴ Rockwool Cavityrock® or equivalent

⁵ 8mm thick fiber-cement

⁶ Multiple layers of insulation required

⁷ T-Profile is taller (52.7mm) than the

40mm bracket

*25, 40-360mm

depths available



Primara Line



Albion



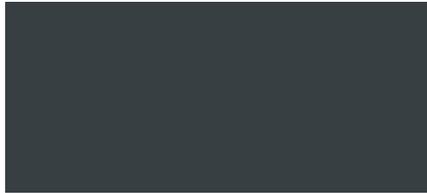
Ballston



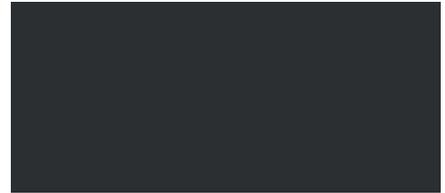
Kodiak



Plumbago



Orca



Obsidian

Primara Line (PL) panels are grey-bodied with an opaque surface finish. The finish texture is smooth with a light sanded grain.

Mezzo Line



Giassa



Tirakut



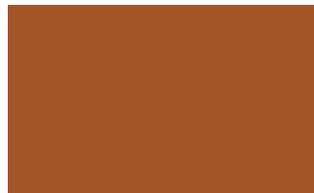
Vendaval

Mezzo Line (ML) panels have a pigmented body with a semi-transparent, hydrophobic surface finish, offering a natural and non-uniform fiber-cement appearance. The finish texture is smooth with a light sanded grain.

Strata Line



Turmeric



Ginger



Imperial



Auberginal



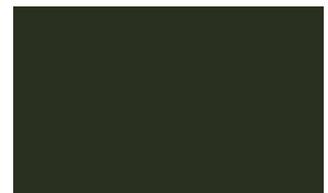
Bermuda



Superior



Nightshade



Brunswick

Strata Line (SL) panels have a pigmented body with an opaque surface finish. The finish texture is extra smooth with a subtle linear effect in the paint.



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.
Warranty	Limited Warranty	10 Year for full StoVentec system (AWRB, Sub-construction, and cladding)
System Component	Component 1 - Air and Water-Resistive Barrier (AWRB)	Sto AirSeal® fluid applied, vapor permeable AWRB (alternatives: any of the StoGuard® family)
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 - Fiber Cement	StoVentec Fiber Cement
System Weight	Weight range of StoVentec Fiber Cement, StoVentro Sub-construction and Thermal Insulation	≈21.36 to ≈34.44 kg/m ² (≈4.36 to ≈7.04 lb./ft. ²) variable based on cavity depth, insulation thickness (up to 7")
System Weight	Weight range of StoVentec Fiber Cement	8mm thickness 15.7 kg/m ² (3.2 lb./ft. ²) 10mm thickness 19.6 kg/m ² (4 lb./ft. ²)
System Weight	Weight of StoVentro Sub-construction	≈2.00 kg/m ² (0.41 lb./ft. ²) Variable based on cavity depth
System Weight	Weight of Thermal Insulation	0.75 - 2.63 lb./ft. ² (3.66 - 12.84 kg/m ²) at 2"-7" (51 - 178mm) thickness"
Substrates	Allowable wall substrates	Steel or wood frame with glass mat gypsum sheathing in compliance with ASTM C1177 or 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 L and T-profiles mounted on StoVentro brackets	406mm (16") or 610mm (24") max. on center
Substrates	Vertical spacing of StoVentro brackets	914mm (36") for prescriptive options. With engineering design, varies based on Wind Loads. See StoVentec load tables.
Ventilation	Ventilation is required at top and bottom of wall	Minimum 10mm (3/8") gap
Ventilation Cavity	Thickness of unobstructed air cavity between face of wall mounted insulation and rear surface of StoVentec Fiber Cement	20mm - 50mm (13/16" - 2")
Deflection Limit	Recommended allowable deflection limit	L/240
Structural	Structural Wall Assembly level tolerance	6mm in 3.0m (1/4" in 10 ft.)
System Layout	Gap between StoVentec Fiber Cement outside edge and all other physical building elements (if ventilation profile IS NOT used)	8mm - 10mm (5/16" - 3/8")
System Layout	Gap between StoVentec Fiber Cement outside edge and all other physical building elements (if ventilation profile IS used)	25mm (1")
System Layout	Clearance of fiber cement panel above ground level	150mm (5-7/8") (minimum)
System Layout	StoVentec Fiber Cement face setback distance 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.
System Layout	StoVentec Fiber Cement installation	Panel ends shall be centered horizontally on the mounting surface of the 120mm wide vertically oriented T-profiles.
System Layout	StoVentec Fiber Cement orientation	Install boards horizontally or vertically in running bond or stacked patterns.
System Layout	Quantity of bracket fixed point (FP) connections to T/L Profile	1 maximum



Table 1.1 - System Information (cont'd)

Feature	Description	Value
System Layout	Quantity of bracket sliding point (GP) connections to T/L profile	At least one sliding point is typically required. Actual quantity is defined by prescriptive/pre-engineered design or project-specific engineering calculations.
Joint Requirements	Between fiber cement panels	8-10mm (5/16"-3/8") gap around each panel
Joint Requirements	Joints are required in the system at these conditions	<ul style="list-style-type: none"> • Joints between StoVentro L and T Profiles • 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
Joint Requirements	At junctions or abutments to dissimilar building components	Windows, doors, alternative façade materials, pipe, scupper and similar through wall penetrations.
Fire Break	Horizontal fire break with Sto Lamella	Refer to StoVentec Details for material and configuration.
Flashing	Recommended	Refer to StoVentec Details for material and configuration.
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	AirSeal: 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 Fiber Cement 3-part spec. VaporSeal: 40 DFT (90 wet mils) where specified
AWRB	Color	Charcoal: Sto AirSeal® Green: VaporSeal® Yellow: Gold Coat® Graphite: StoShield™ SA VP Black: StoShield™ SA NP Gold: GoldSeal™ STPE



Table 1.2 - Component Information

Feature	Description	Value
Sub-Construction	Bracket material	6063 T66 aluminum or HSLAS-F Gr. 80 + Zn-Al-Mg coated steel
Sub-Construction	Steel Bracket: Small StoVentro Bracket (GP) W x H x T 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 T Used for dead/fixed point loading and wind loading	50mm x 130mm x 2.0mm x variable depth (2" x 5-1/8" x 1/16")
Sub-Construction	Aluminum Bracket: Small StoVentro Bracket (GP) W x H x T 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 T360mm 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 (1"), 40mm - 360mm (1- 9/16" - 14-1/8") (aluminum max. 320mm)
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 and metal type
Sub-Construction	Material (StoVentro L & T Profile, hat channels)	6005A-T5 or 6063-T66 aluminum
Sub-Construction	Size: StoVentro T-profile (3m length)	120 or 90mm x 53mm x 2.7mm (4-3/4" or 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- 9/16" 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, Self drilling screw, 5.5mm Dia. x 22mm L, with over torque feature, 304 SS. (3/16" X 7/8")
Sub-Construction	Fastener: Bracket to substrate attachment fastener (anchoring fastener) per code report prescription or calculations performed by qualified licensed engineer	Code report prescriptive design or project-specific based on wind load, and substrate materials, defined by structural calculations, material: bi-metal 304 stainless steel with hardened tip typical for steel stud applications
Panel Fixing	Self-adhered EPDM foam tape - cushioned spacer between fiber cement panels and metal profiles - required (adhered to metal profiles prior to panel installation) for visible fixing with rivets	1" (25mm) width x 1/8" (3mm) thickness
Panel Fixing	Visible Fixing Option (Sto Recommended): SVFC Rivet StoVentec Fiber Cement to StoVentro T/L Profile attachment	15mm Dome Head, Rivet, 5.0mm Dia. x 18 mm L (3/16" x 11/16") 316 SS, for attachment to aluminum or steel substrates
Panel Fixing	Fixed point sleeves for rivet fasteners	FP-A-9.5x7.4 for 5mm diameter rivets and 8mm thick f.c. panels
Panel Fixing	Visible Fixing Alternative for 8mm panels only: SVFC Screw StoVentec Fiber Cement to StoVentro T/L Profile attachment	16mm Pan Head, Self-drilling façade screw, 5.5mm Dia. x 32mm long (3/16" X 1-1/4") 304 SS for attachment to aluminum or steel substrate



Feature	Description	Value
Panel Fixing	Centering sleeves/grommets with screw fasteners	Always paired with self-drilling facade screws Fixed point centering sleeve/grommet - 11/8 F Sliding/gliding point centering sleeve/grommet - 11/8 S Centering Sleeves protrude beyond the back surface of the panels serving/replacing the function of the EPDM foam tape needed with Rivets only.
Panel Fixing	Concealed Fixing of StoVentec Fiber Cement (10mm) panels (Fabrication services required.)	SFS TUF-S-6x9 SS threaded rivet/blind fastener
Panel Fixing	Concealed Hangers: StoVentro Carrier Profile Hangers	4" (102mm) long panel hangers - secured to 10mm StoVentec Fiber Cement rear surfaces with two SFS TUF-S-6x9 blind fasteners each - Fabrication services required
Sub-Construction	Concealed Hangers: StoVentro Agraffe Profiles	Agraffe Profiles - 3m (118") mounted to vertical StoVentro Profiles to receive Carrier Profile Hangers pre-fixed to fiber cement (10mm thickness only)
Sub-Construction	Vertical gap between adjacent T/L Profiles mounted in an end-to-end configuration	10 - 15mm (3/8" - 5/8")
Sub-Construction	Concealed installation: Horizontal gap between adjacent Agraffe profiles mounted in an end-to-end configuration	10 - 15mm (3/8" - 5/8")
Sub-Construction	Concealed installation: Attachment locations of horizontal StoVentro Agraffe profile to vertical T/L Profile	5.5mm x 20mm (3/16" x 13/16") oblong slots are required to be punched through StoVentro Agraffe profiles for mounting to T/L profiles to compensate for linear thermal expansion of Agraffe rails.
Sub-Construction	Minimum fastening distance from top or bottom edge of T/L Profile	≥ 10mm (3/8")
Panel Retention	Concealed installation: Elimination of lateral drift of fiber cement installed with concealed hangers on Agraffe profiles	Add cotter pin (better for ease of panel maintenance/removal) or self-drilling fastener at one of the top row hanger/agaffe engagements of each panel
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/ft ² (3.66 - 12.84 kg/m ²)
Insulation	Thickness Minimum	50mm (2") for NFPA 285 compliance with combustible AWRBs
Insulation	Density	72.1 kg/m ³ (4.5 lb/ft ³) or 69 kg/m ³ (4.3 lb/ft ³) - monolithic density for 1, 1.5, 2" thicknesses 100 kg/m ³ (6.2 lb/ft ³) outer layer, 61 kg/m ³ (3.8 lb/ft ³) inner layer - dual density for 2.5" or thicker
Insulation	Thermal Conductivity	0.033 W/cm · K (0.23 (BTU in)/(hr · ft ² · °F), @ 75°F)
Insulation	Thermal Resistance	R-Value = 4.3 per inch, RSI = 0.74 per 25mm of thickness
Insulation	Attachment to sub-construction or structural backup	Insulation Dowels by others. Refer to insulation manufacturer installation literature.
Fiber Cement Panel	Size: Height x Width	1220mm (48") x 2440mm (96") or 3050mm (120")
Fiber Cement Panel	Thickness	8 or 10 mm (5/16" or 3/8")



Table 1.2 - Component Information (cont'd)

Feature	Description	Value
Fiber Cement Panel	Density	Minimum 1600 kg/m ³ (~100 lb/ft ³)
Fiber Cement Panel	Flexural Strength classification	ASTM C1186 Grade IV compliant
Fiber Cement Panel	StoVentec Fiber Cement cantilever: vertical overhang of panel edge past vertically oriented StoVentro T/L Profile	38 mm nominal (1-1/2")
Fiber Cement Panel	StoVentec Fiber Cement cantilever: horizontal overhang of unsupported panel edge past StoVentro vertical profile (reinforcing StoVentro L-profile behind panel end NOT required)	< 152mm (< 6") Reference detail 90.Fc.049
Fiber Cement Panel	StoVentec Fiber Cement cantilever: Use of reinforcing StoVentro L-profile behind panel end REQUIRED for horizontal overhang of panel edge past StoVentro vertical profile	152mm (6") < length ≤ 406mm (≈ 16") Reference detail 90.Fc.049
Fiber Cement Panel	StoVentec Fiber Cement cantilever: Use of reinforcing StoVentro L-Profile required in outside corner condition of two adjacent panels	L-Profile required
Fiber Cement Panel	Pre-drilling diameters for panels prior to visible fastening: Pre-drilled fastener holes in panels enable gliding/sliding point and fixed point fastening of panels to allow for thermal movement of the sub-construction. Panels get two fixed point fasteners (on different support profiles near panel center) while the rest are gliding/sliding. Refer to details 001-009, 012, 014 for fastener layout examples.	9.5mm (3/8") for rivets 11.1mm (7/16") for screw fasteners paired with centering sleeves
Fiber Cement Panel	Pre-drilling diameters for panels prior to concealed fastening	6mm for concealed SFS TUF-S 6x9 fasteners with 7mm drill depth
Fiber Cement Panel	StoVentec Fiber Cement panel attachment at vertical edges	32 mm (1-1/4") fastener clearance from vertical edges (parallel to vertical T/L Profiles) For reference, see Details 90.Fc.001-006.
Fiber Cement Panel	StoVentec Fiber Cement panel attachment at horizontal edges	76mm (3") fastener clearance from horizontal edges (perpendicular to vertical T/L Profiles) For reference, see Details 90.Fc.001-006.
Fiber Cement Panel	Panel joints must occur at/near joints between StoVentro profiles. Do not fasten a panel on both sides of profile joints.	For reference, see Detail 90.Fc.035.
Fiber Cement Panel	StoVentec Fiber Cement visible fixing attachment in field of panel to vertically oriented StoVentro Profiles (16" o.c.)	Pre-engineered vertical fastener spacings for a 4x8 panel oriented horizontally: 21" (534mm), 14" (356mm), 10-1/2" (268mm). For reference, see Details 90.Fc.001-003.
Fiber Cement Panel	StoVentec Fiber Cement visible fixing attachment in field of panel to vertically oriented StoVentro Profiles (16" o.c.)	Pre-engineered vertical fastener spacings for a 4x8 panel oriented vertically: 22-1/2" (572mm), 15" (381mm), 10" (254mm). For reference, see Details 90.Fc.004-006.
Fiber Cement Panel	StoVentec Fiber Cement visible fixing attachment in field of panel to vertically oriented StoVentro Profiles (24" o.c.)	Pre-engineered vertical fastener spacings for a 4x8 panel: 21" (534mm), 10-1/2" (268mm). For reference, see Detail 90.Fc.012-014.
Fiber Cement Panel	StoVentec Fiber Cement visible fixing attachment in field of panel to horizontally oriented StoVentro Profiles (22-1/2" o.c.)	Pre-engineered horizontal fastener spacings for a 4x8 panel oriented vertically: 21" (533mm), 10-1/2" (268mm). For reference, see Details 90.Fc.007 and 009.
Fiber Cement Panel	StoVentec Fiber Cement hidden fixing attachment in field of panel to horizontally oriented StoVentro Agraffes (22-1/2" o.c.)	Pre-engineered fastener/hanger spacing for a 4x8 panel oriented vertically: 22-1/2" (572mm). For reference, see Details 90.Fc.010.



Table 1.2 - Testing and Listings

Feature	Description	Value
Product Evaluation	ASTM C1186 Type A, Grade IV, U.S. Building Codes	Intertek Listing and certifications - CCRR 0600
Listing	Florida Product Approval	47528.1
Listing	NFPA 285 Fire Propagation	Engineering Judgment by Jensen Hughes Fire Protection Consultant: noncombustible or NFPA 285 complying exterior veneer will not contribute to vertical or lateral fire propagation with assemblies containing Sto AWRBs and minimum 2 inch thick mineral wool insulation.
Test	Florida TAS 202, 203 for Hurricane Cycling	HVHZ maximum design pressure ratings +/- 105 lb/ft ² (5.03 kN/m ²), +/- 115 lb/ft ² (5.51 kN/m ²)
Test	ASTM E330 - Max. Wind Load Resistance (Ultimate wind load capacity)	ASTM E330, 196 lb/ft ² (-9.38 kN/m ²)
Test	ASTM E84 Surface Burning Characteristics	Flame Spread Index: 0, Smoke Developed Index: 0
Test	ASTM E136/2652 Noncombustibility	Pass
Test	ASTM E331 Water Penetration by Uniform Static Pressure (SVFC assembly with StoVentro and Sto AirSeal AWRB)	2 hours @ 300 Pa: pass, 15 minutes @720 Pa: pass
Test	AAMA 509 - Voluntary Test and Classification Method for Drained and Back Ventilated Rainscreen Wall Cladding Systems	Water: W2 Ventilation: V3



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Fire Protection at Floorlines

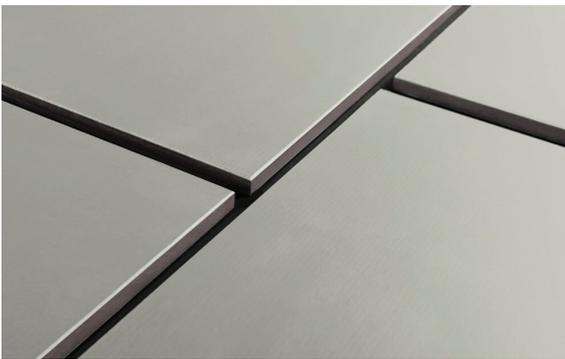
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StoVentec Fiber Cement

Visible Fixing Detail Booklet

Series 90.Fc.xx | September 2025



StoVentec Fiber Cement in 8mm thickness



StoVentec Fiber Cement Rivet



Fixed Point Sleeve - Rivets



EPDM foam tape



StoVentec Fiber Cement Screw



Fixed Point Centering Sleeve - Screws



Sliding Point Centering Sleeve - Screws

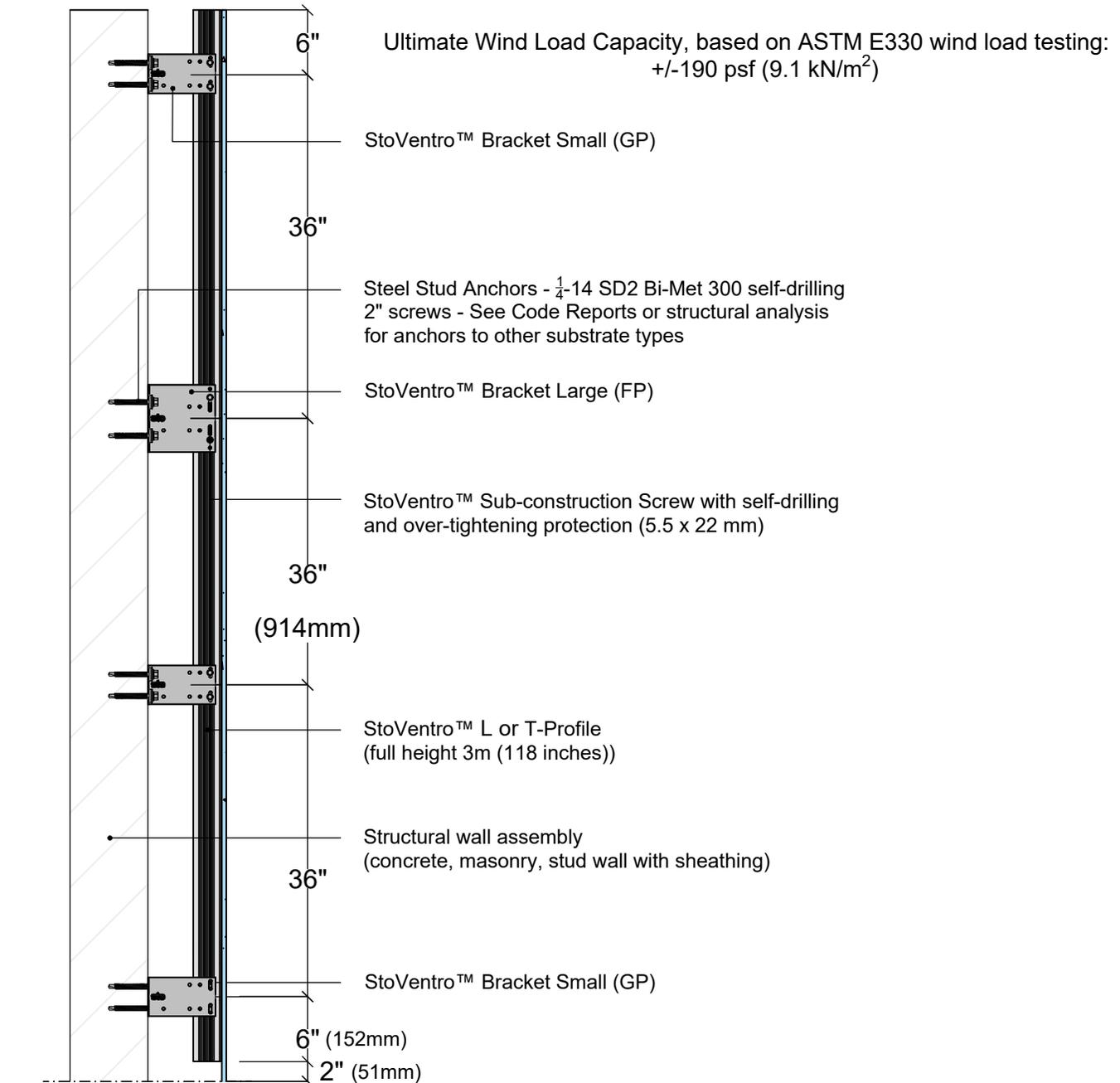
StoVentec[®] Fiber Cement

StoVentro[™] Bracket Installation, on 16" o.c. min. 18 Gauge Steel Framing,
spaced at 36" o.c. (914mm) max.

Section View - NTS

Date: August 2024

Detail No.: 90.Fc.000



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StoVentec® Fiber Cement

Horizontal Panel Example Layout

StoVentec F.C. (4 x 8 feet) Attachment (10-1/2 inch max. fastener spacing) to StoVentro™ L and T-Profiles, spaced at 16" o.c.(406mm), Field and Edge fastening of StoVentec F.C.

Elevation View

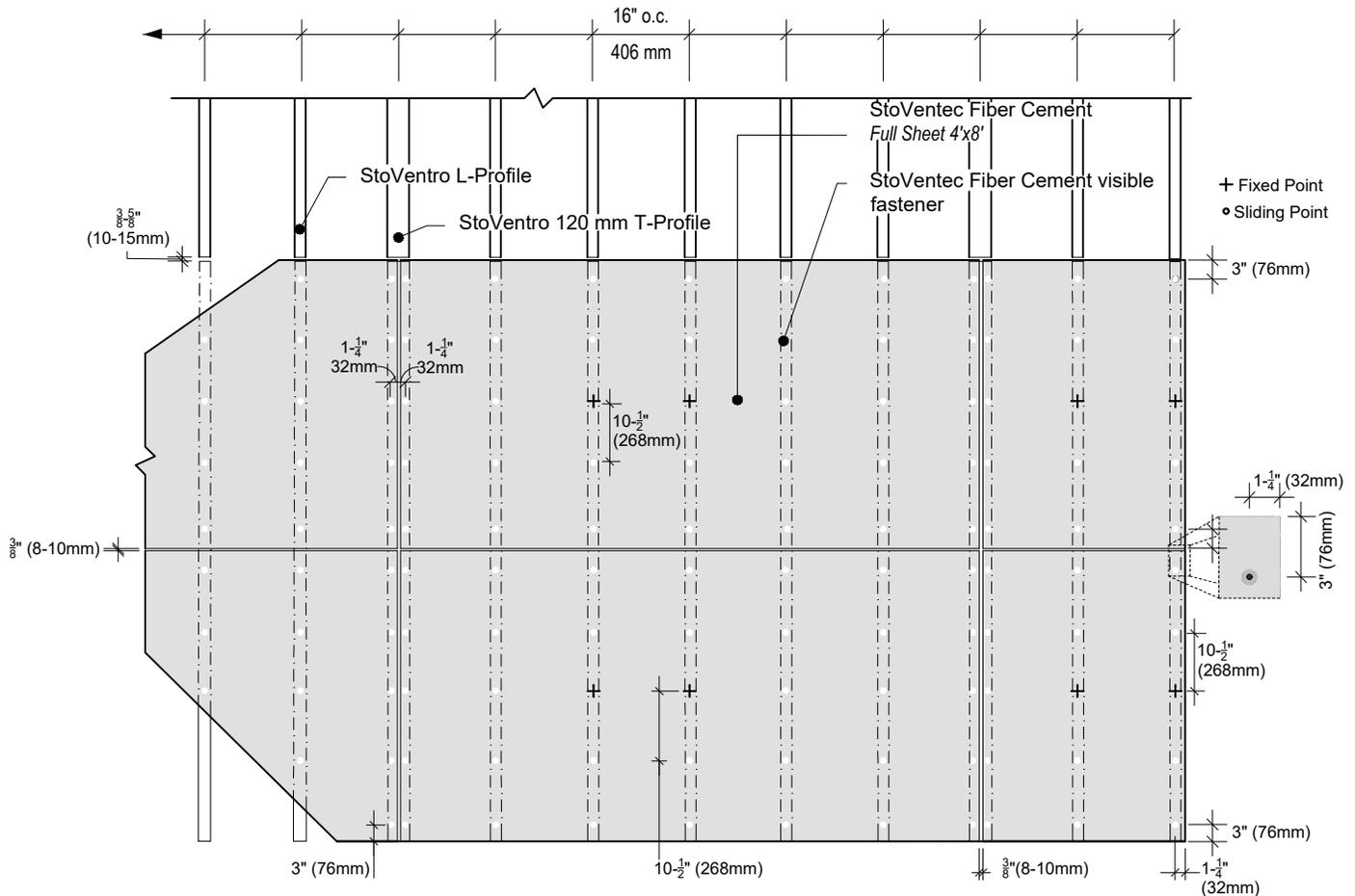
Date: August 2024

Detail No.: 90.Fc.001

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing:
-190 psf (9.1 kN/m²)

Layout Notes:

1. For Staggered/running-bond layouts, exchange L-Profiles for T-Profiles (120mm) as necessary to ensure all vertical panel joints meet on T-Profiles.
2. Horizontal joints between vertical Ventro profiles - leave 10-15mm gap between metal ends, and do NOT span the gap with fiber cement (horizontal joints for panels must also occur at/near rail joints - see Detail 90.Fc.35).
3. Joints between panels are spaced 8-10mm (~ $\frac{3}{8}$ ").
4. Panel Fixed Point fasteners must occur on separate rails near the panel centers. Refer to the *StoVentec Fiber Cement Design Guide* or full *Install Guide* for more information on fixed points and fastening sequences.



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StoVentec® Fiber Cement

Horizontal Panel Example Layout

StoVentec F.C. (4 x 8 feet) Attachment (14 inch max. fastener spacing) to StoVentro™ L and T-Profiles, spaced at 16" o.c.(406mm), Field and Edge fastening of StoVentec F.C.

Elevation View

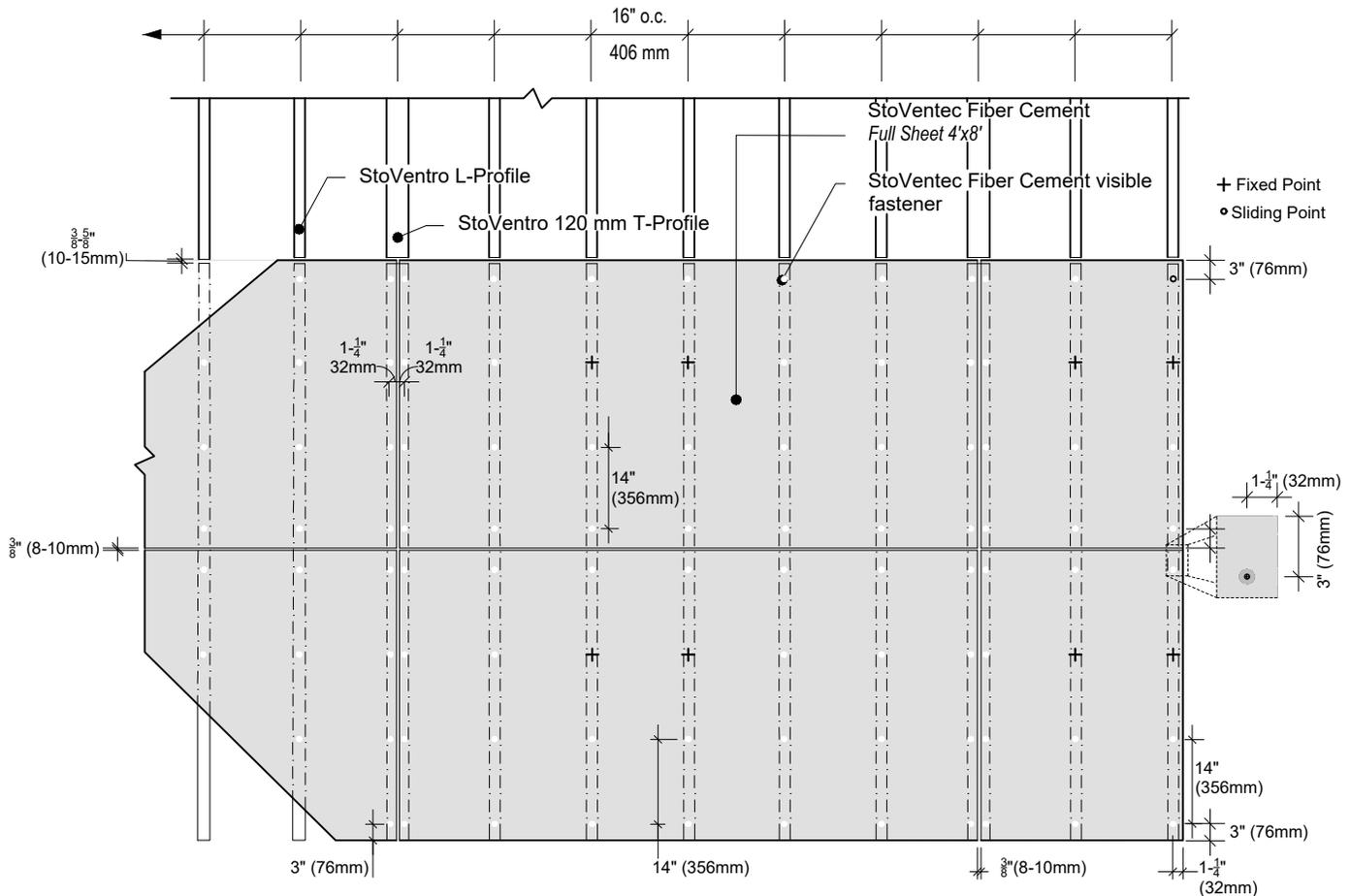
Date: August 2024

Detail No.: 90.Fc.002

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing:
 -161 psf (7.71 kN/m²)

Layout Notes:

1. For Staggered/running-bond layouts, exchange L-Profiles for T-Profiles (120mm) as necessary to ensure all vertical panel joints meet on T-Profiles.
2. Horizontal joints between vertical profiles - leave 10-15mm gap between metal ends, and do NOT span the gap with fiber cement (horizontal joints for panels must also occur at/near rail joints - see Detail 90.Fc.35).
3. Joints between panels are spaced 8-10mm (~ $\frac{3}{8}$ ").
4. Panel Fixed Point fasteners must occur on separate rails near the panel centers. Refer to the *StoVentec Fiber Cement Design Guide* or full *Install Guide* for more information on fixed points and fastening sequences.



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StoVentec® Fiber Cement

Horizontal Panel Example Layout

StoVentec F.C. (4 x 8 feet) Attachment (21 inch max. fastener spacing) to StoVentro™ L and T-Profiles, spaced at 16" o.c.(406mm), Field and Edge fastening of StoVentec F.C.

Elevation View

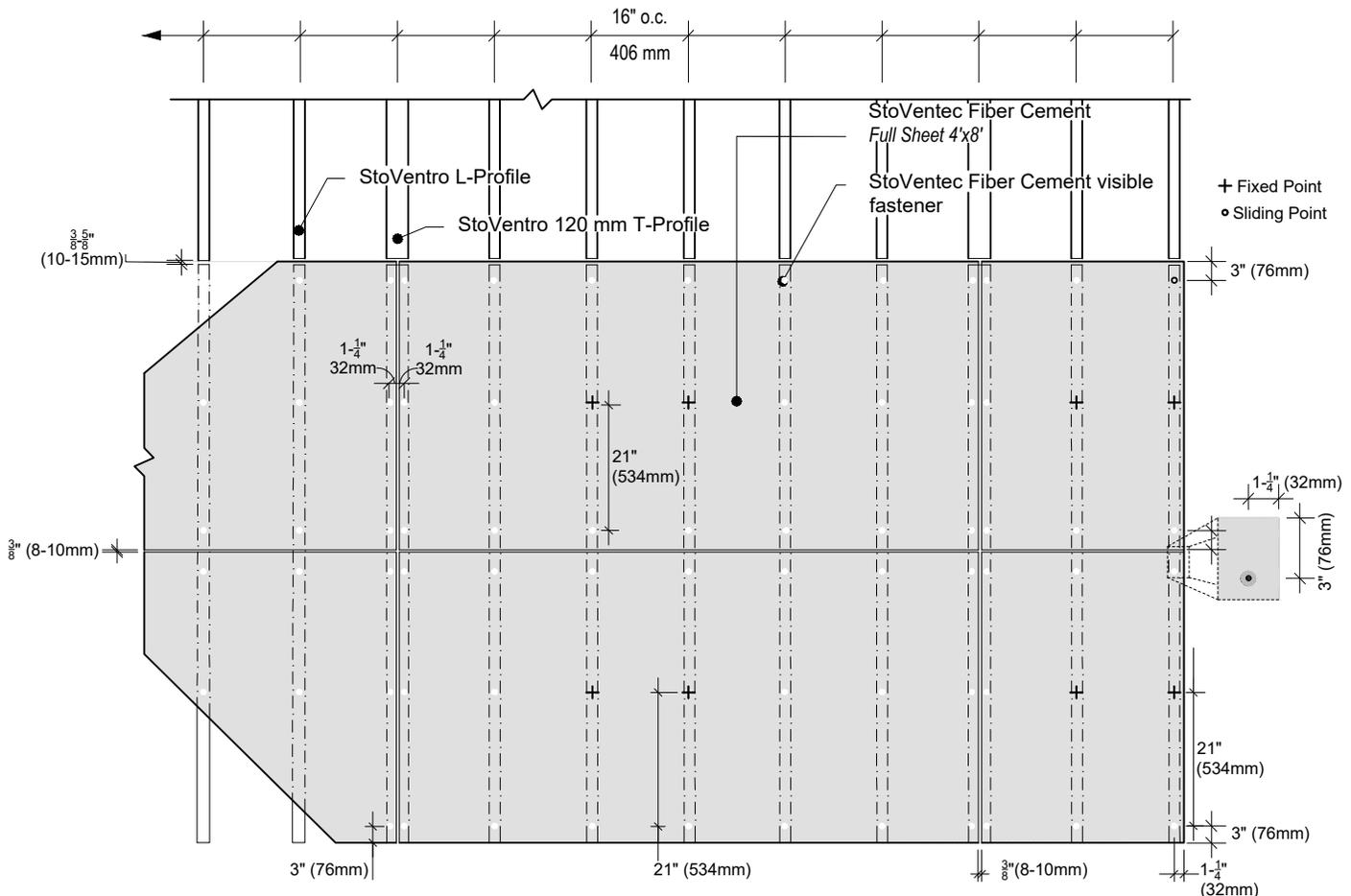
Date: August 2024

Detail No.: 90.Fc.003

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing:
 -133 psf (6.38 kN/m²)

Layout Notes:

1. For Staggered/running-bond layouts, exchange L-Profiles for T-Profiles (120mm) as necessary to ensure all vertical panel joints meet on T-Profiles.
2. Horizontal joints between vertical profiles - leave 10-15mm gap between metal ends, and do NOT span the gap with fiber cement (horizontal joints for panels must also occur at/near rail joints - see Detail 90.Fc.35).
3. Joints between panels are spaced 8-10mm (~ $\frac{3}{8}$ ").
4. Panel Fixed Point fasteners must occur on separate rails near the panel centers. Refer to the *StoVentec Fiber Cement Design Guide* or full *Install Guide* for more information on fixed points and fastening sequences.



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StoVentec® Fiber Cement

Vertical Panel Example Layout

StoVentec F.C. (4 x 8 feet) Attachment (10 inch max. fastener spacing) to StoVentro™ L and T-Profiles, spaced at 16" o.c.(406mm), Field and Edge fastening of StoVentec F.C.

Elevation View

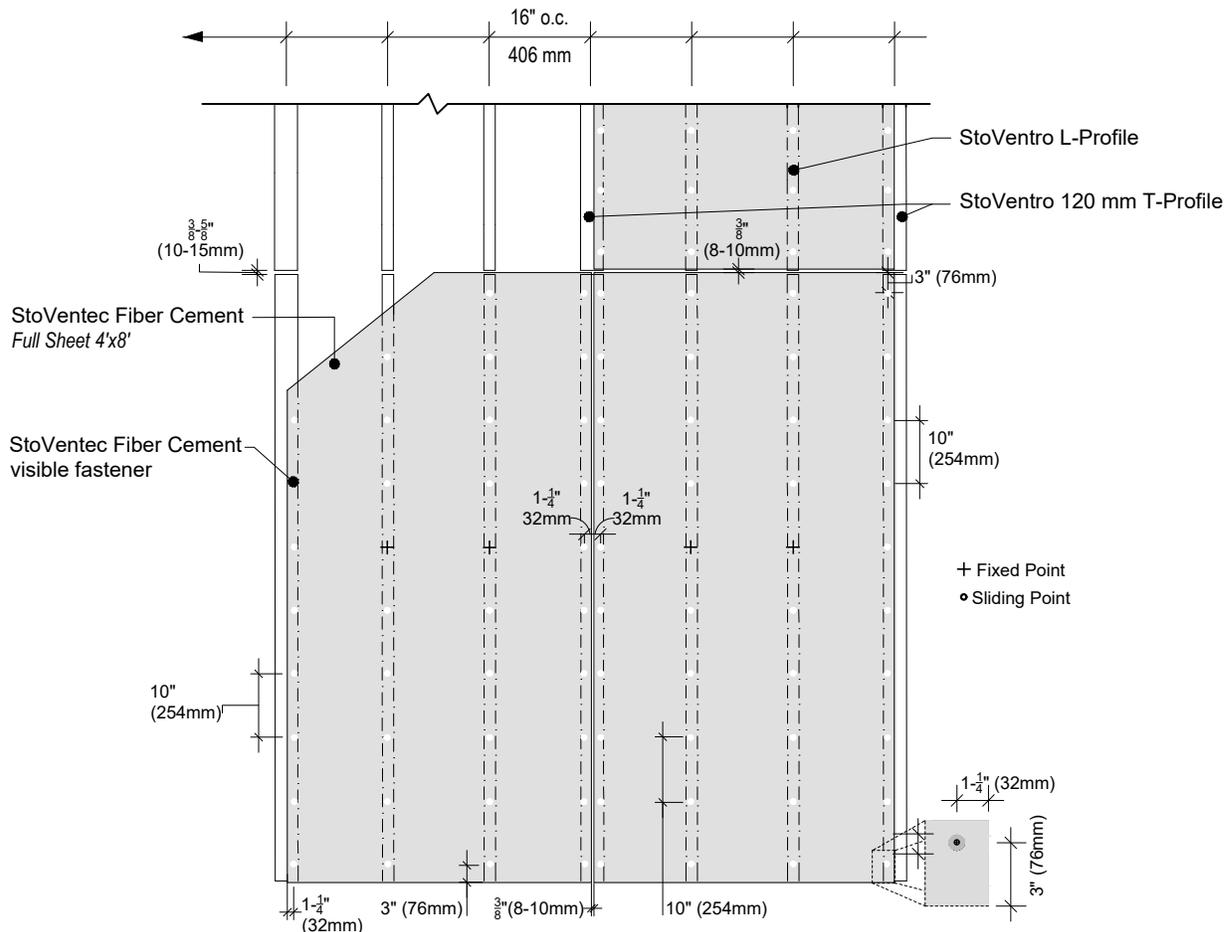
Date: August 2024

Detail No.: 90.Fc.004

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing:
-190 psf (9.1 kN/m²)

Layout Notes:

1. Vertical joints and edges of panels must break on T-Profiles (120mm) except at terminations.
2. Horizontal joints between vertical StoVentro profiles - leave 10-15mm gap between metal ends, and do NOT span the gap with fiber cement (horizontal joints for panels must also occur at/near rail joints - see Detail 90.Fc.35).
3. Joints between panels are spaced 8-10mm (~ $\frac{3}{8}$ ").
4. Panel Fixed Point fasteners must occur on separate rails near the panel centers. Refer to the *StoVentec Fiber Cement Design Guide* or full *Install Guide* for more information on fixed points and fastening sequences.



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StoVentec® Fiber Cement

Vertical Panel Example Layout

StoVentec F.C. (4 x 8 feet) Attachment (15 inch max. fastener spacing) to StoVentro™ L and T-Profiles, spaced at 16" o.c.(406mm), Field and Edge fastening of StoVentec F.C.

Elevation View

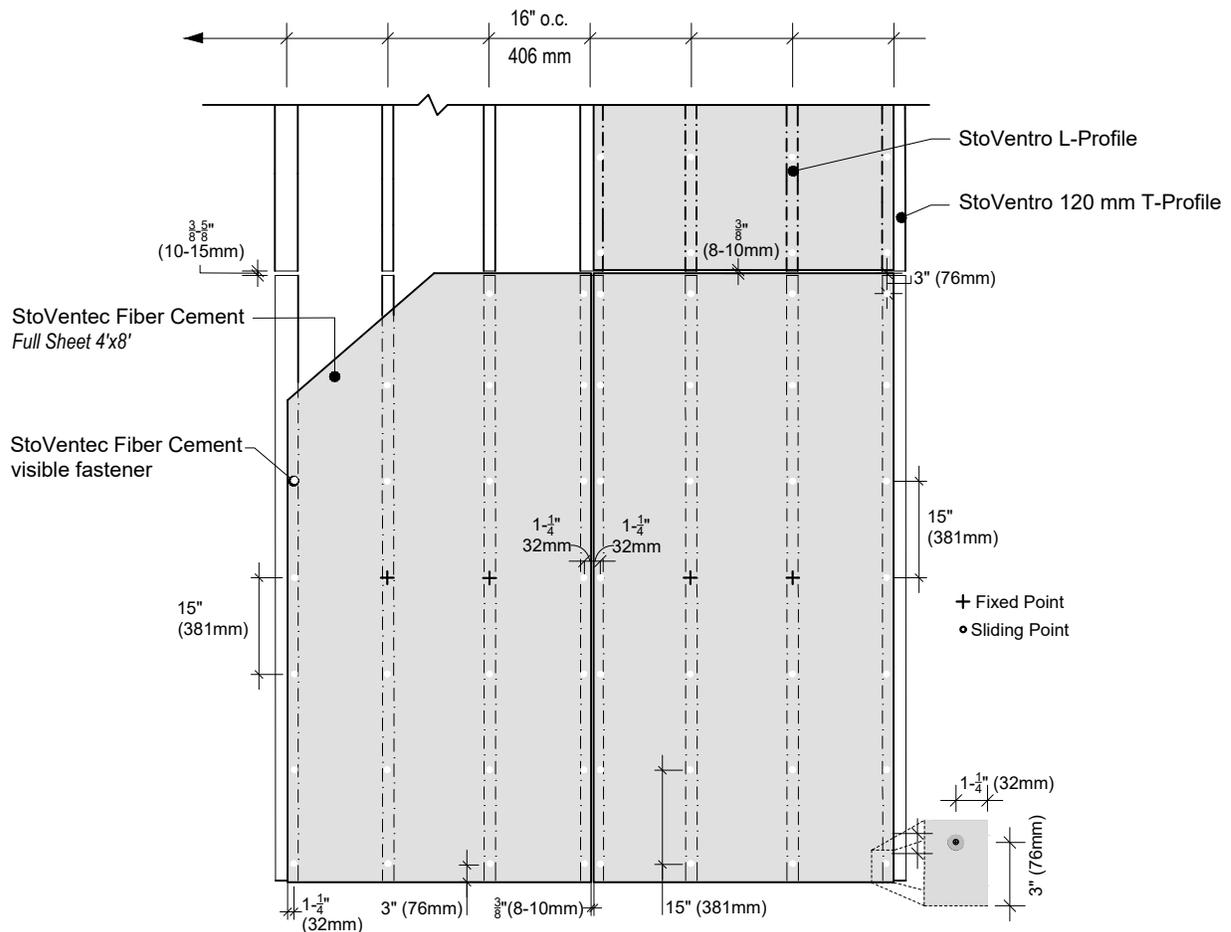
Date: August 2024

Detail No.: 90.Fc.005

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing:
 -161 psf (7.71 kN/m²)

Layout Notes:

1. Vertical joints and edges of panels must break on T-Profiles (120mm) except at terminations.
2. Horizontal joints between vertical profiles - leave 10-15mm gap between metal ends, and do NOT span the gap with fiber cement (horizontal joints for panels must also occur at/near rail joints - see Detail 90.Fc.35).
3. Joints between panels are spaced 8-10mm (~ $\frac{3}{8}$ ").
4. Panel Fixed Point fasteners must occur on separate rails near the panel centers. Refer to the *StoVentec Fiber Cement Design Guide* or full *Install Guide* for more information on fixed points and fastening sequences.



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StoVentec® Fiber Cement

Vertical Panel Example Layout - Horizontal Profiles

StoVentec F.C. (4 x 8 feet) Attachment (10-1/2 inch max. fastener spacing horizontally) to horizontal profiles, spaced at 22-1/2 o.c.(572mm), Field and Edge fastening of StoVentec F.C. Elevation View

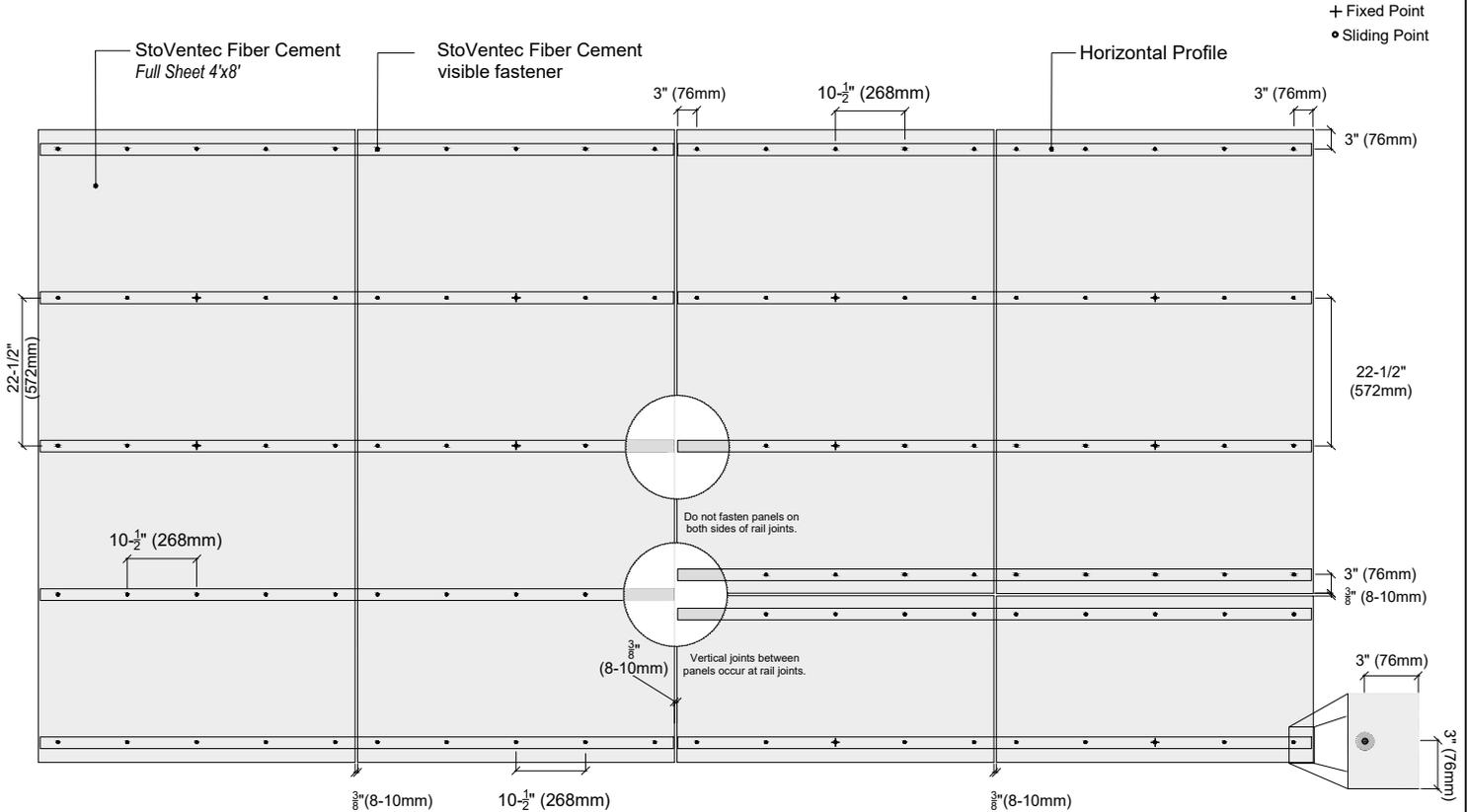
Date: August 2024

Detail No.: 90.Fc.007

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing:
-196 psf (9.38 kN/m²)

Layout Notes:

1. Joints between panels are spaced 8-10mm (~³/₈").
2. Vertical joints between horizontal profiles - leave 10-15mm gap between metal ends, and do NOT span the gap with fiber cement (vertical joints for panels must also occur at/near rail joints).
3. Horizontal joints between panels are supported by two horizontal rails in order to accommodate the minimum fastener distance from panel edge of 76mm (3 in.).
4. Panel Fixed Point fasteners must occur on separate rails near the panel centers. Refer to the *StoVentec Fiber Cement Design Guide* or full *Install Guide* for more information on fixed points and fastening sequences.



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StoVentec® Fiber Cement

Vertical Panel Example Layout - Horizontal Profiles

StoVentec F.C. (4 x 8 feet) Attachment (21 inch max. fastener spacing horizontally) to horizontal profiles, spaced at 22-1/2 o.c.(572mm), Field and Edge fastening of StoVentec F.C.

Elevation View

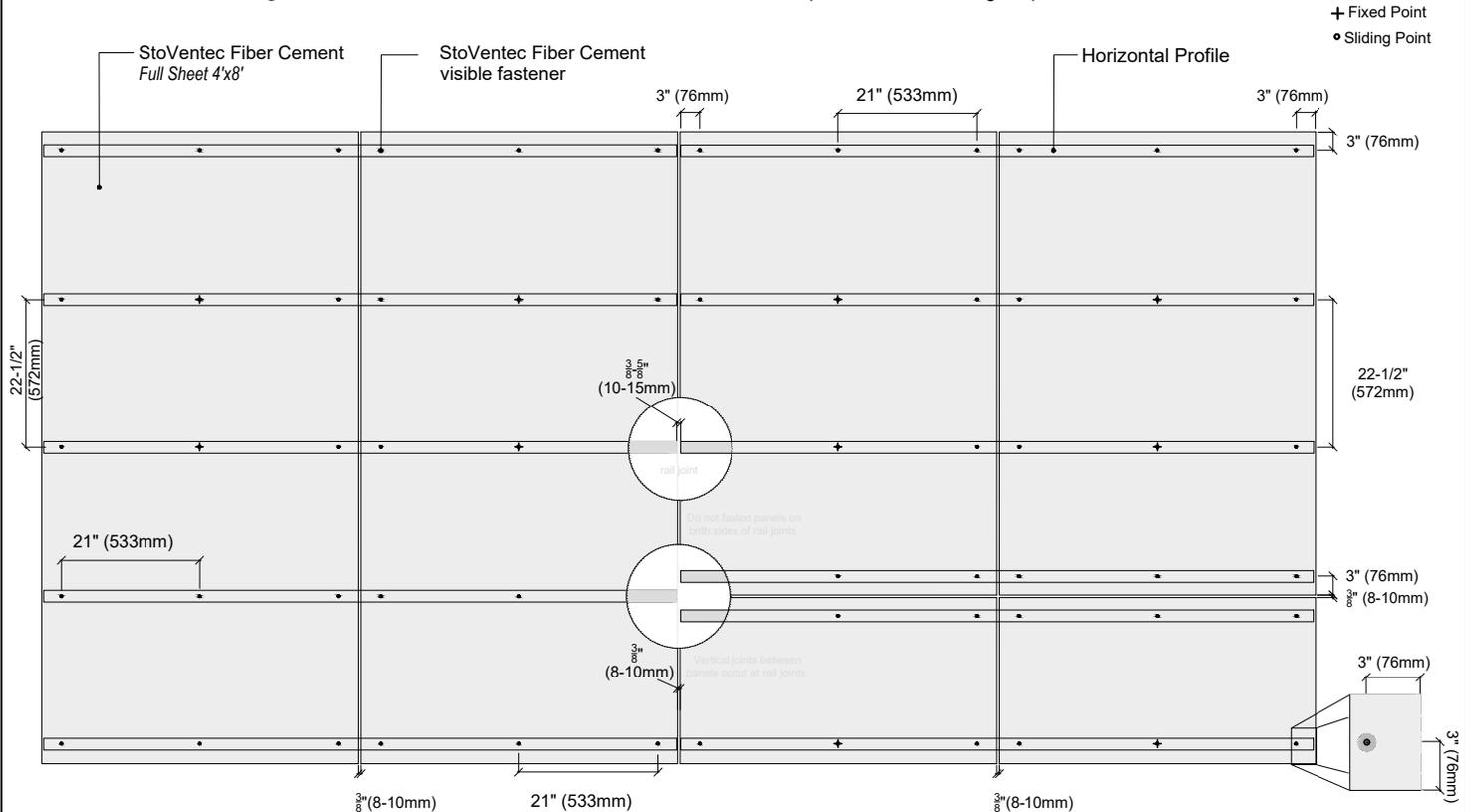
Date: August 2024

Detail No.: 90.Fc.009

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing:
-95 psf (4.55 kN/m²)

Layout Notes:

1. Joints between panels are spaced 8-10mm (~ $\frac{3}{8}$ ").
2. Vertical joints between horizontal profiles - leave 10-15mm gap between metal ends, and do NOT span the gap with fiber cement (vertical joints for panels must also occur at/near rail joints).
3. Horizontal joints between panels are supported by two horizontal rails in order to accommodate the minimum fastener distance from panel edge of 76mm (3 in.).
4. Panel Fixed Point fasteners must occur on separate rails near the panel centers. Refer to the *StoVentec Fiber Cement Design Guide* or full *Install Guide* for more information on fixed points and fastening sequences.

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Building with conscience.

StoVentec® Fiber Cement

Horizontal Panel Example Layout

StoVentec F.C. (4 x 8 feet) Attachment (10-1/2 inch (260mm) max. fastener spacing) to StoVentro™ Profiles, spaced at 24" o.c.(610mm), Field and Edge fastening of StoVentec F.C. Elevation View

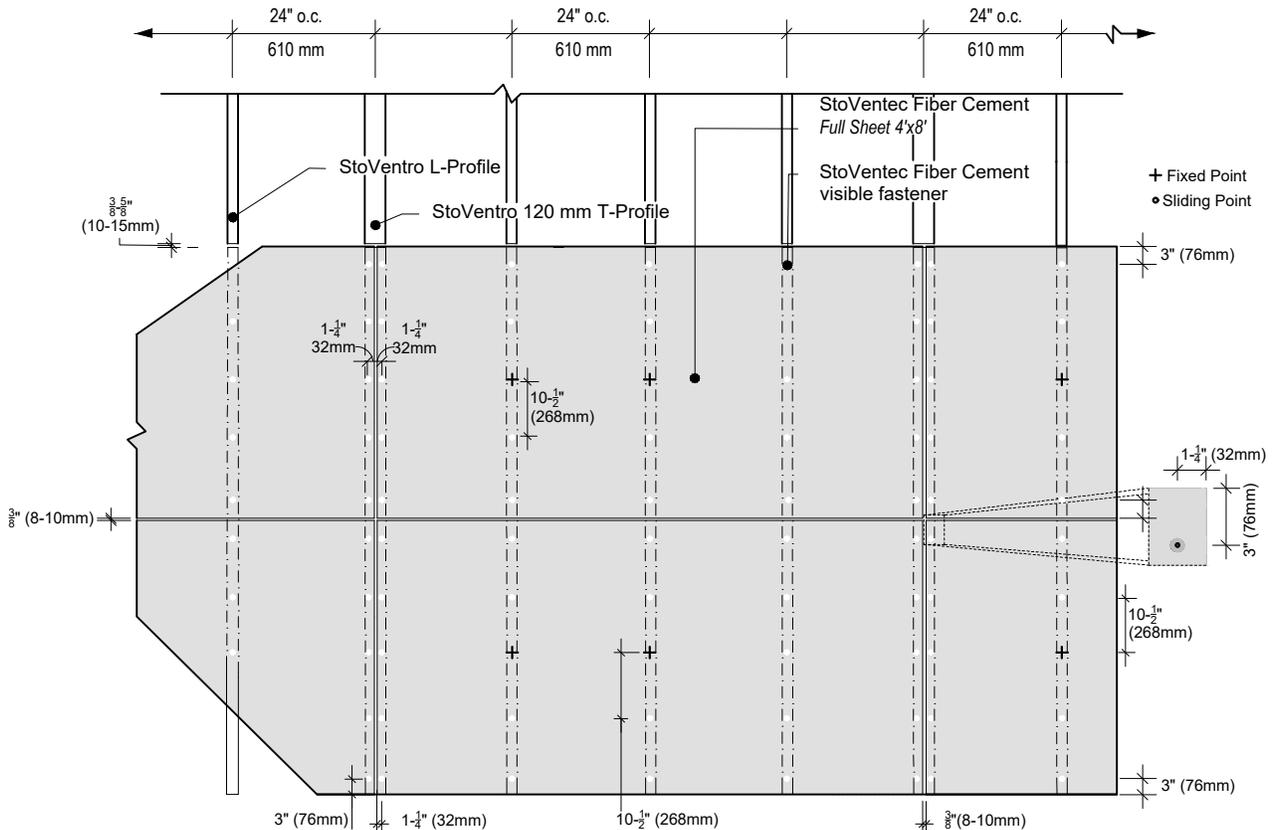
Date: May 2025

Detail No.: 90.Fc.012

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing:
-150 psf (7.18 kN/m²)

Layout Notes:

1. For Staggered/running-bond layouts, exchange L-Profiles for T-Profiles (120mm) as necessary to ensure all vertical panel joints meet on T-Profiles.
2. Horizontal joints between vertical Ventro profiles - leave 10-15mm gap between metal ends, and do NOT span the gap with fiber cement (horizontal joints for panels must also occur at/near rail joints - see Detail 90.Fc.35).
3. Joints between panels are spaced 8-10mm (~ $\frac{3}{8}$ ").
4. Panel Fixed Point fasteners must occur on separate rails near the panel centers. Refer to the *StoVentec Fiber Cement Design Guide* or full *Install Guide* for more information on fixed points and fastening sequences.



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Building with conscience.

StoVentec® Fiber Cement

Horizontal Panel Example Layout

StoVentec F.C. (4 x 8 feet) Attachment (21 inch (530mm) max. fastener spacing) to StoVentro™ Profiles, spaced at 24" o.c.(610mm), Field and Edge fastening of StoVentec F.C.

Elevation View

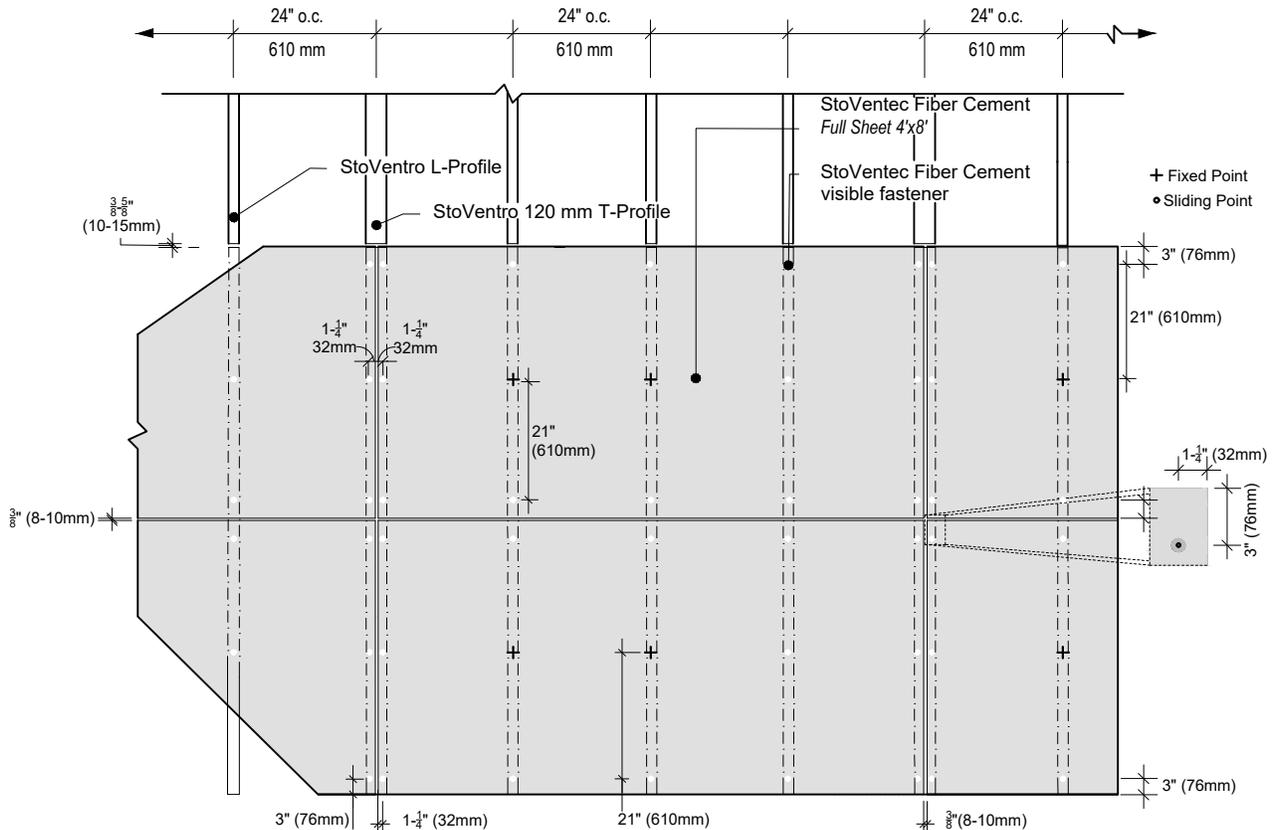
Date: May 2025

Detail No.: 90.Fc.014

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

Layout Notes:

1. For Staggered/running-bond layouts, exchange L-Profiles for T-Profiles (120mm) as necessary to ensure all vertical panel joints meet on T-Profiles.
2. Horizontal joints between vertical Ventro profiles - leave 10-15mm gap between metal ends, and do NOT span the gap with fiber cement (horizontal joints for panels must also occur at/near rail joints - see Detail 90.Fc.35).
3. Joints between panels are spaced 8-10mm (~ $\frac{3}{8}$ ").
4. Panel Fixed Point fasteners must occur on separate rails near the panel centers. Refer to the *StoVentec Fiber Cement Design Guide* or full *Install Guide* for more information on fixed points and fastening sequences.



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StoVentec Fiber Cement

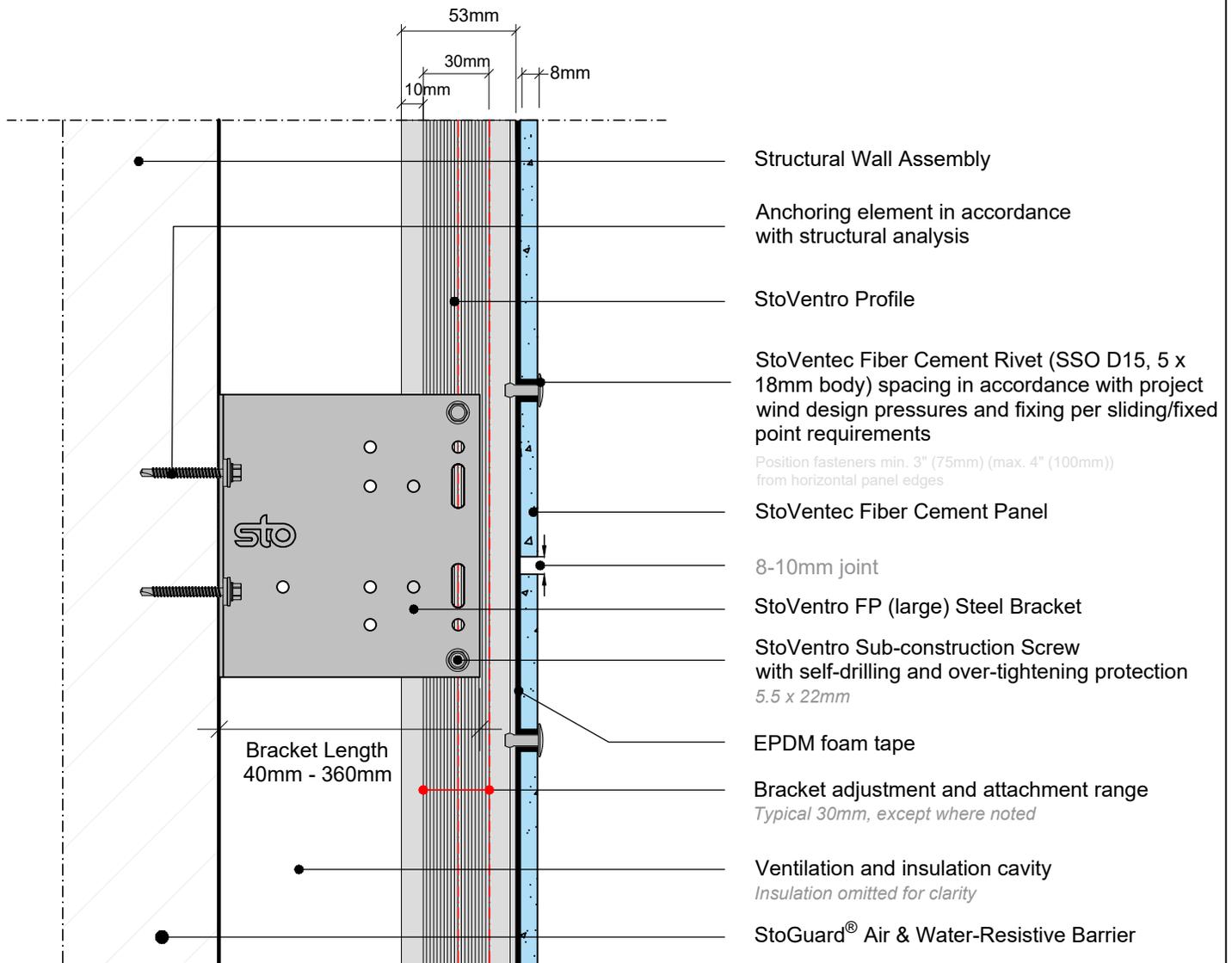
System buildup with StoVentro Sub-construction

Steel Brackets

Section View

Date: November 2024

Detail No.: 90.Fc.20



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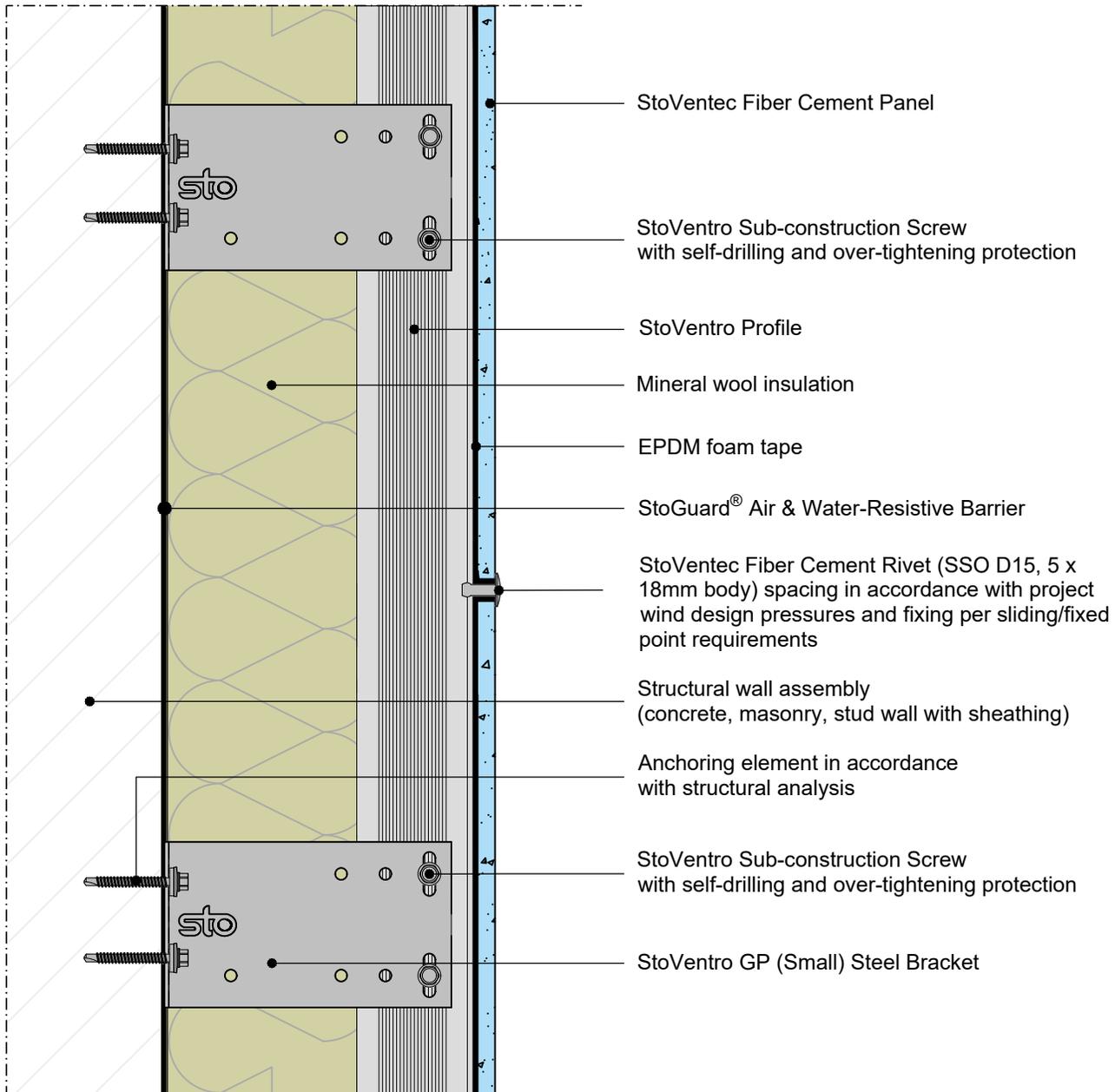
StoVentec Fiber Cement panel installation

StoVentro™ Sub-Construction System build up - visible F.C. fixing

Date: November 2024

Section View

Detail No.: 90.Fc.022



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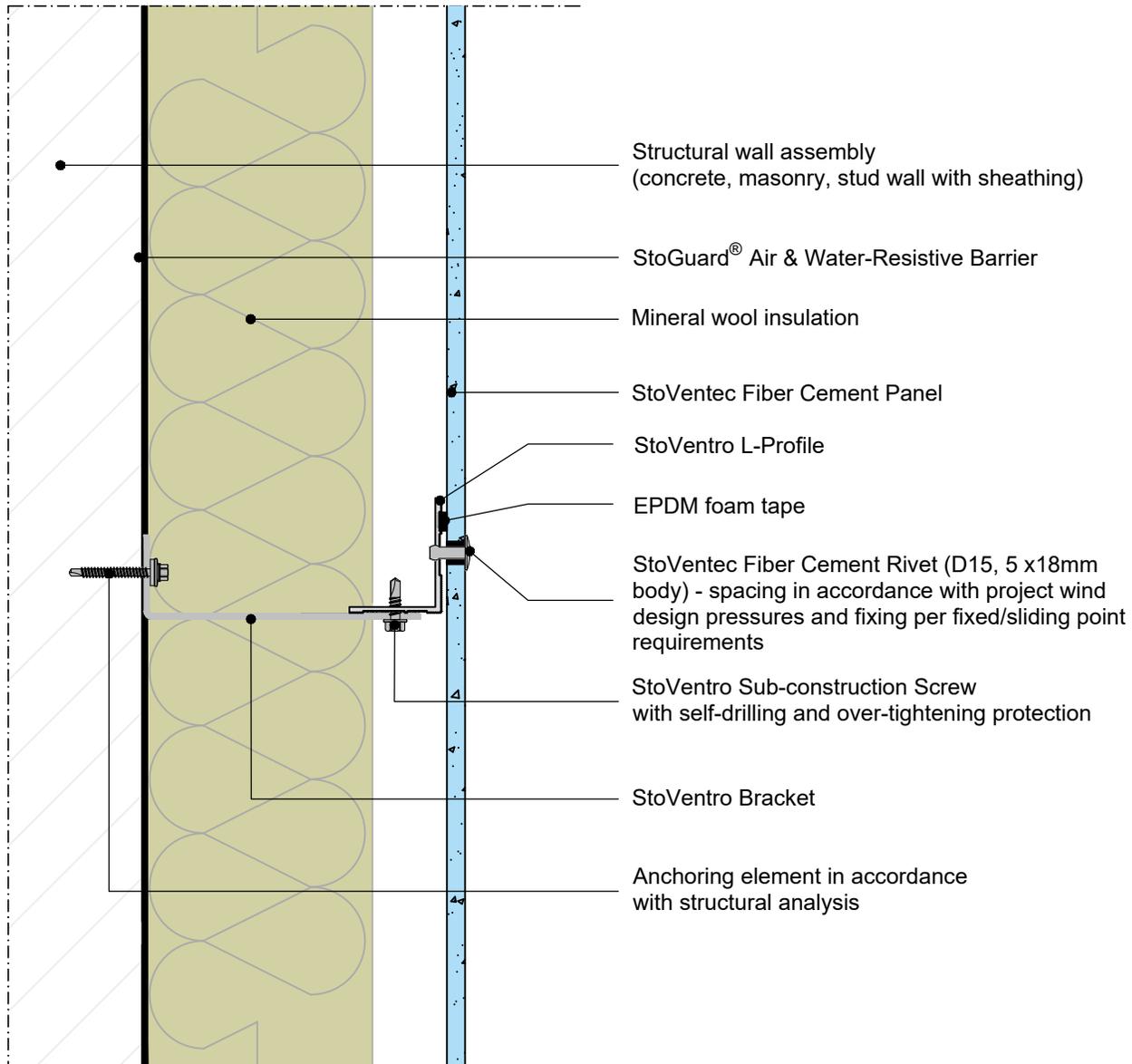
StoVentec Fiber Cement Panel Installation

StoVentro™ Sub-Construction System - L-Profile in Panel Field

Date: November 2024

Plan View

Detail No.: 90.Sc.031



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StoVentec Fiber Cement Panel Installation

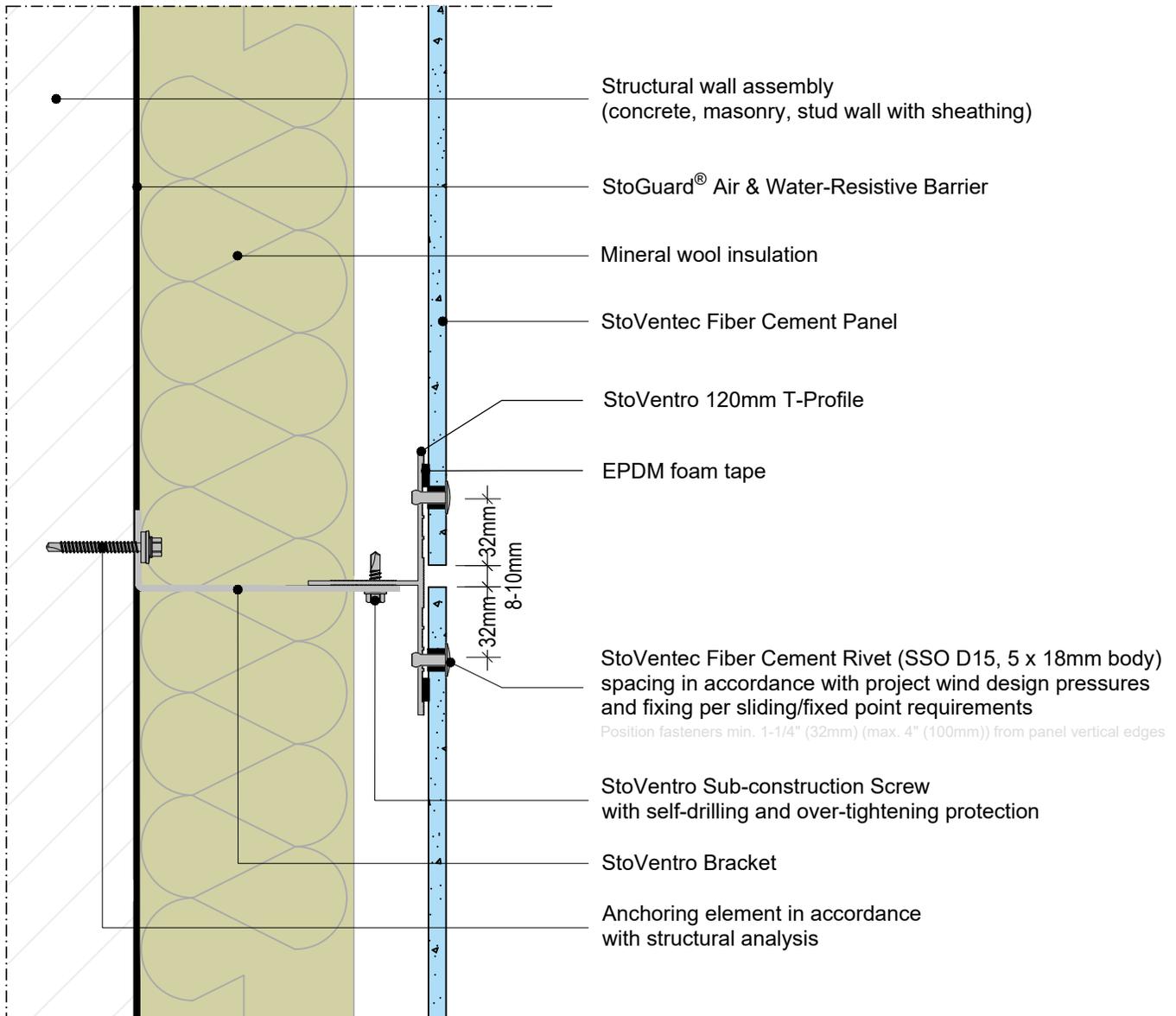
Vertical joint at T-Profile

StoVentro™ Sub-Construction System

Plan View

Date: November 2024

Detail No.: 90.Fc.032



ATTENTION

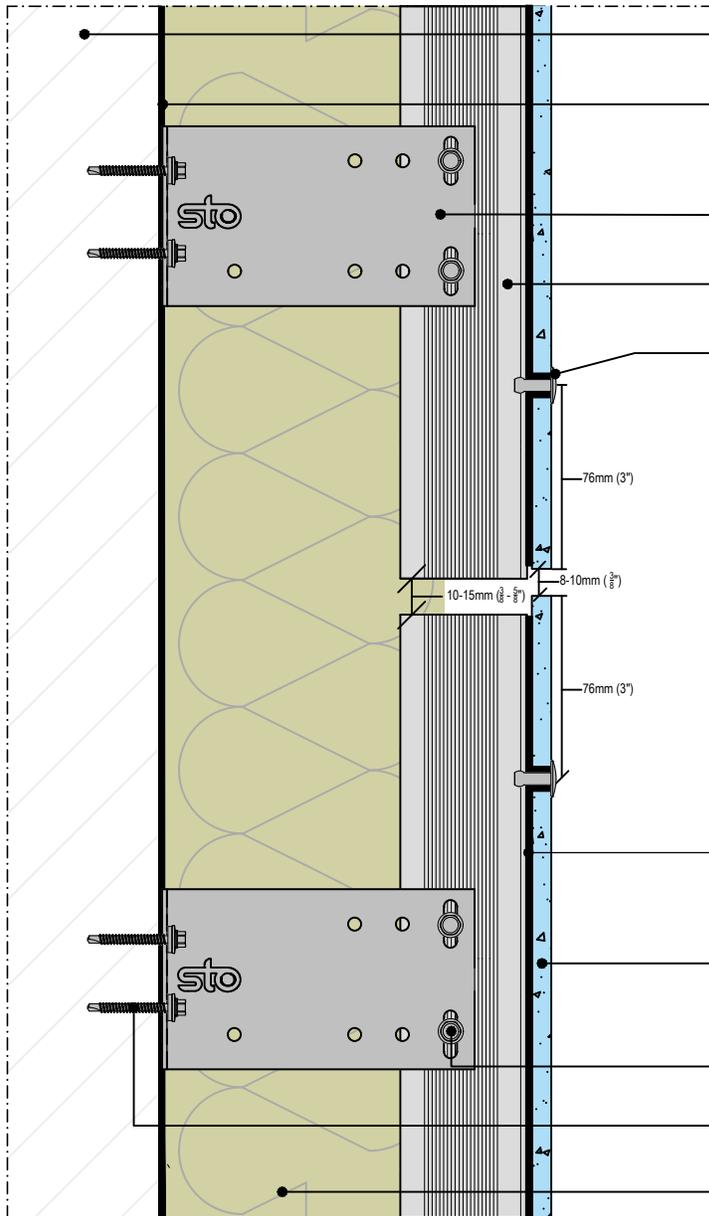
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StoVentec™ Fiber Cement
 StoVentro Sub-construction
 Horizontal Joint at Vertical Profile Joint
 Section View

Date: November 2024

Detail No.: 90.Fc.035



Structural wall assembly
 (concrete, masonry, stud wall with sheathing)

StoGuard® Air & Water-Resistive Barrier

StoVentro Bracket

StoVentro Profile

StoVentec Fiber Cement Rivet (D15, 5 x18mm body)
 spacing in accordance with project wind design
 pressures and fixing per sliding/fixed joint
 requirements.

Position fasteners min. 3 inches (76mm) (max. 4 inches (100mm)) away from panel horizontal
 edges (those running perpendicular to StoVentro Profiles).

Note: Never fasten the same panel above
 and below a Profile joint. A horizontal
 panel joint must occur at/near a profile
 joint.

EPDM foam tape

StoVentec Fiber Cement Panel

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

Anchoring element in accordance
 with structural analysis

Mineral wool insulation

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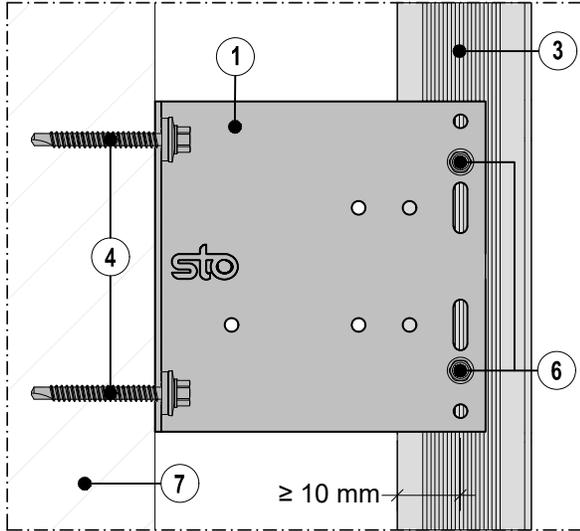
StoVentro™ Sub-Construction System

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

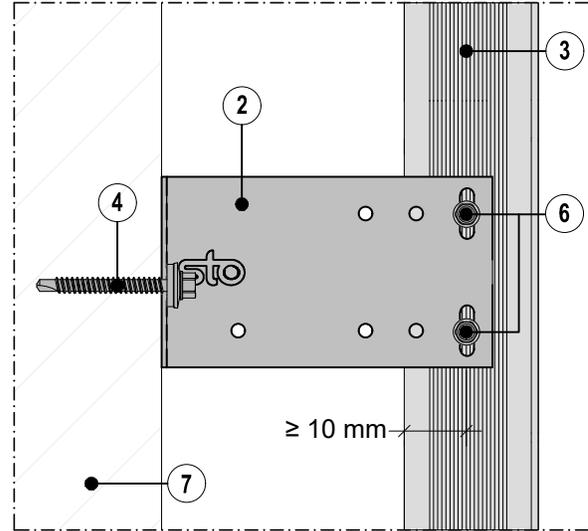
Section View

Date: January 2024

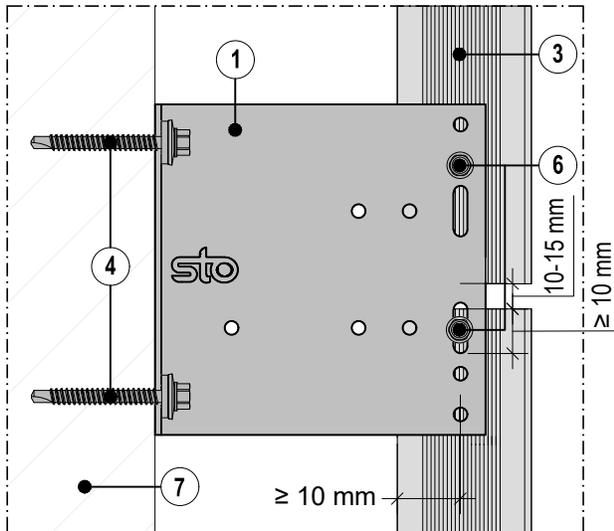
Detail No.: 90.Sc.045



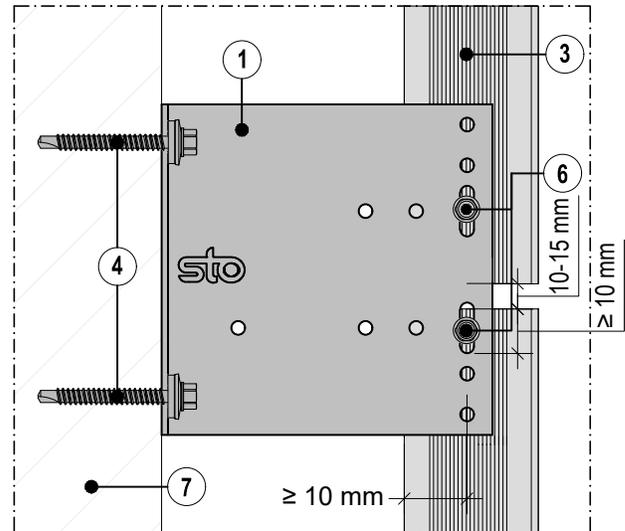
StoVentro™ Bracket - Large (FP) | Fixed point fastening



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



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



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

① StoVentro™ Steel Bracket Large (FP)

③ StoVentro™ T-Profile

⑥ StoVentro™ Sub-construction Screw with self-drilling and over-tightening protection (5.5 x 22 mm)

② StoVentro™ Steel Bracket Small (GP)

④ Anchoring element in accordance with structural analysis

⑦ Structural wall assembly (concrete, masonry, stud wall with sheathing)

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Note: All values are subject to structural analysis.

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StoVentro™ Sub-Construction System

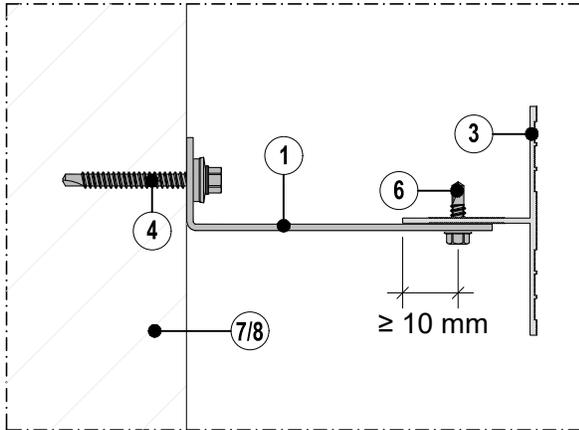
StoVentro™ Steel Brackets - Large (FP) and Small (GP) attachment locations

Elevation & Plan Views

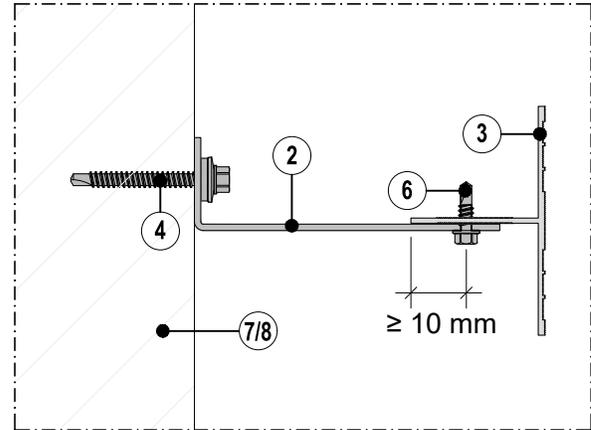
Date: January 2024

Detail No.: 90.Sc.046

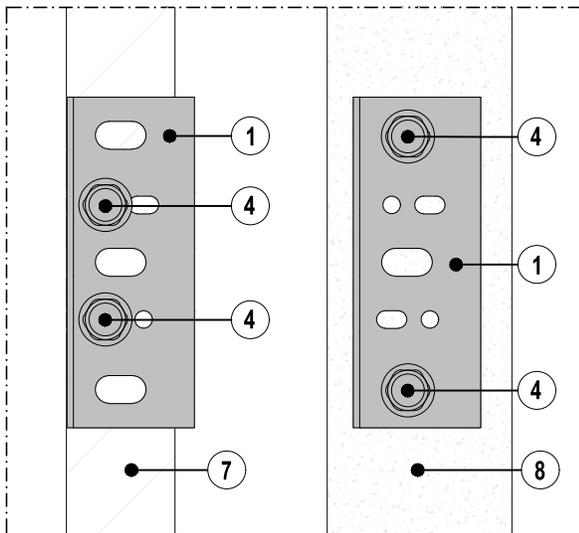
Note: All values are subject to structural analysis.



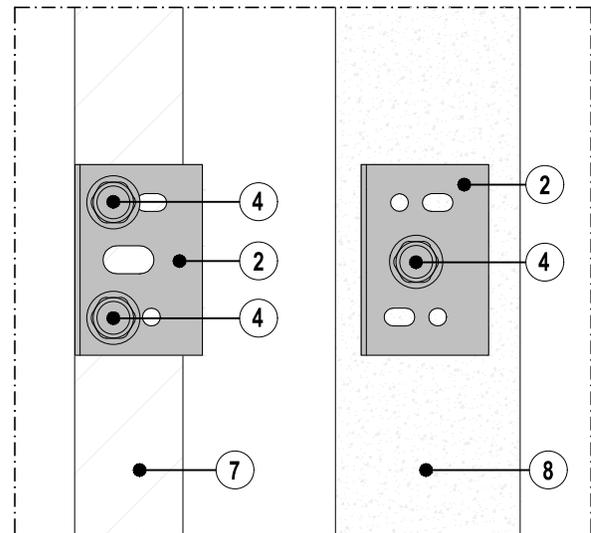
StoVentro™ Bracket - Large (FP)
Plan View Attachment



StoVentro™ Bracket - Small (GP)
Plan View Attachment



StoVentro™ Bracket - Large (FP)
Elevation View Attachment



StoVentro™ Bracket - Small (GP)
Elevation View Attachment

- | | | |
|---------------------------------------|--|---|
| ① StoVentro™ Steel Bracket Large (FP) | ③ StoVentro™ T-Profile | ⑥ StoVentro™ Sub-construction Screw with self-drilling and over-tightening protection (5.5 x 22 mm) |
| ② StoVentro™ Steel Bracket Small (GP) | ④ Anchoring element in accordance with structural analysis | ⑦ Structural wall assembly (stud wall with sheathing) |
| | | ⑧ Structural wall assembly (concrete and masonry) |

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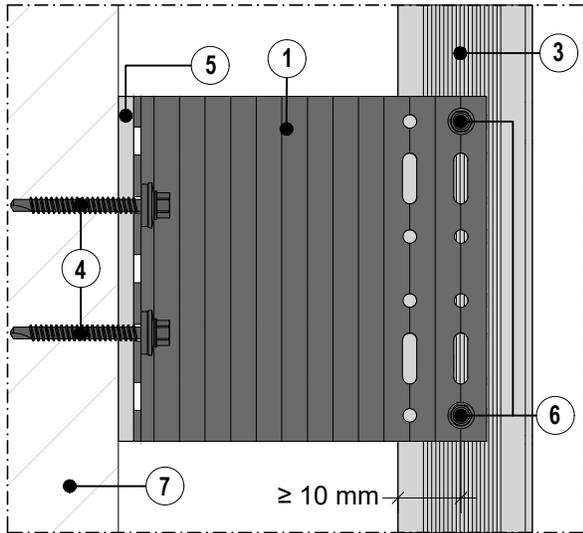
StoVentro™ Sub-Construction System

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

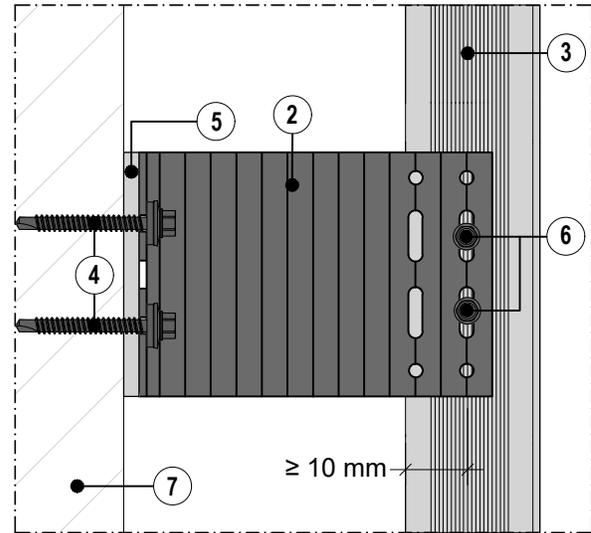
Section View

Date: May 2021

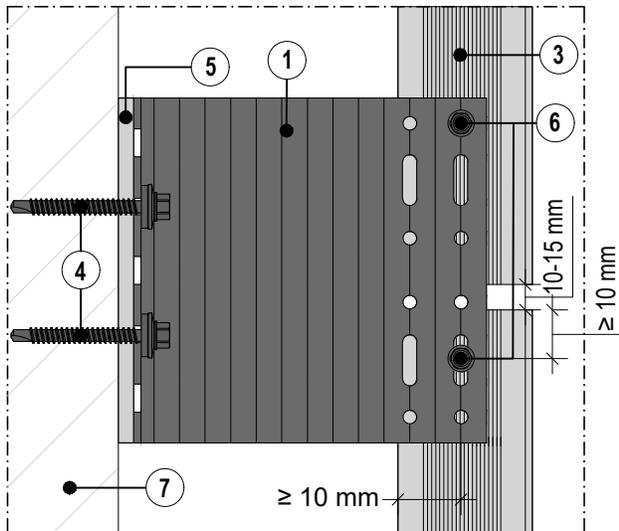
Detail No.: 90.Sc.047



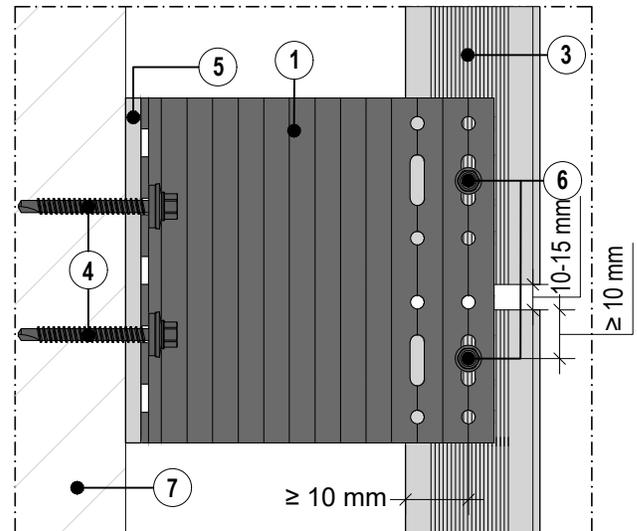
StoVentro™ ALUM Bracket - Large (FP) | Fixed point fastening



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

① StoVentro™ ALUM Bracket Large (FP)

③ StoVentro™ T-Profile

⑥ StoVentro™ Sub-construction Screw with self-drilling and over-tightening protection (5.5 x 22 mm)

② StoVentro™ ALUM Bracket Small (GP)

④ Anchoring element in accordance with structural analysis

⑦ Structural wall assembly (concrete, masonry, stud wall with sheathing)

⑤ StoVentro™ Thermal Blocking Element

ATTENTION

Note: All values are subject to structural analysis.

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StoVentro™ Sub-Construction System

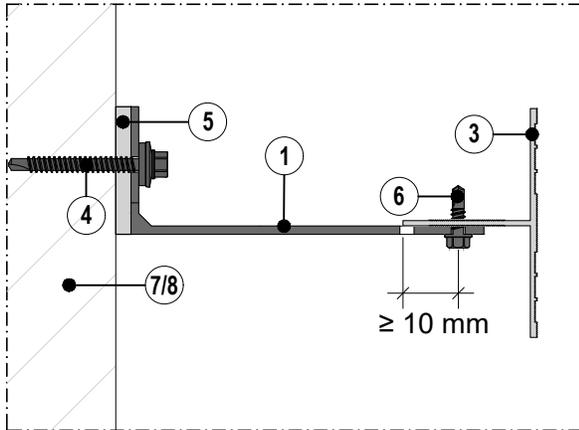
StoVentro™ Aluminum Brackets - Large (FP) and Small (GP) attachment locations

Elevation & Plan Views

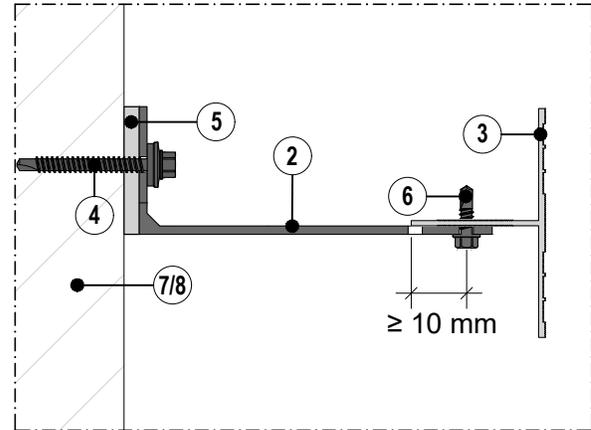
Date: May 2021

Detail No.: 90.Sc.048

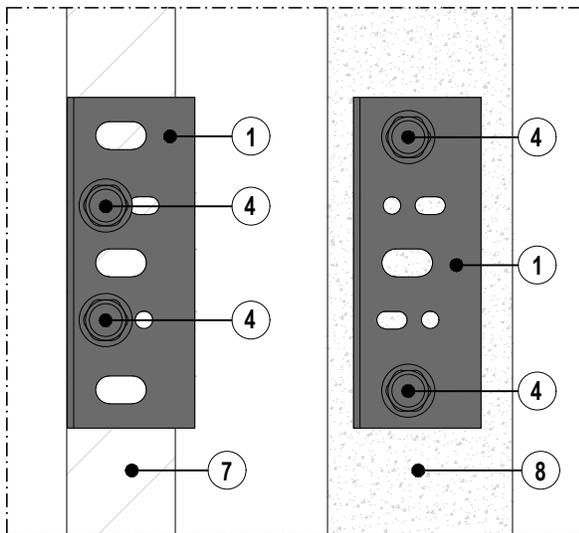
Note: All values are subject to structural analysis.



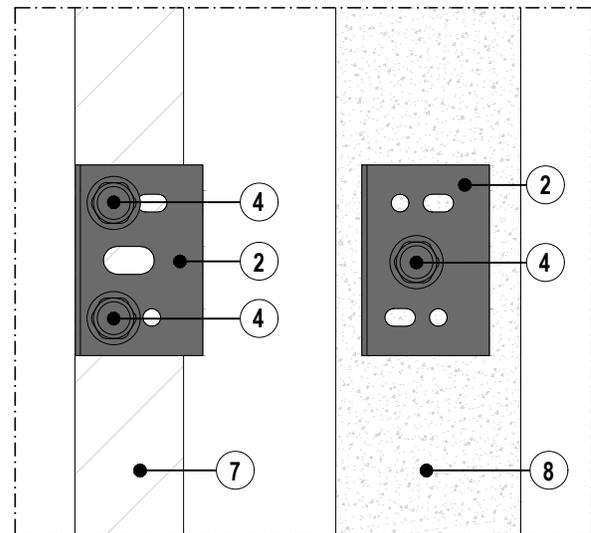
StoVentro™ ALUM Bracket - Large (FP)
Plan View Attachment



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) | ③ StoVentro™ T-Profile | ⑥ StoVentro™ Sub-construction Screw with self-drilling and over-tightening protection (5.5 x 22 mm) |
| ② StoVentro™ ALUM Bracket Small (GP) | ④ Anchoring element in accordance with structural analysis | ⑦ Structural wall assembly (stud wall with sheathing) |
| ⑤ StoVentro™ Thermal Blocking Element | ⑧ Structural wall assembly (concrete and masonry) | |

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StoVentec® Fiber Cement

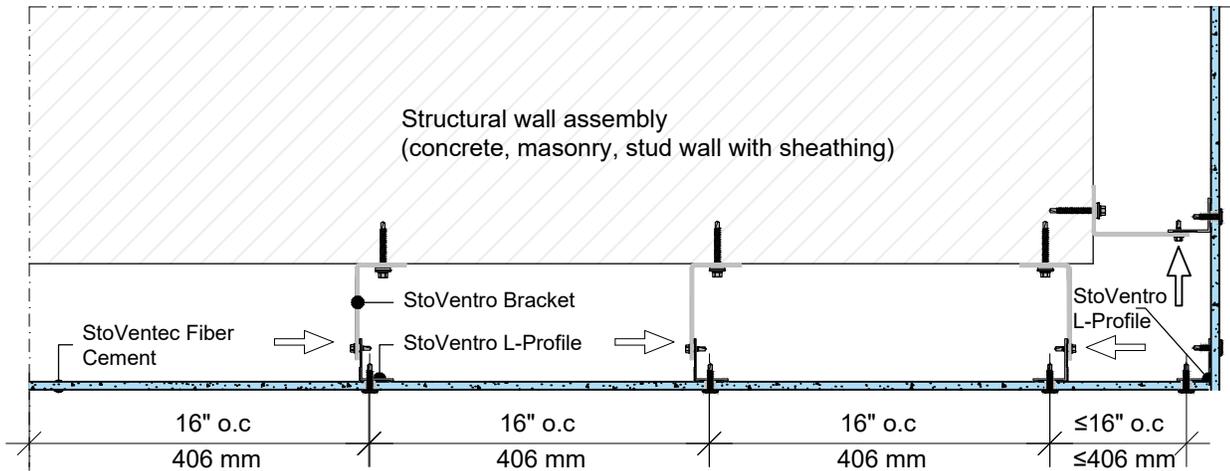
StoVentro™ Sub-construction Installation at outside corners, jambs, returning transitions, and transitions to alternative cladding

Plan View

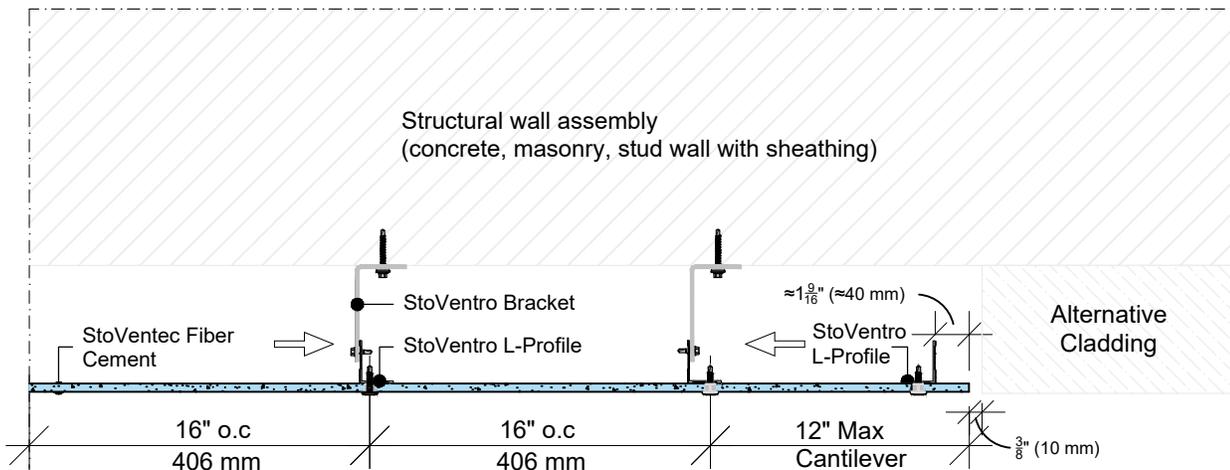
Date: August 2024

Detail No.: 90.Fc.049

⇒ Recommended fastening direction for connection of the StoVentro™ Wall Brackets to the vertical StoVentro™ Profile and alignment of the wall brackets



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



2 StoVentro™ Wall Brackets, Profile alignment and requirements at returning transitions and transitions to alternative cladding

Cantilever	L-Profile Required
6 in (154mm)	No
8 in (200mm)	Yes
12 in (300mm)	Yes

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StoVentec Fiber Cement panel installation

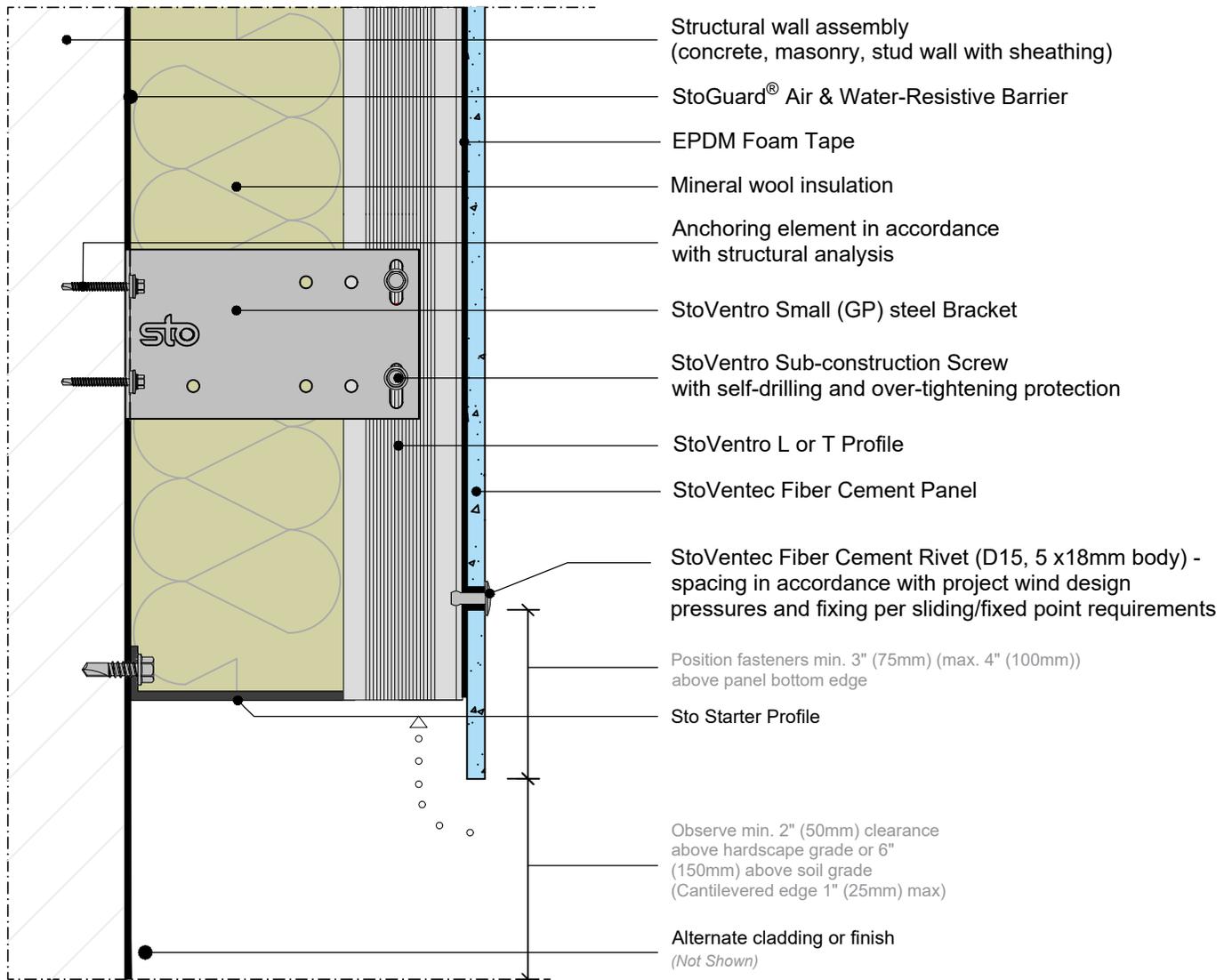
StoVentro™ Sub-Construction System

Installation at grade - visible f.c. fixing

Section View

Date: November 2024

Detail No.: 90.Fc.055



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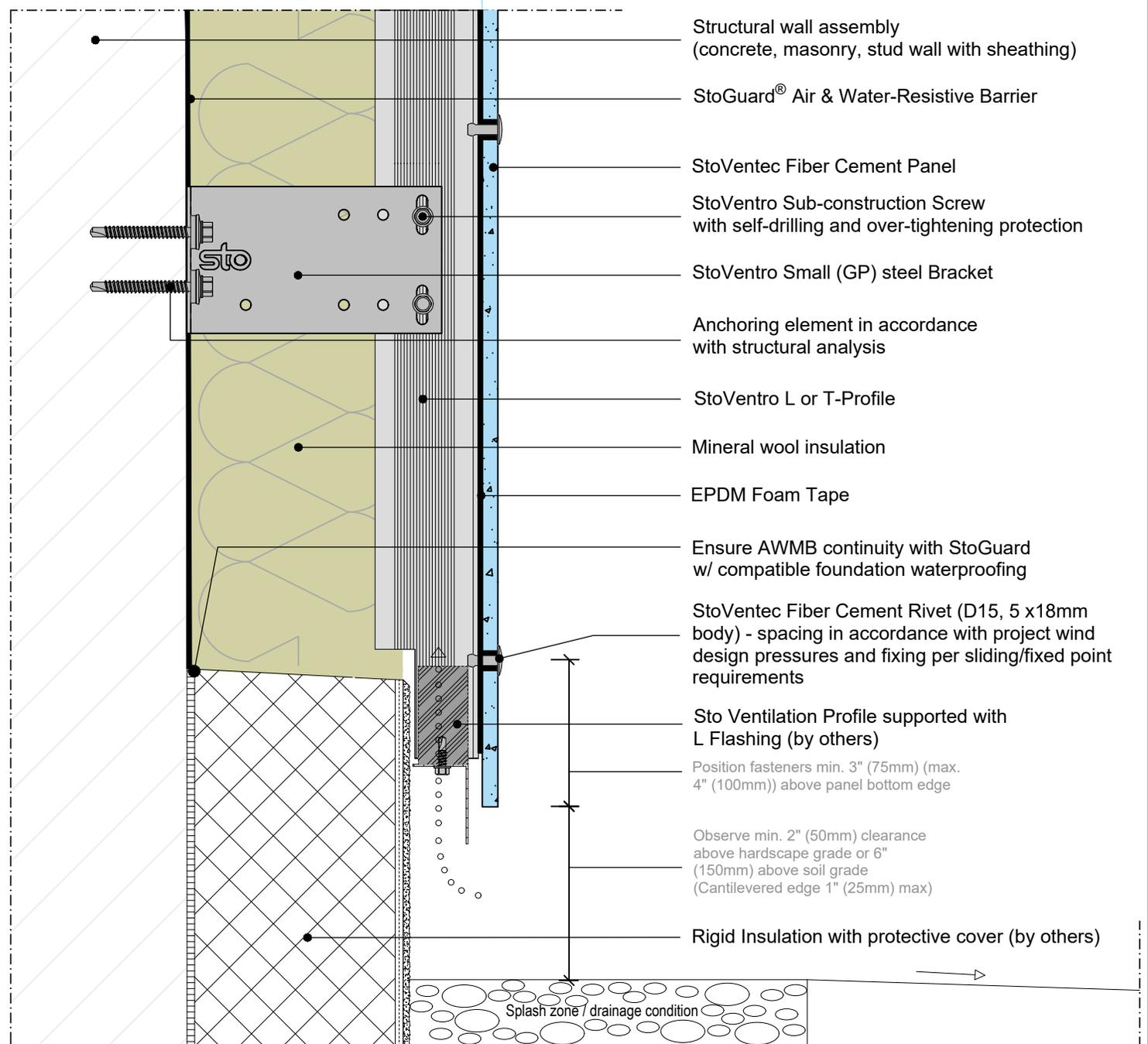
StoVentec Fiber Cement panel installation

StoVentro™ Sub-Construction System
 Installation at grade with Sto Ventilation Profile

Section View

Date: November 2024

Detail No.: 90.Sc.065



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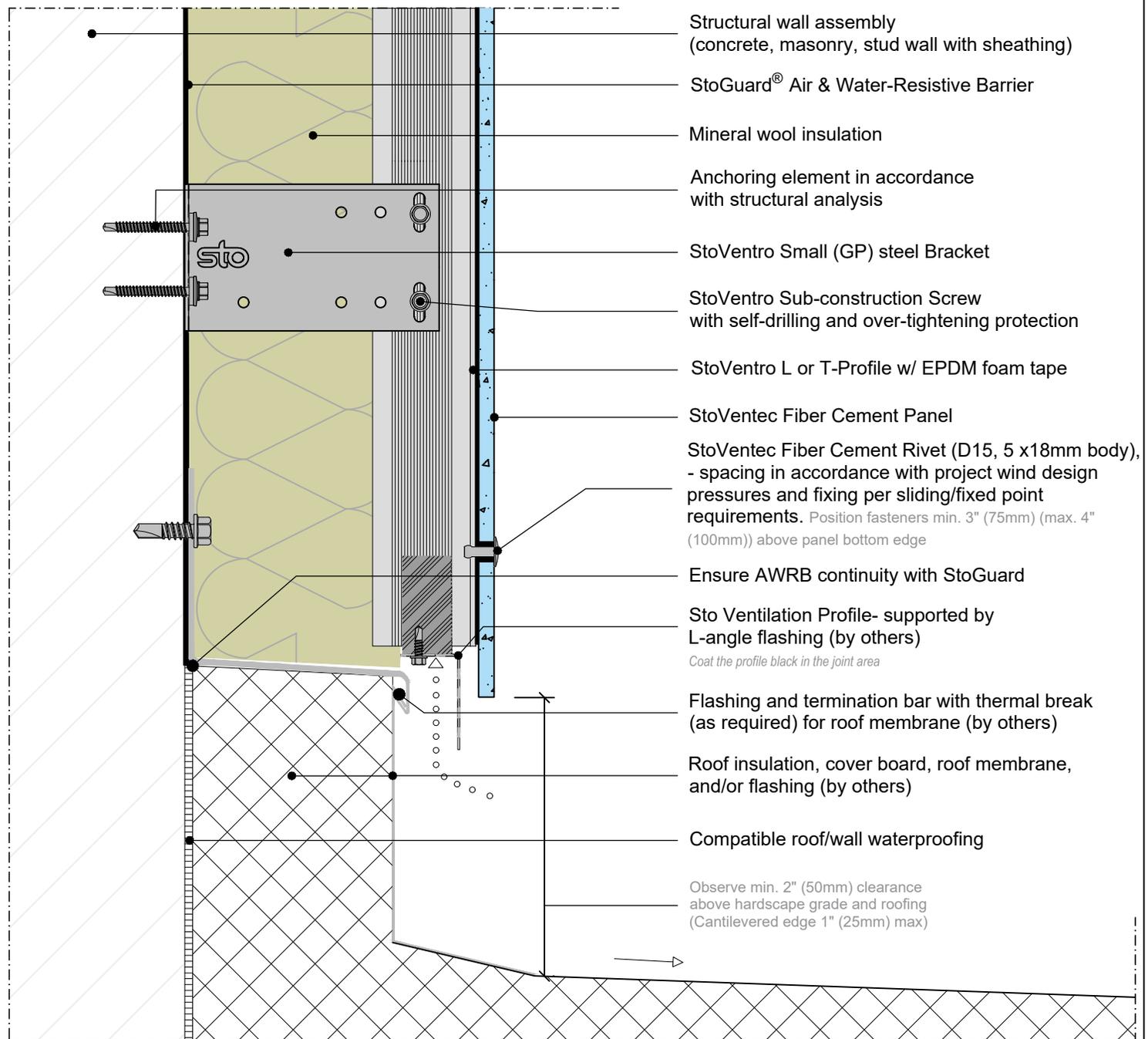
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StoVentec Fiber Cement
StoVentro™ Sub-Construction System
Installation at Roofline with Sto Ventilation Profile

Section View

Date: November 2024

Detail No.: 90.Fc.150



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StoVentec Fiber Cement

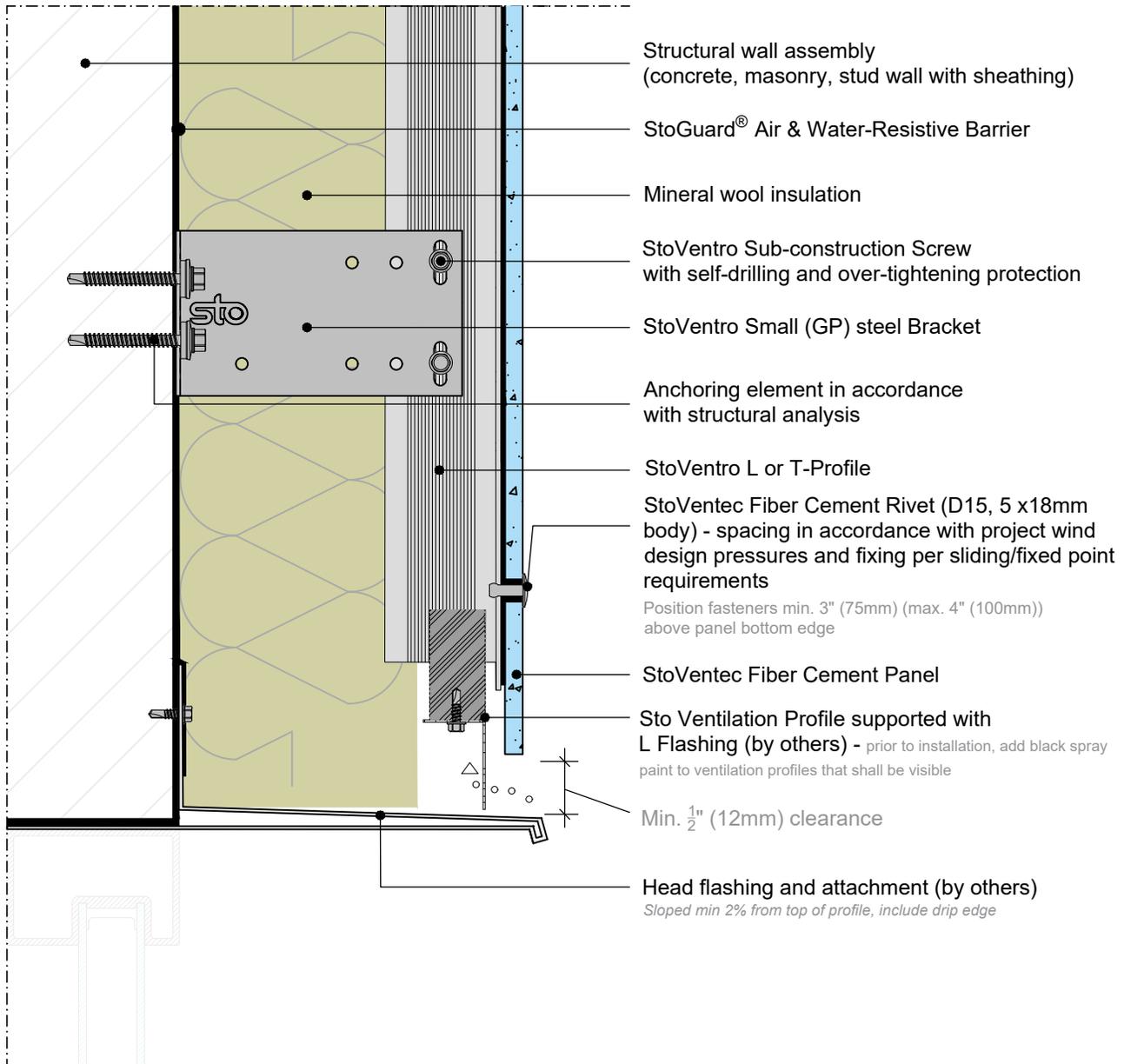
StoVentro™ Sub-Construction System

Installation at Window Head with head flashing and Ventilation Profile

Section View

Date: November 2024

Detail No.: 90.Fc.080

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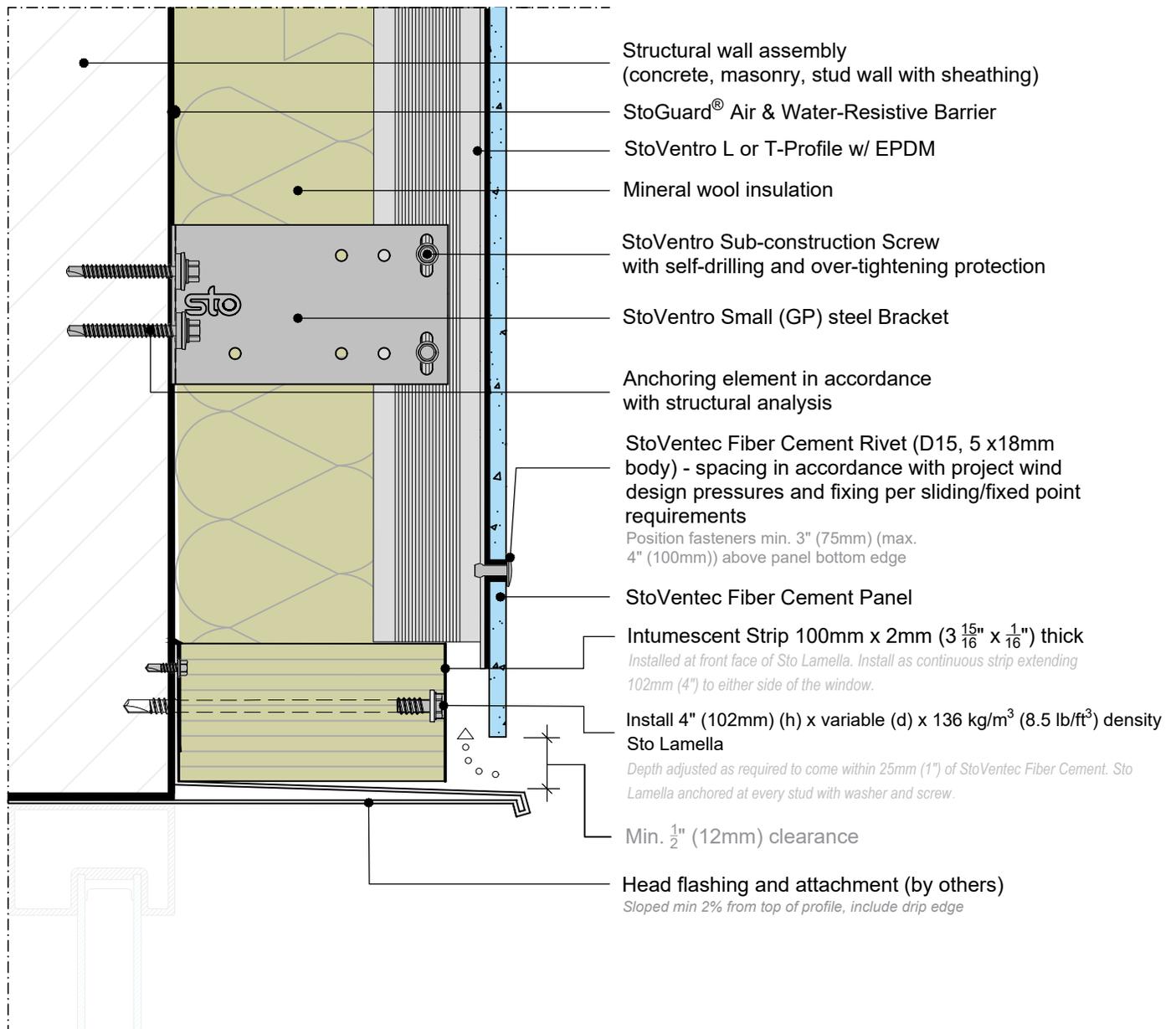
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StoVentec Fiber Cement**StoVentro™ Sub-Construction System****Fire protection at Window Head with Sto Lamella and Intumescent Tape**

Section View

Date: November 2024

Detail No.: 90.Fc.082

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StoVentec Fiber Cement

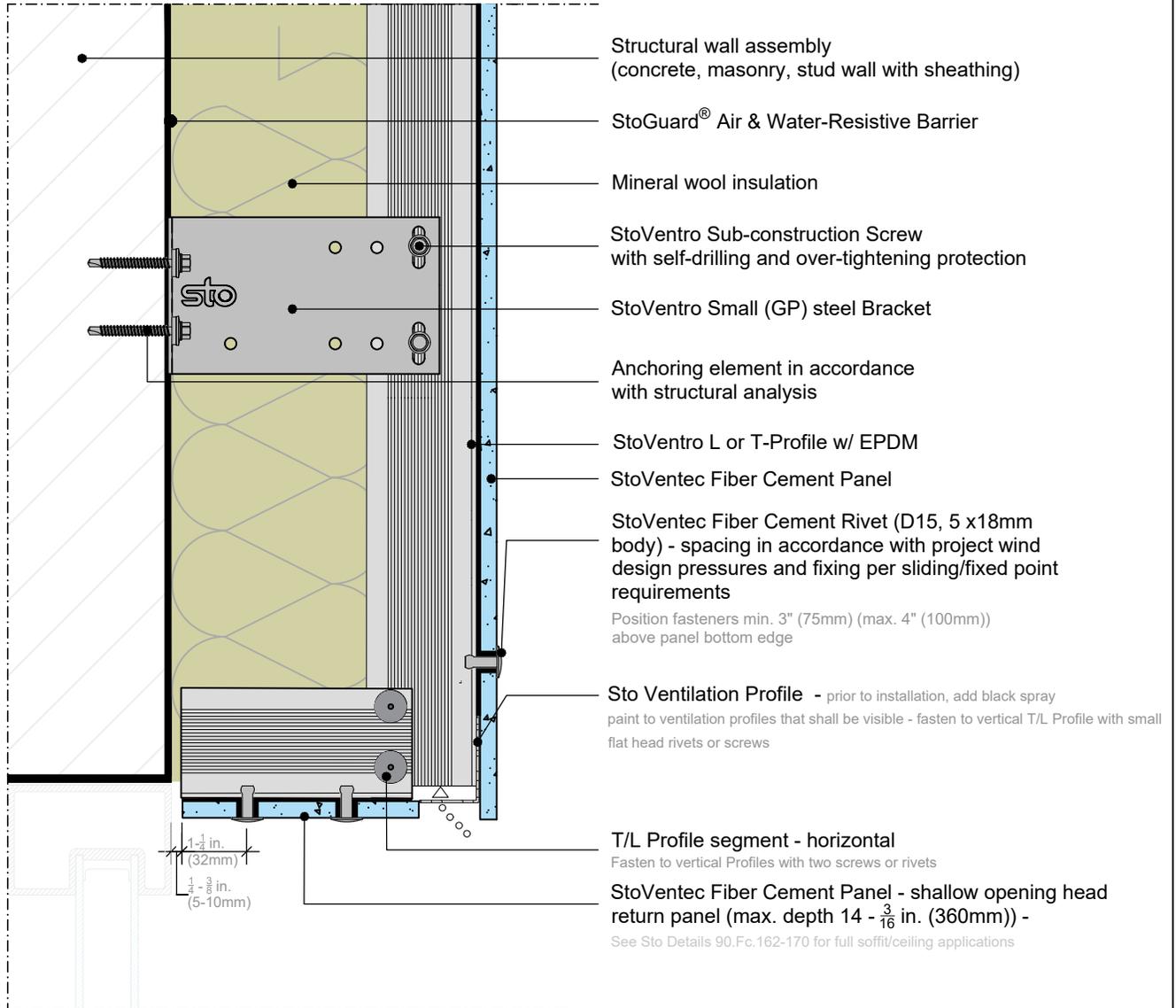
StoVentro™ Sub-Construction System

Installation at Shallow Window Head with Fiber Cement (maximum depth $14 - \frac{3}{16}$ in. (360mm)) and Ventilation Profile

Section View

Date: December 2024

Detail No.: 90.Fc.084



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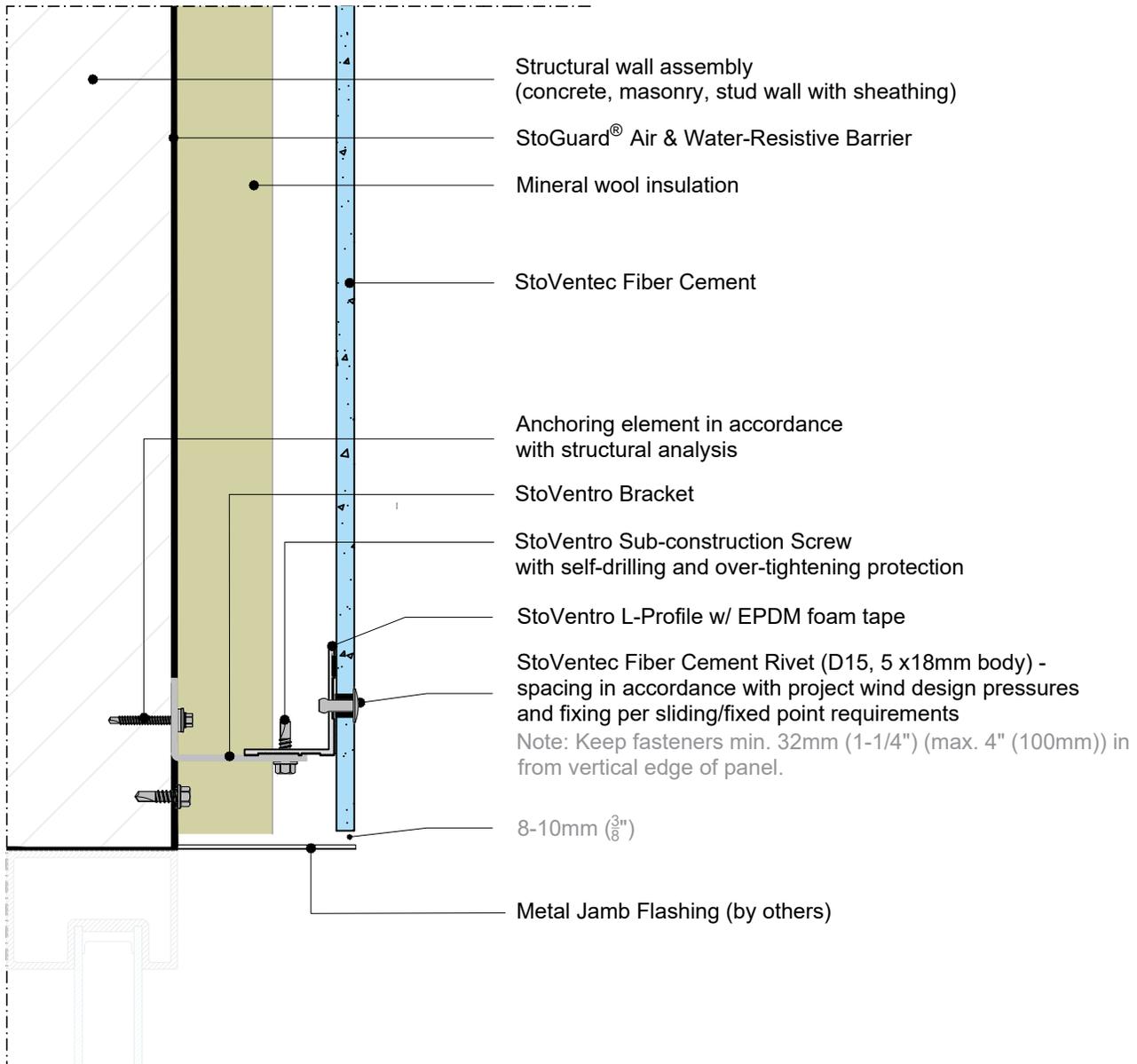
StoVentec® Fiber Cement StoVentro Sub-construction

Window Jamb - Metal Return

Plan View

Date: November 2024

Detail No.: 90.Fc.086



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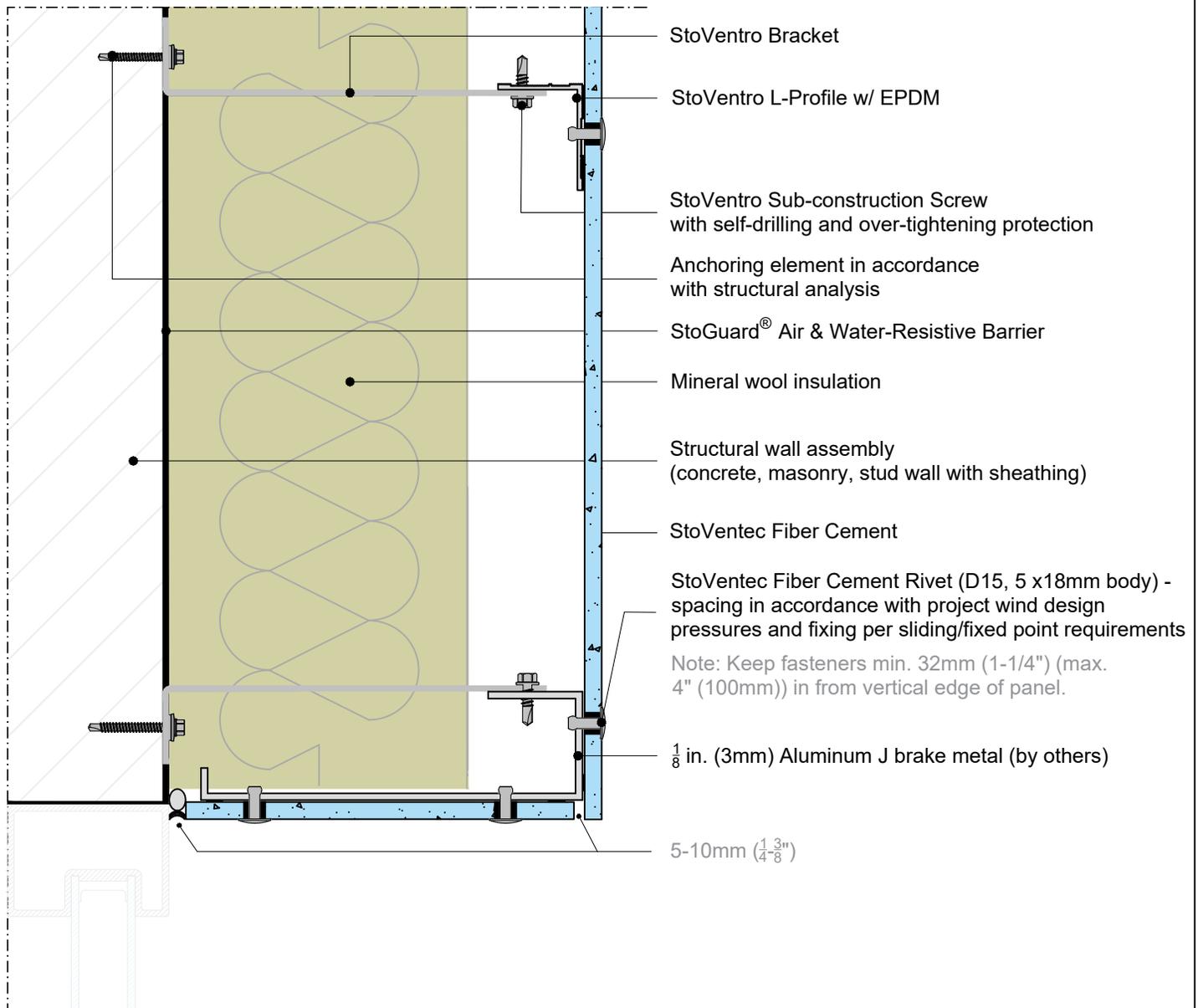
StoVentec® Fiber Cement StoVentro Sub-construction

Window Jamb - Deep F.C. Return >6 inches (152mm) with Brake Metal

Plan View

Date: November 2024

Detail No.: 90.Fc.088



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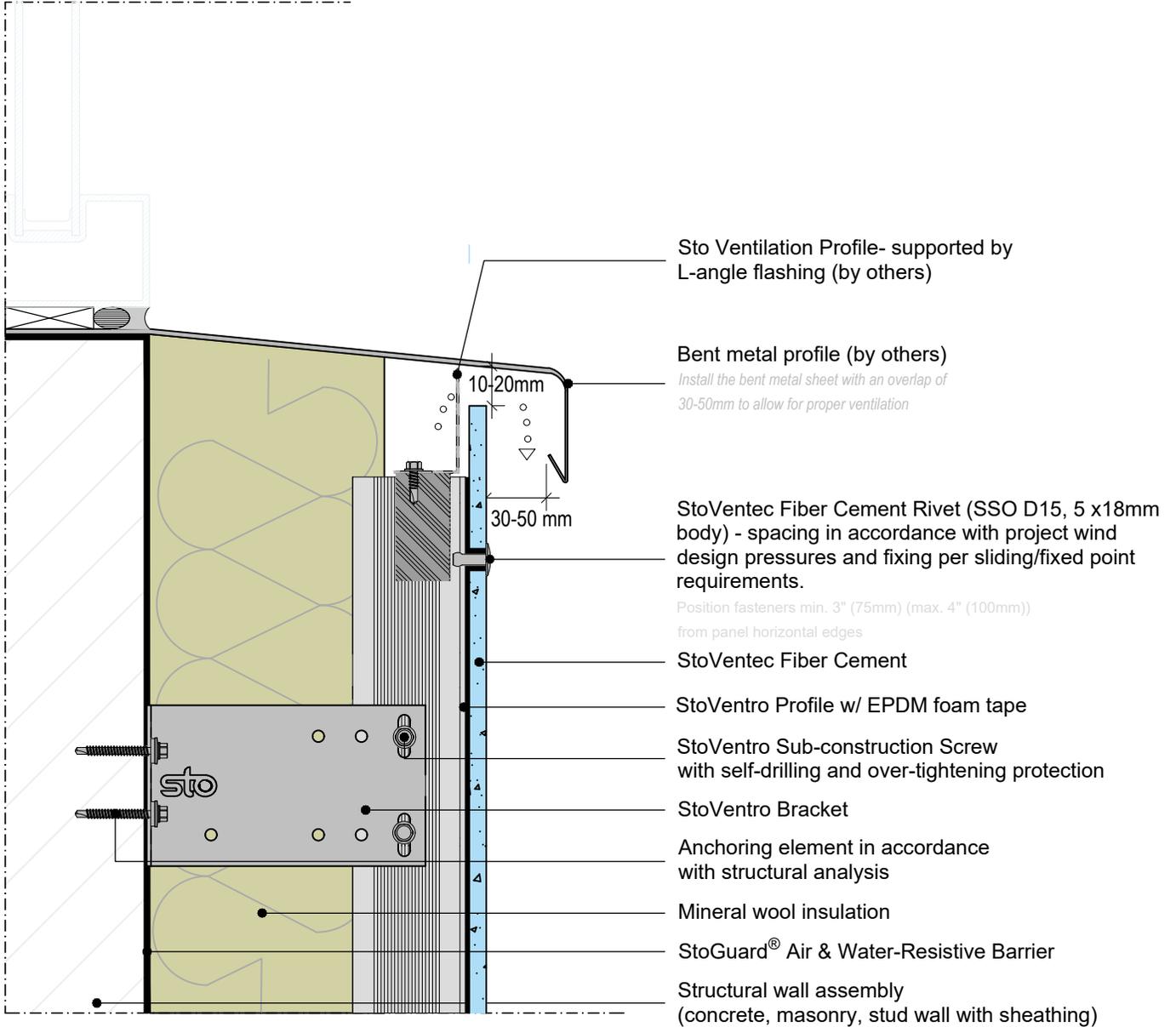
StoVentec® Fiber Cement

StoVentro Sub-construction

Window Sill with Sto Ventilation Profile
Section View

Date: November 2024

Detail No.: 90.Fc.090



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StoVentec Fiber Cement

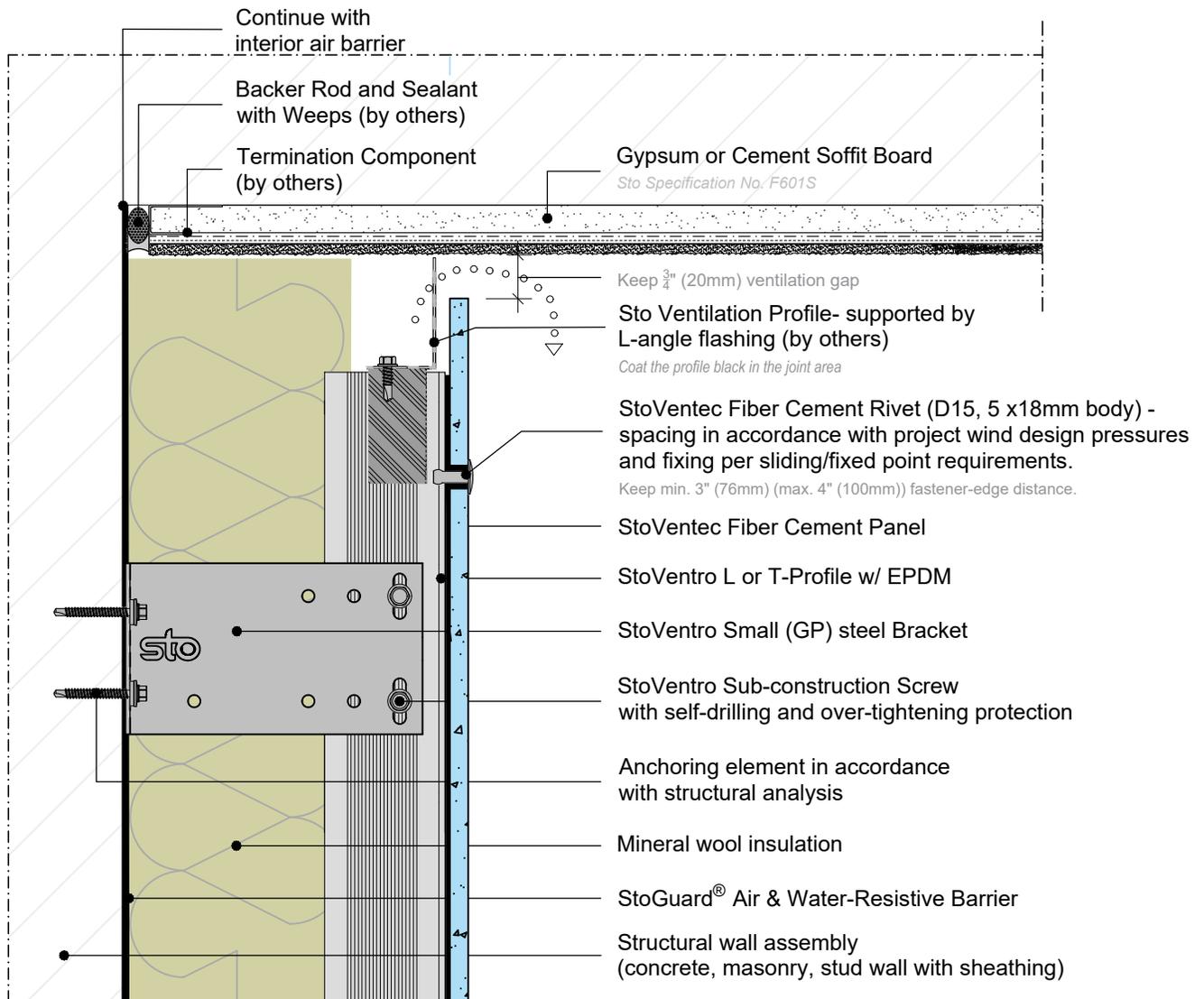
Termination under Soffit or Ceiling Installation - Not Insulated (Unconditioned)
StoVentro and Sto Direct-applied Finish System for Soffits and Ceilings

Section View

Date: November 2024

Detail No.: 90.Fc.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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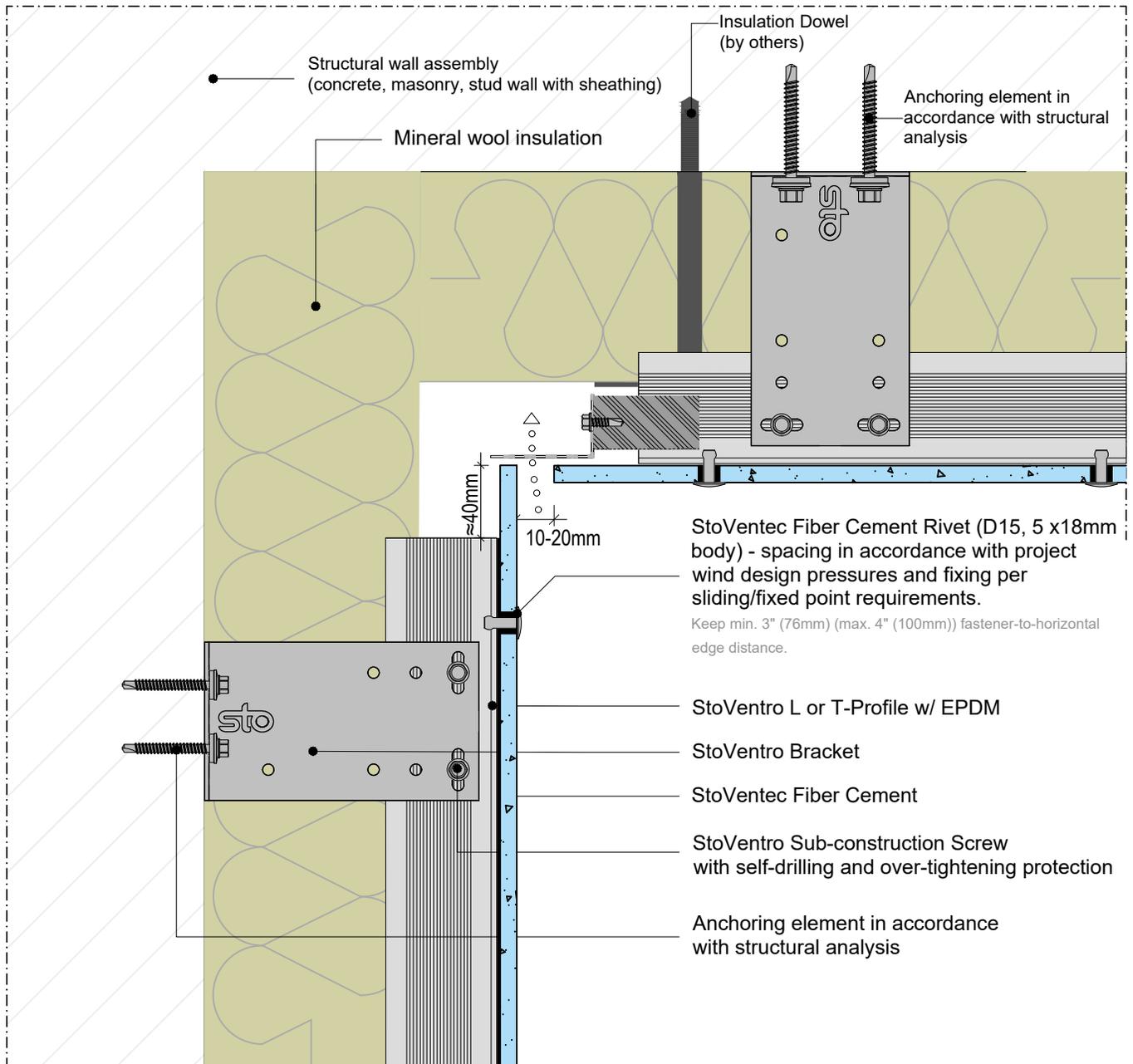
StoVentec® Fiber Cement

StoVentro Sub-Construction with Sto Ventilation Profile
Vertical wall to Soffit or Ceiling Installation - Insulated (Conditioned)

Section View

Date: November 2024

Detail No.: 90.Fc.162

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StoVentec™ Fiber Cement

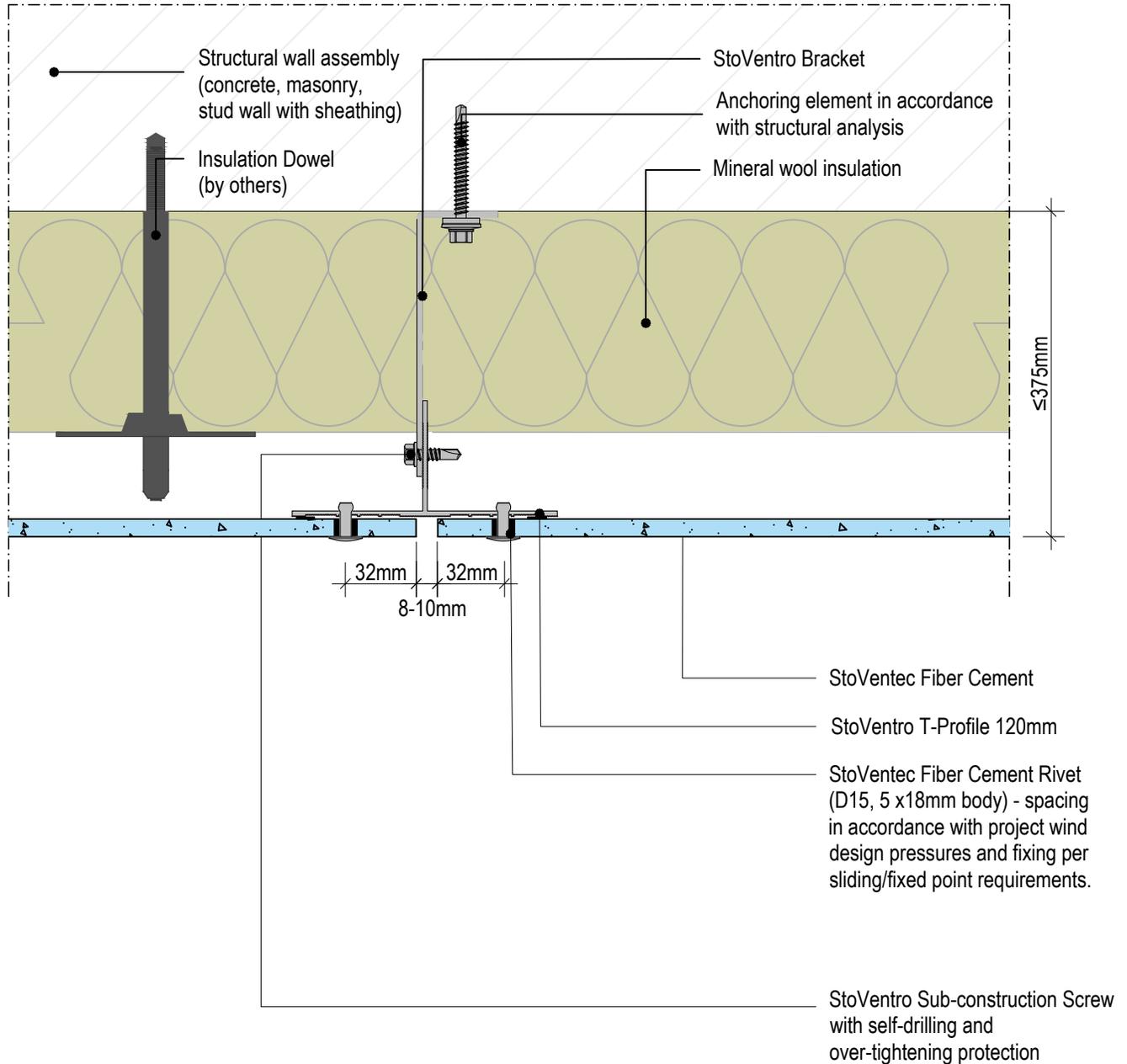
Soffit or Ceiling Installation - Insulated (Conditioned) - Panel Joint

Date: November 2024

Section View

Detail No.: 90.Fc.165

Note: This detail assumes the soffit panel long dimension runs parallel to the vertical wall. Keep typical minimum fastener-panel edge distances. Refer to the Fiber Cement Design Guide or Installation Guide.



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StoVentec® Fiber Cement

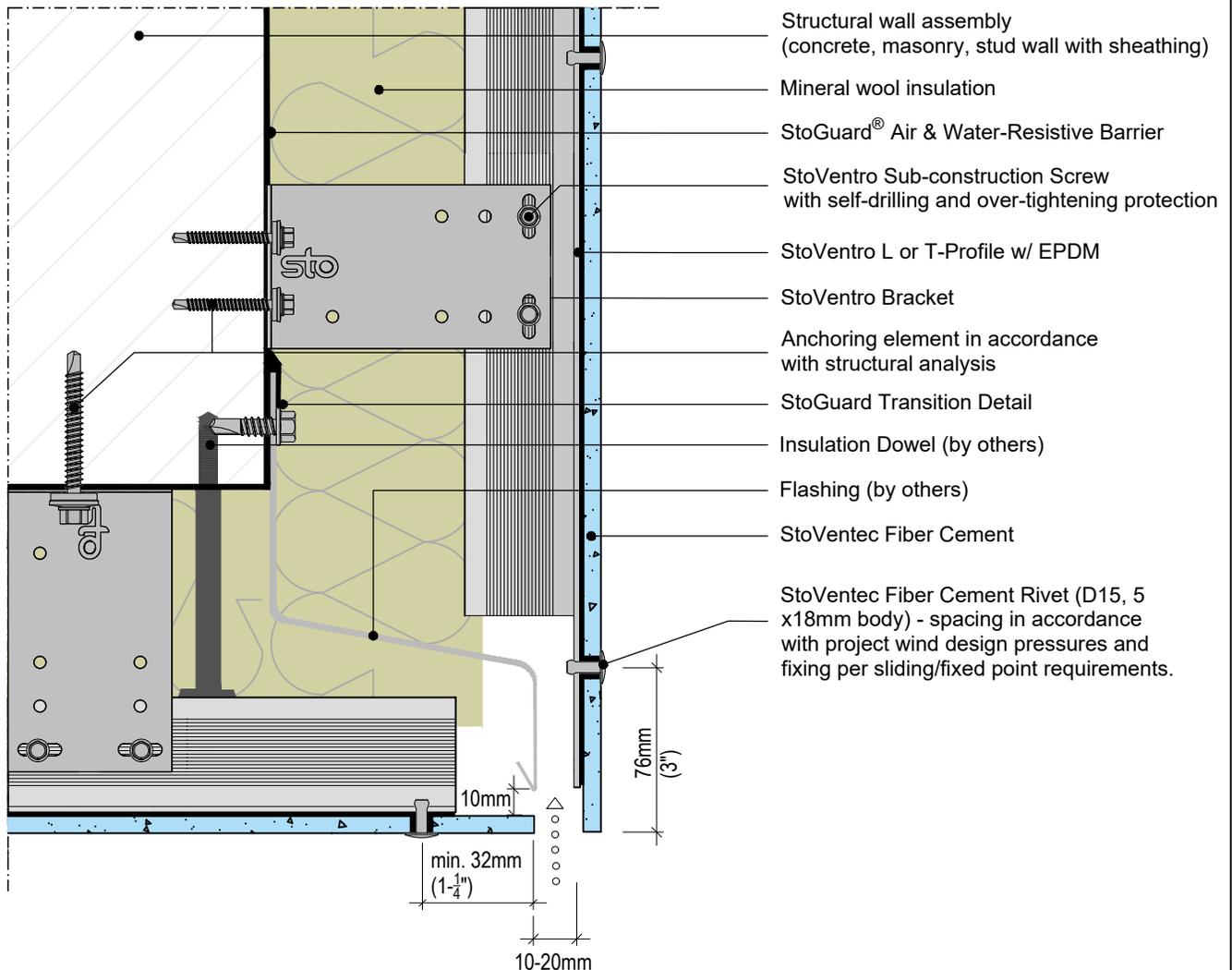
Soffit or Ceiling transition to Vertical Wall Installation - Insulated (Conditioned)

Date: November 2024

Section View

Detail No.: 90.Fc.170

Note: This detail assumes the soffit panel long dimension runs parallel to the vertical wall. Keep typical minimum fastener-panel edge distances. Refer to the Fiber Cement Design Guide or Installation Guide.



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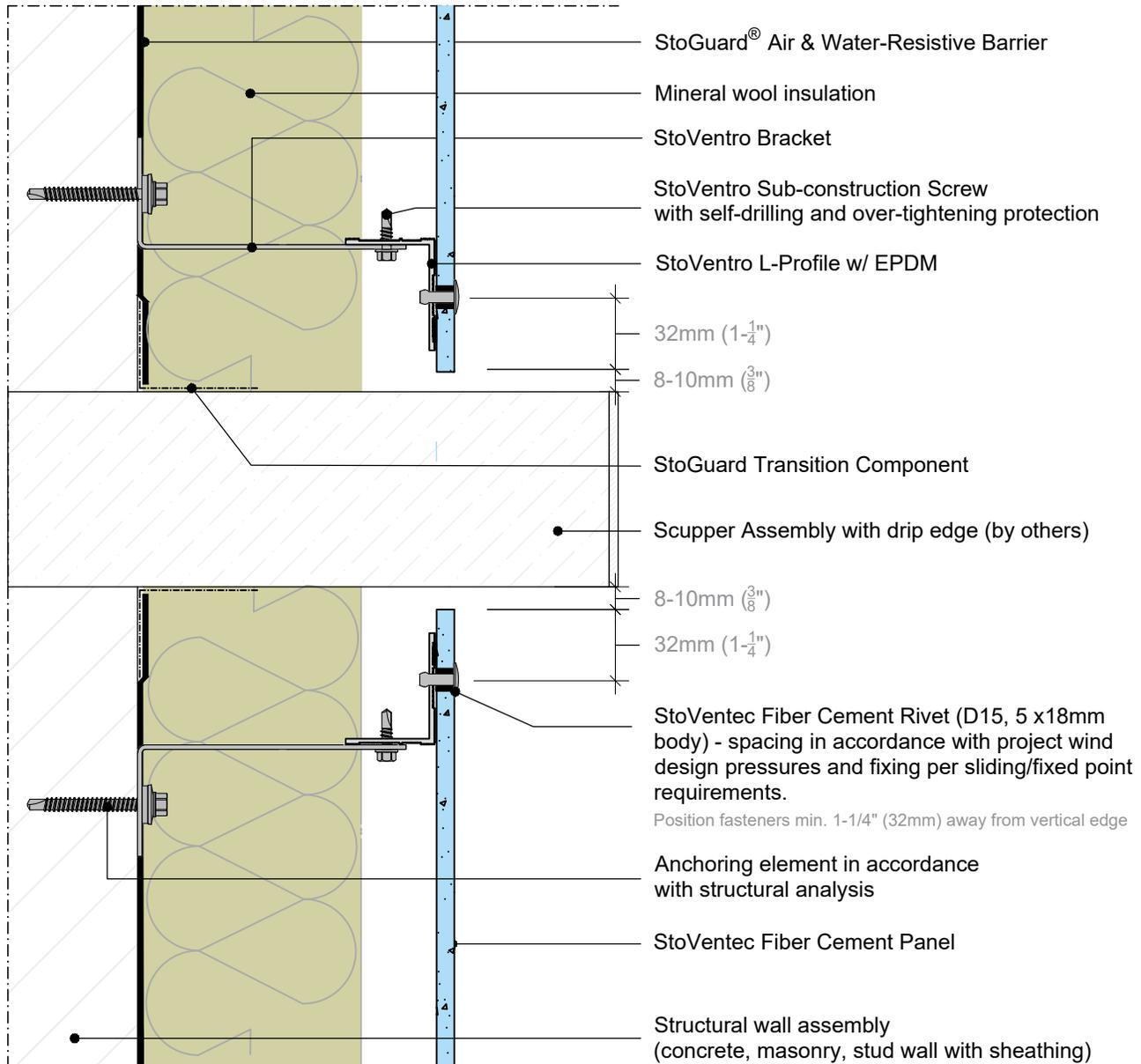
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StoVentec Fiber CementStoVentro™ Sub-Construction System
Scupper Penetration with open joints

Plan View

Date: November 2024

Detail No.: 90.Fc.300

**ATTENTION**

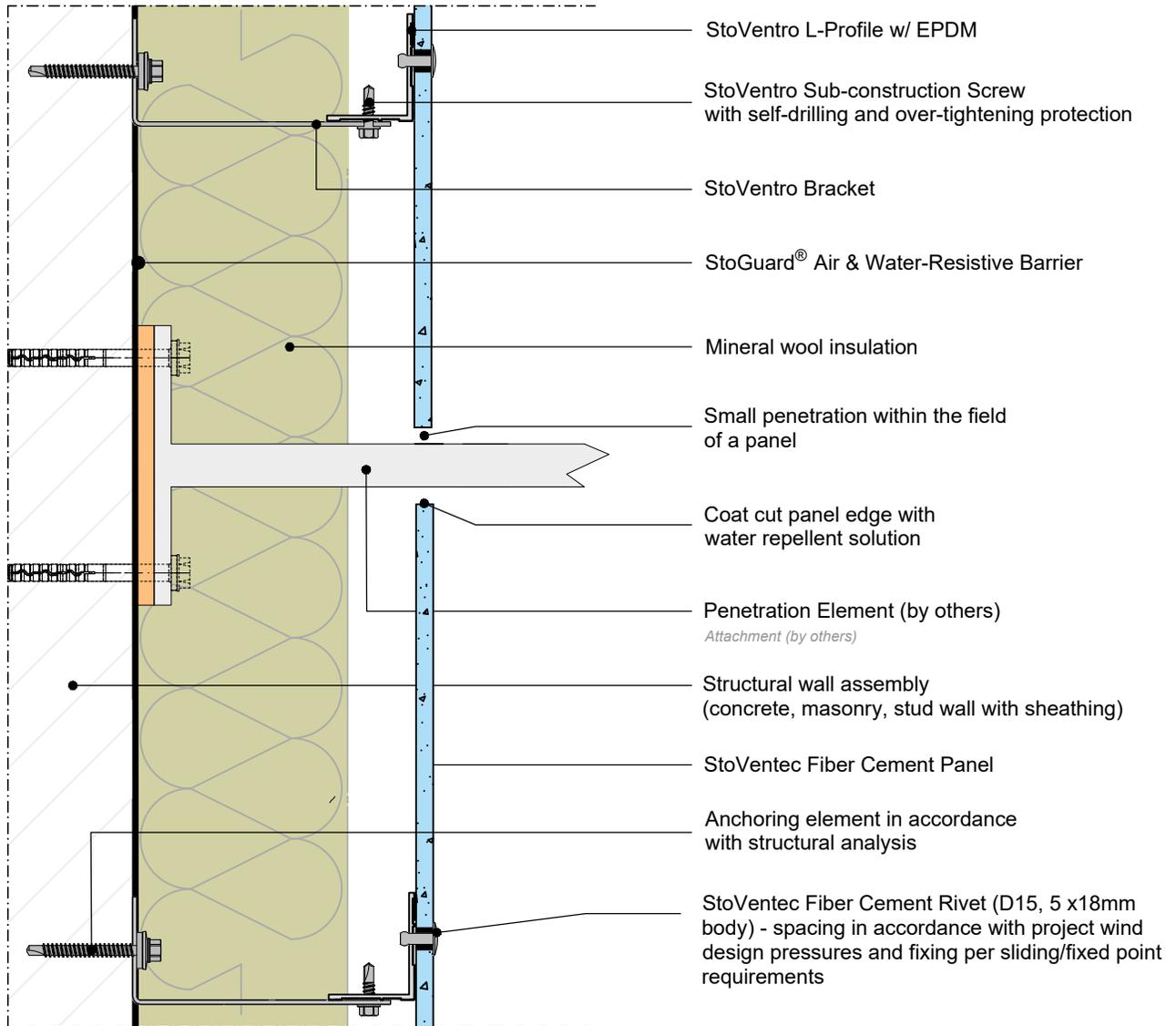
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StoVentec Fiber Cement
 StoVentro™ Sub-Construction System
 Small Penetration - within the field of a panel
 Plan View

Date: November 2024

Detail No.: 90.Fc.330



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StoVentec Fiber Cement

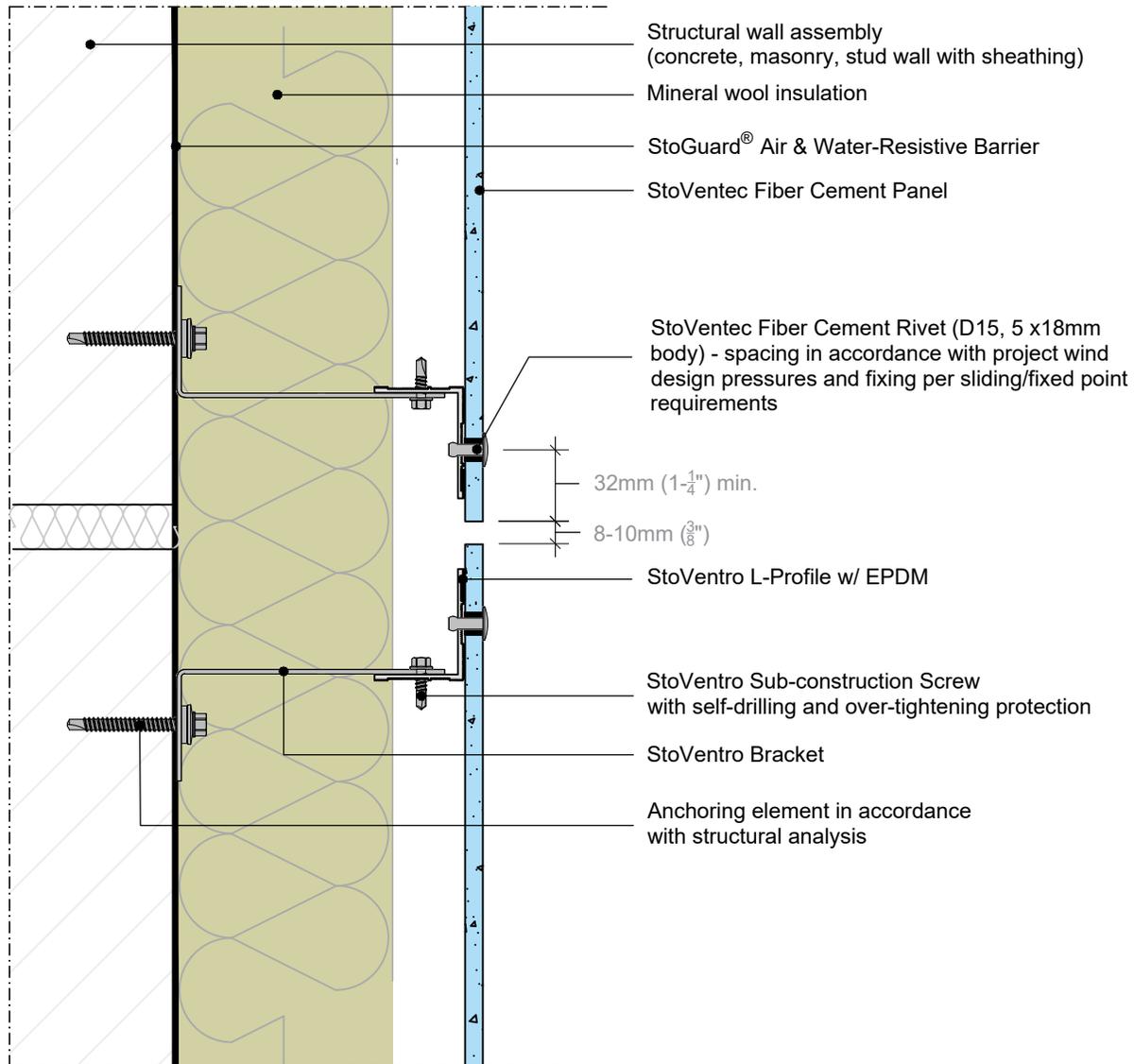
StoVentro™ Sub-Construction System

Back-up wall Structural Joint with Fiber Cement Joint

Plan View

Date: November 2024

Detail No.: 90.Fc.390

**ATTENTION**

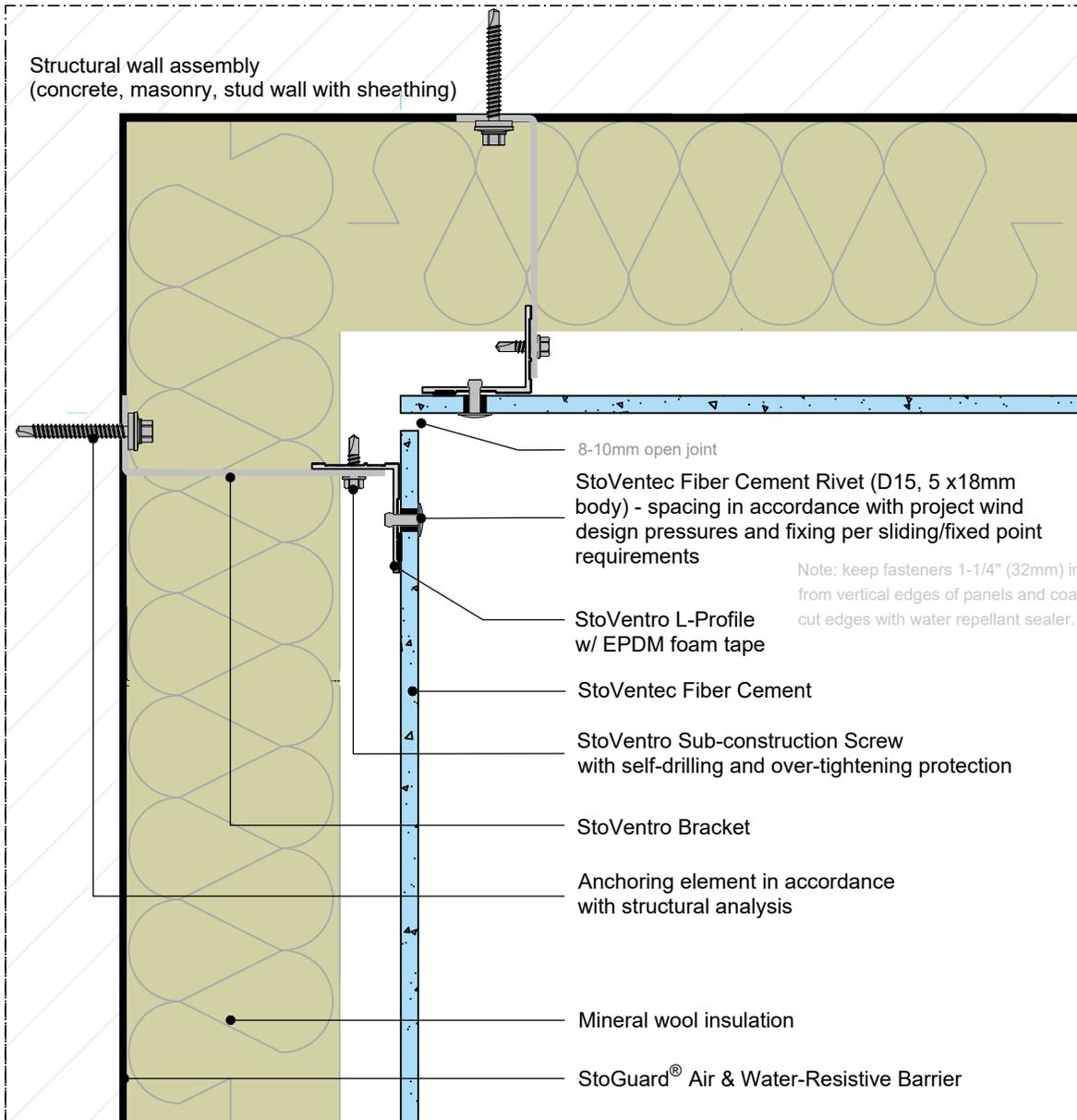
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StoVentec Fiber Cement
StoVentro™ Sub-Construction System
 Inside Corner - Open Joint
 Plan View

Date: November 2024

Detail No.: 90.Fc.400



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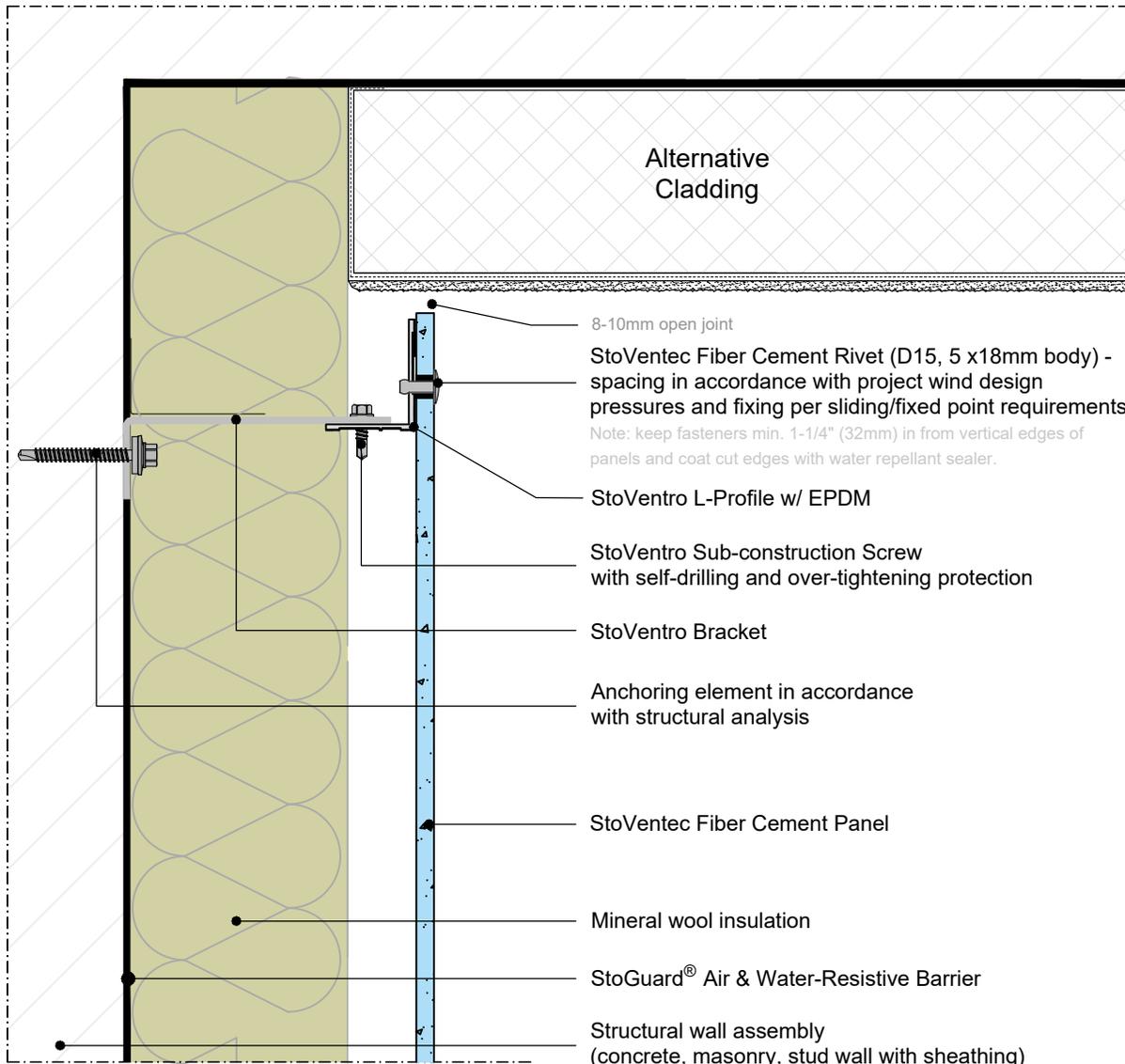
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StoVentec Fiber Cement
 StoVentro™ Sub-Construction System
 Installation at Inside Corner to alternative facade
 Plan View

Date: November 2024

Detail No.: 90.Fc.409



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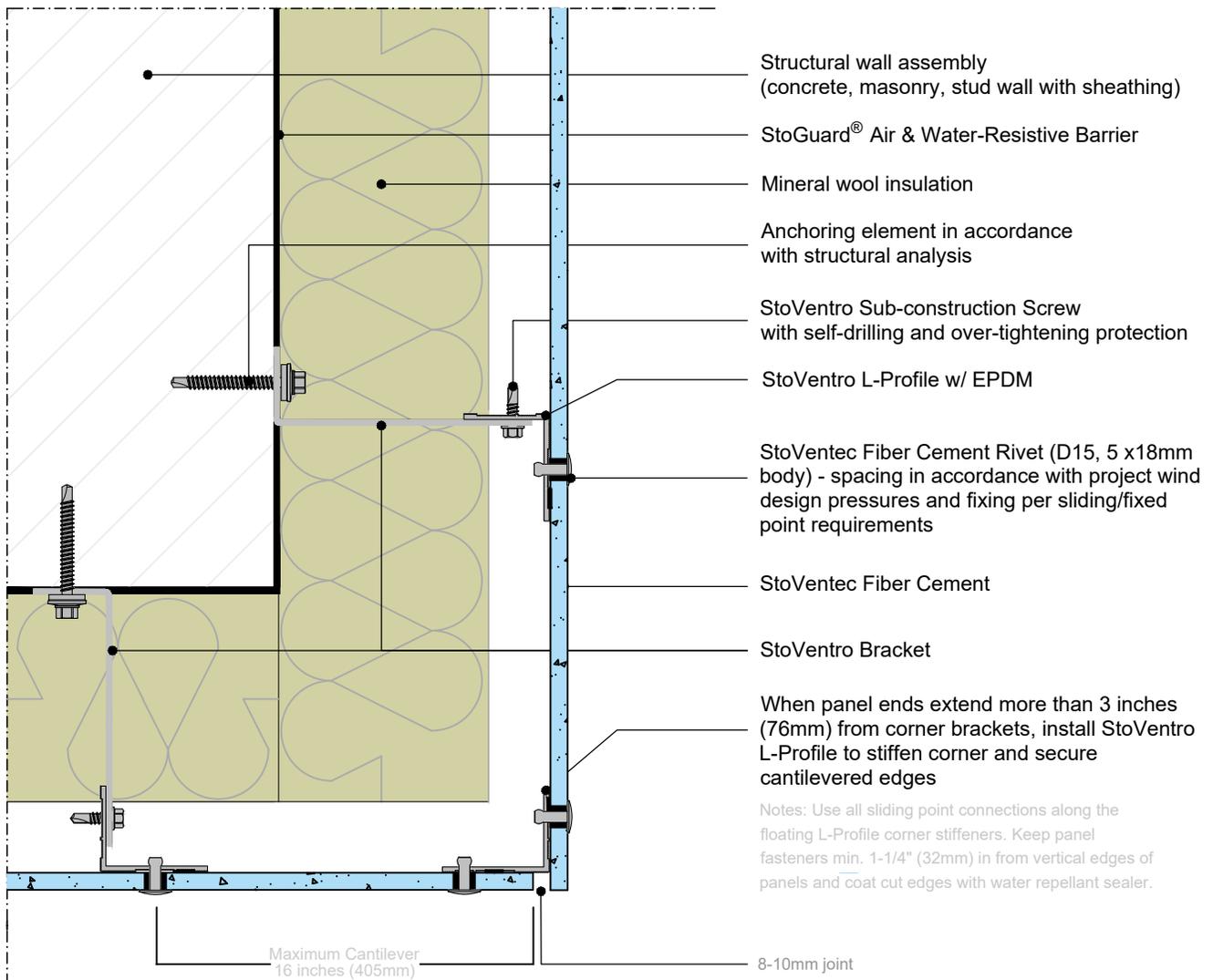
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StoVentec Fiber Cement
 StoVentro™ Sub-Construction System
 Outside Corner
 Plan View

Date: November 2024

Detail No.: 90.Fc.410



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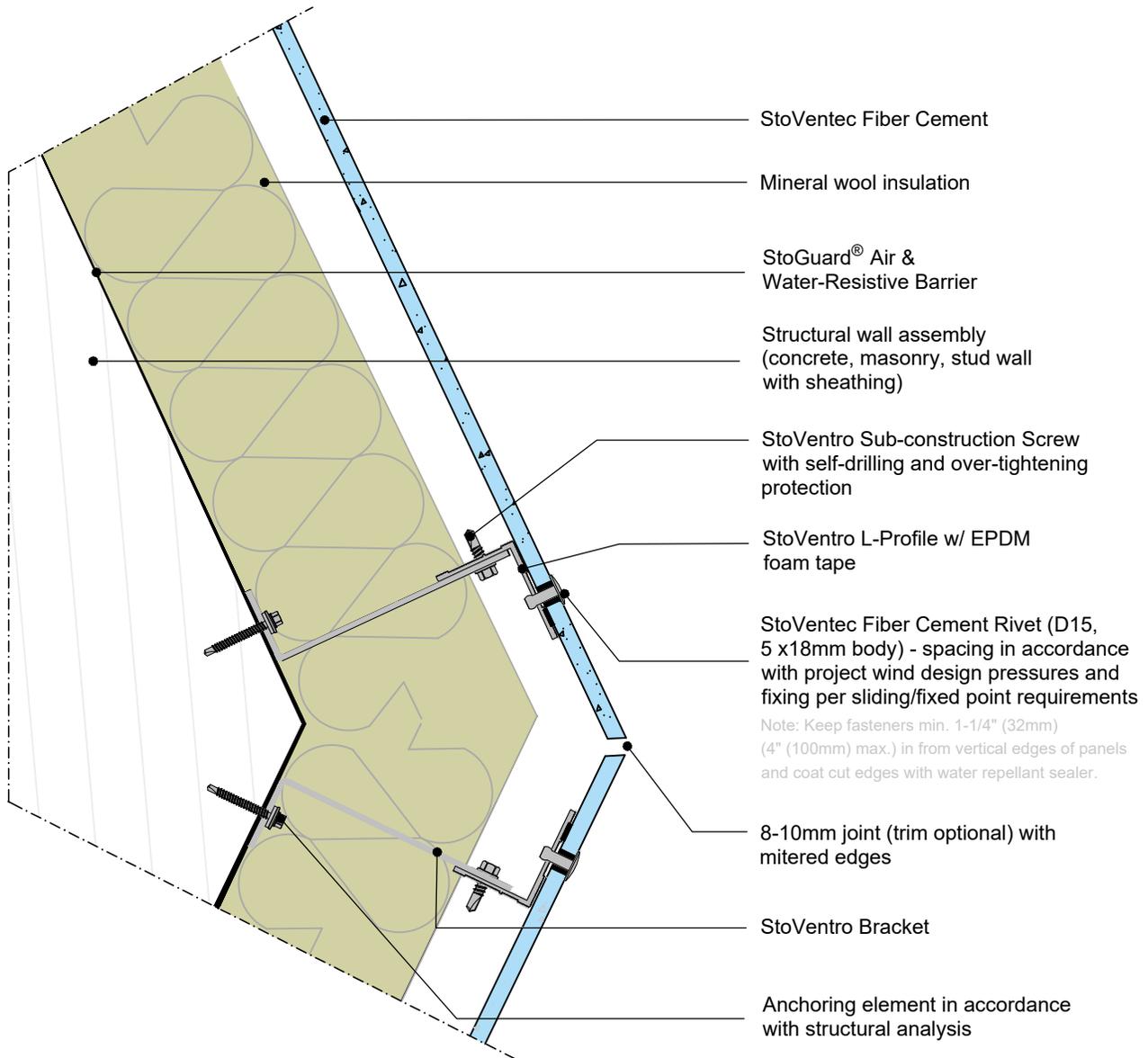
StoVentec Fiber Cement

StoVentro™ Sub-Construction System
Segmented Radius/Non-90-Degree Outside Corner

Plan View

Date: November 2024

Detail No.: 90.Fc.412



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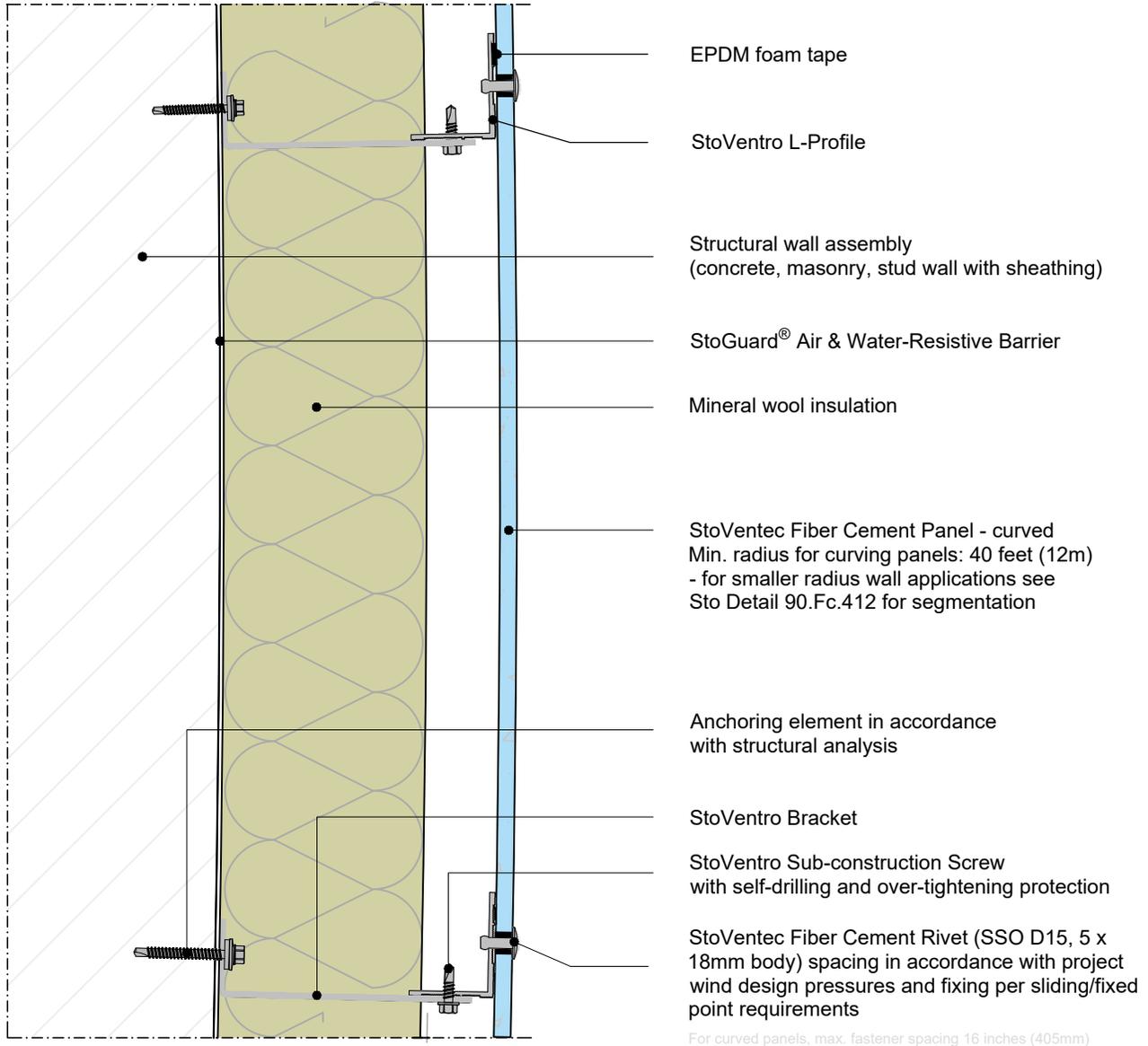
StoVentec Fiber Cement Panel Installation

StoVentro™ Sub-Construction System
 Curved Facade - Radius of 40 feet (12m) or greater

Plan View

Date: December 2024

Detail No.: 90.Fc.415



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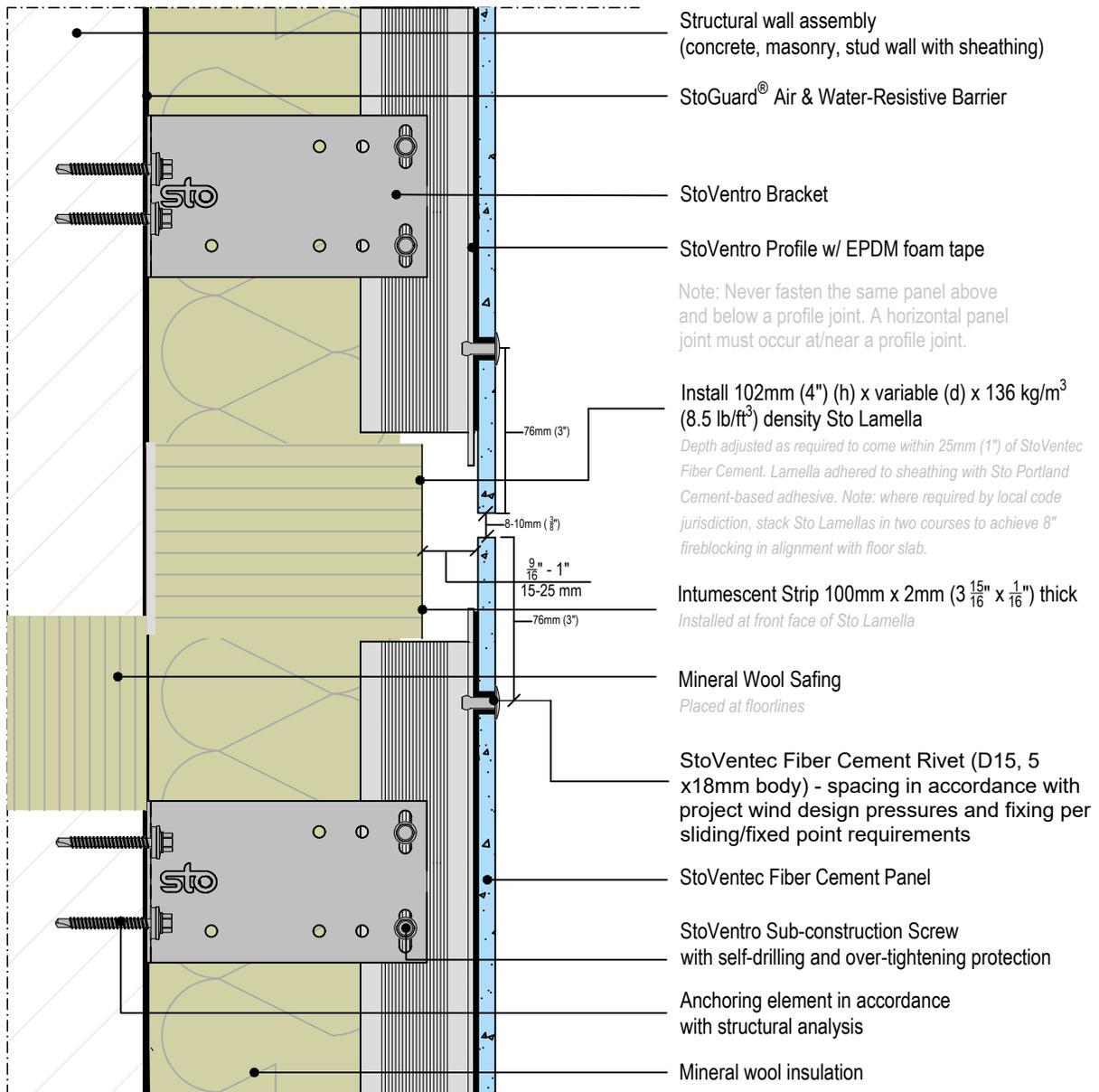
StoVentec™ Fiber Cement

StoVentro Sub-construction

Fire Protection at Floor Line - Horizontal Joint with Sto Lamella
Section View

Date: November 2024

Detail No.: 90.Fc.550



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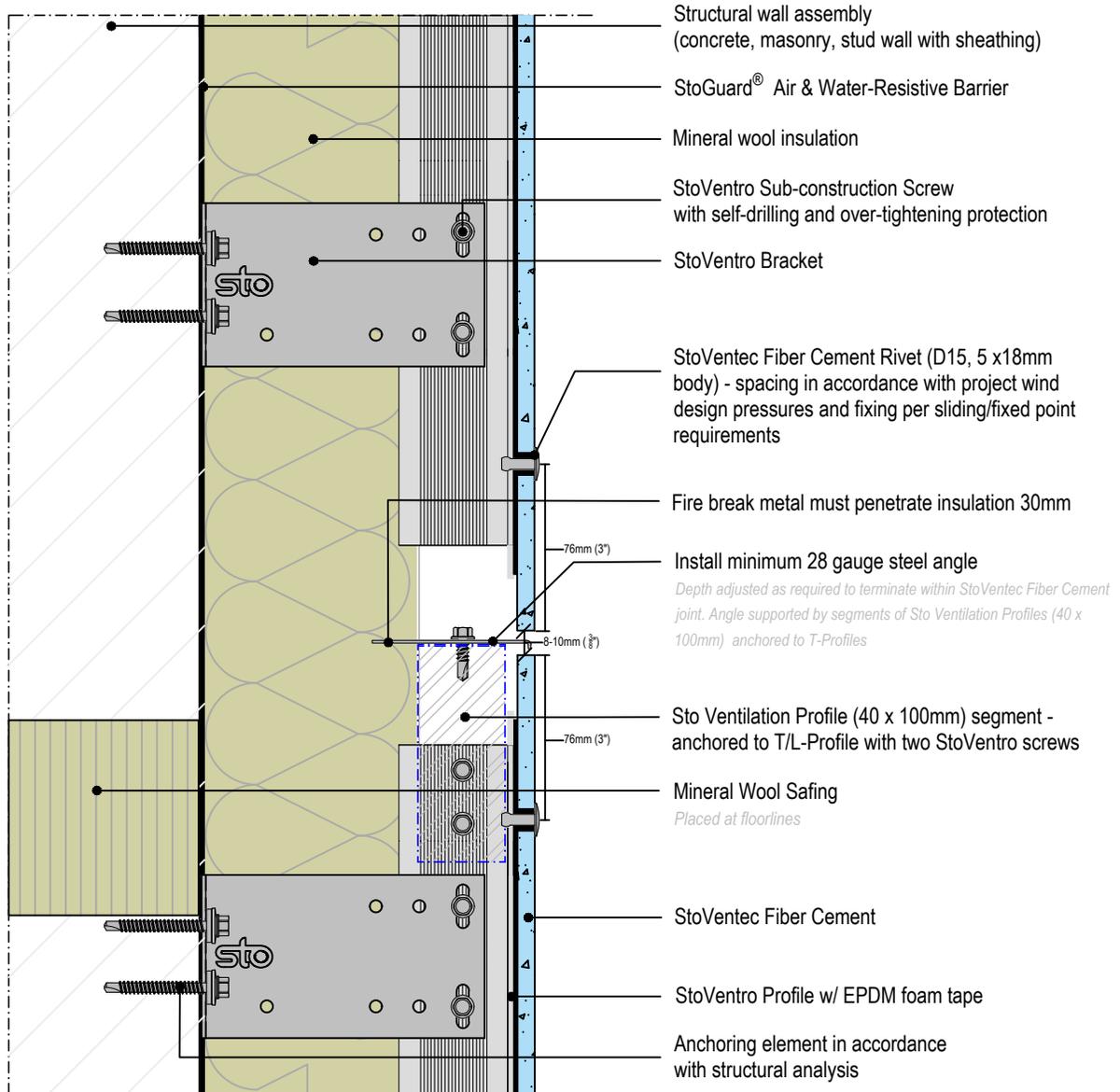
StoVentec™ Fiber Cement

Fire Protection at Floor Lines with Metal Fire Break w/ Ventilation Profiles

Date: November 2024

Section View

Detail No.: 90.Fc.555



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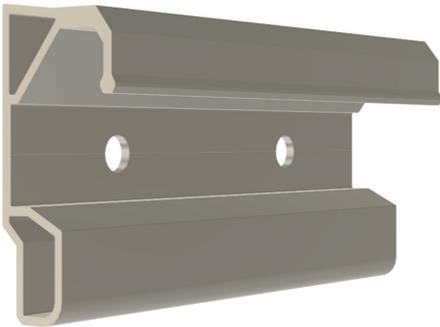
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StoVentec Fiber Cement

Concealed Fixing Detail Booklet
Series 90.Fc.xx.C | September 2025



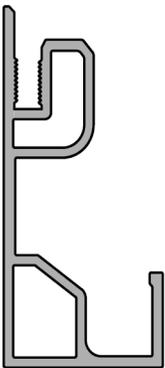
StoVentec Fiber Cement in 10mm thickness



StoVentro Carrier Profile Hanger



TUF-S 6x9 Concealed Anchor for Fiber Cement



StoVentro Agraffe Profile

StoVentec® Fiber Cement

Hidden Fastening Example Layout - *Full System Engineering and Panel Fabrication Required*
 StoVentec F.C. (10mm x 4 x 8 feet) Hidden Attachment (16 inch max. fastener spacing) to
 StoVentro™ Carrier Profile Hangers and Agraffes (22-1/2" apart vertically)
 Elevation View

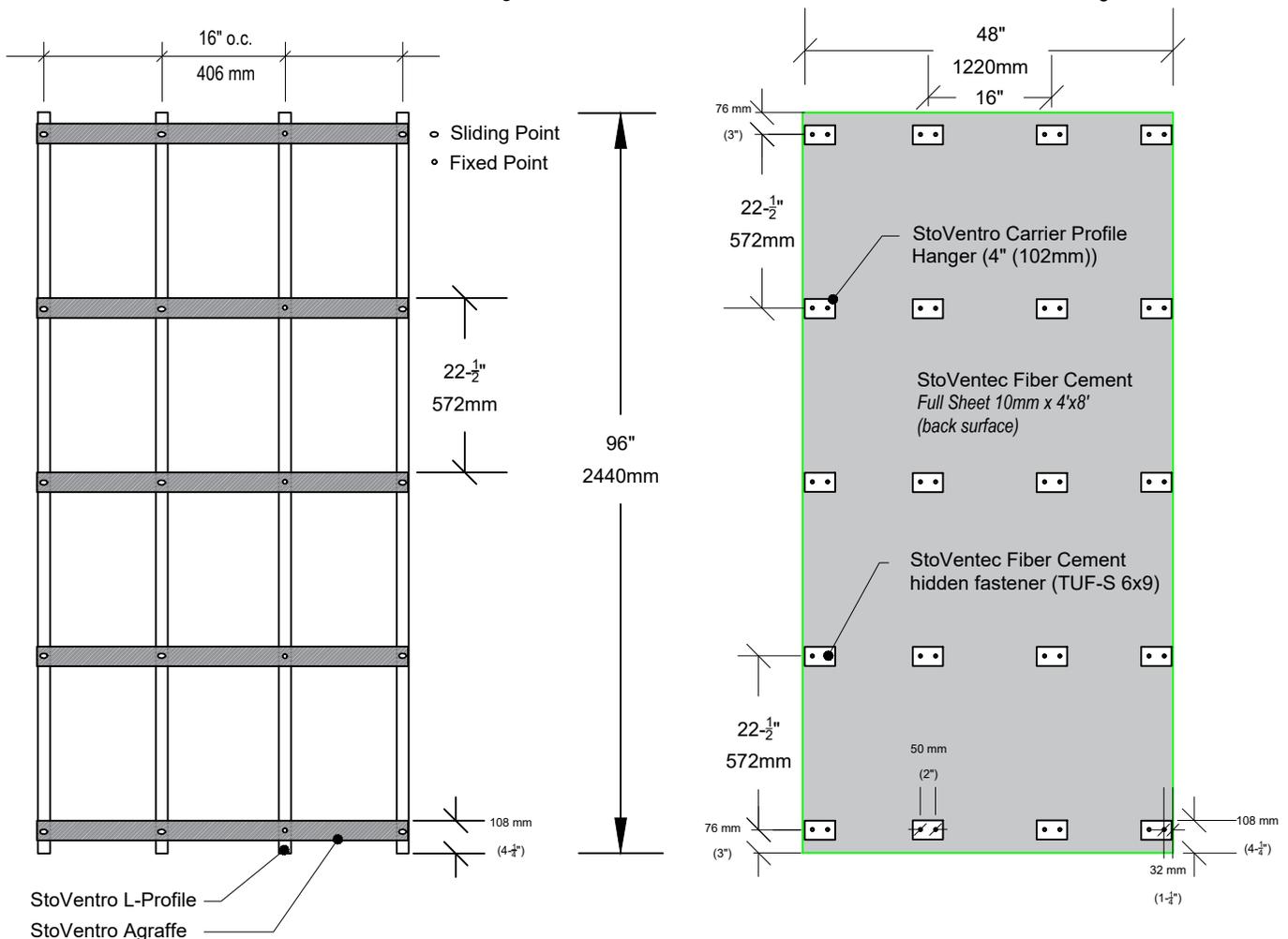
Date: August 2024

Detail No.: 90.Fc.010

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing: -140 psf (6.7 kN/m²)

Layout Notes:

- 10mm thick StoVentec Fiber Cement panels required for hidden fastening installation.
- Horizontal and vertical joints between Ventro profiles - leave 10-15mm gap between metal ends.
- StoVentro Agraffe Rails must be spaced to match Carrier Profile Hangers affixed to the back surface of StoVentec Fiber Cement panels with SFS TUF-S 6x9 fasteners.
- Joints between panels are spaced 8-10mm (~ $\frac{3}{8}$ ").
- Refer to the *StoVentec Fiber Cement Design Guide* or full *Install Guide* for more information on hidden fastening.



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Building with conscience.

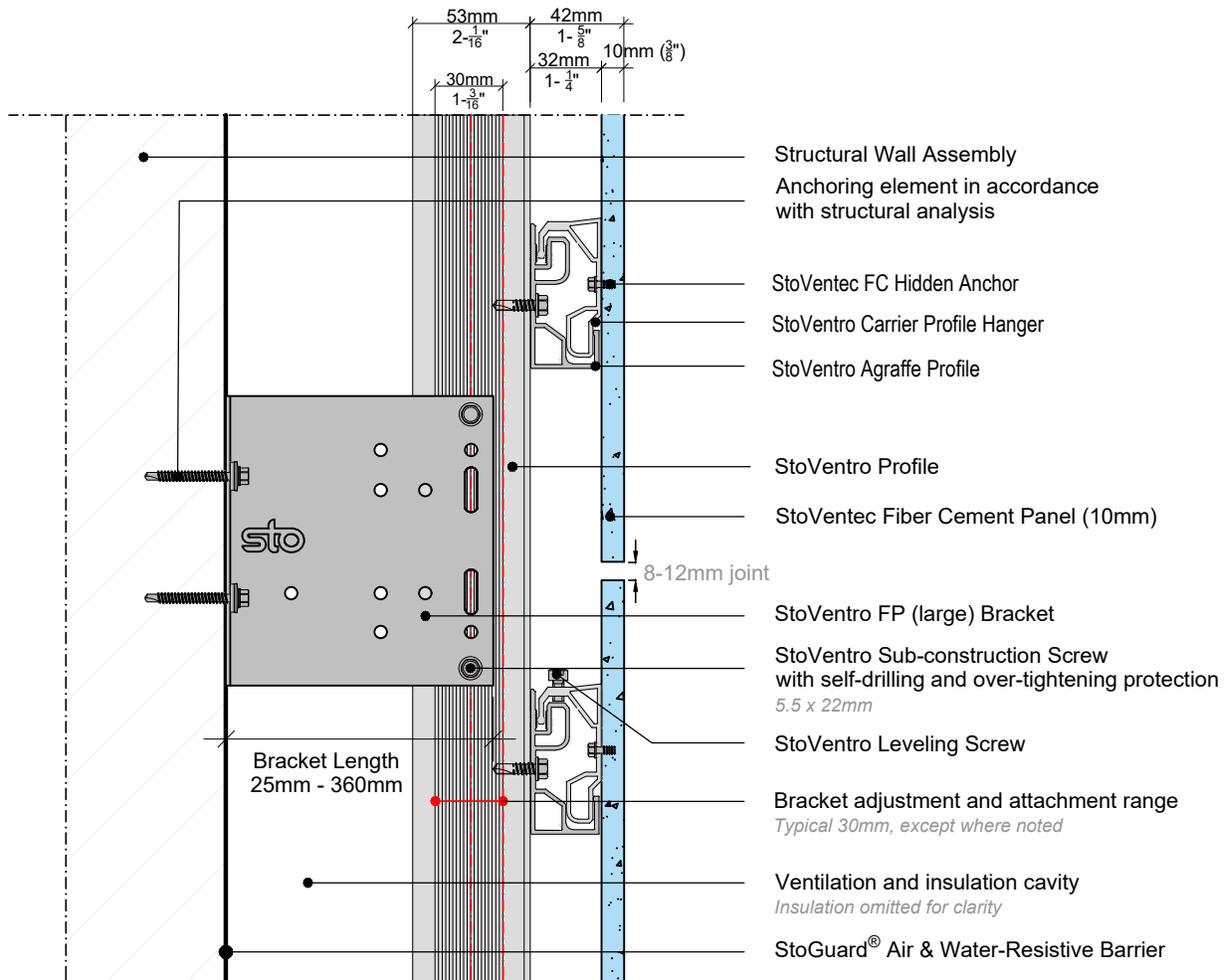
StoVentec Fiber Cement

Concealed Anchor System buildup with StoVentro Sub-construction

Date: August 2025

Section View

Detail No.: 90.Fc.20C



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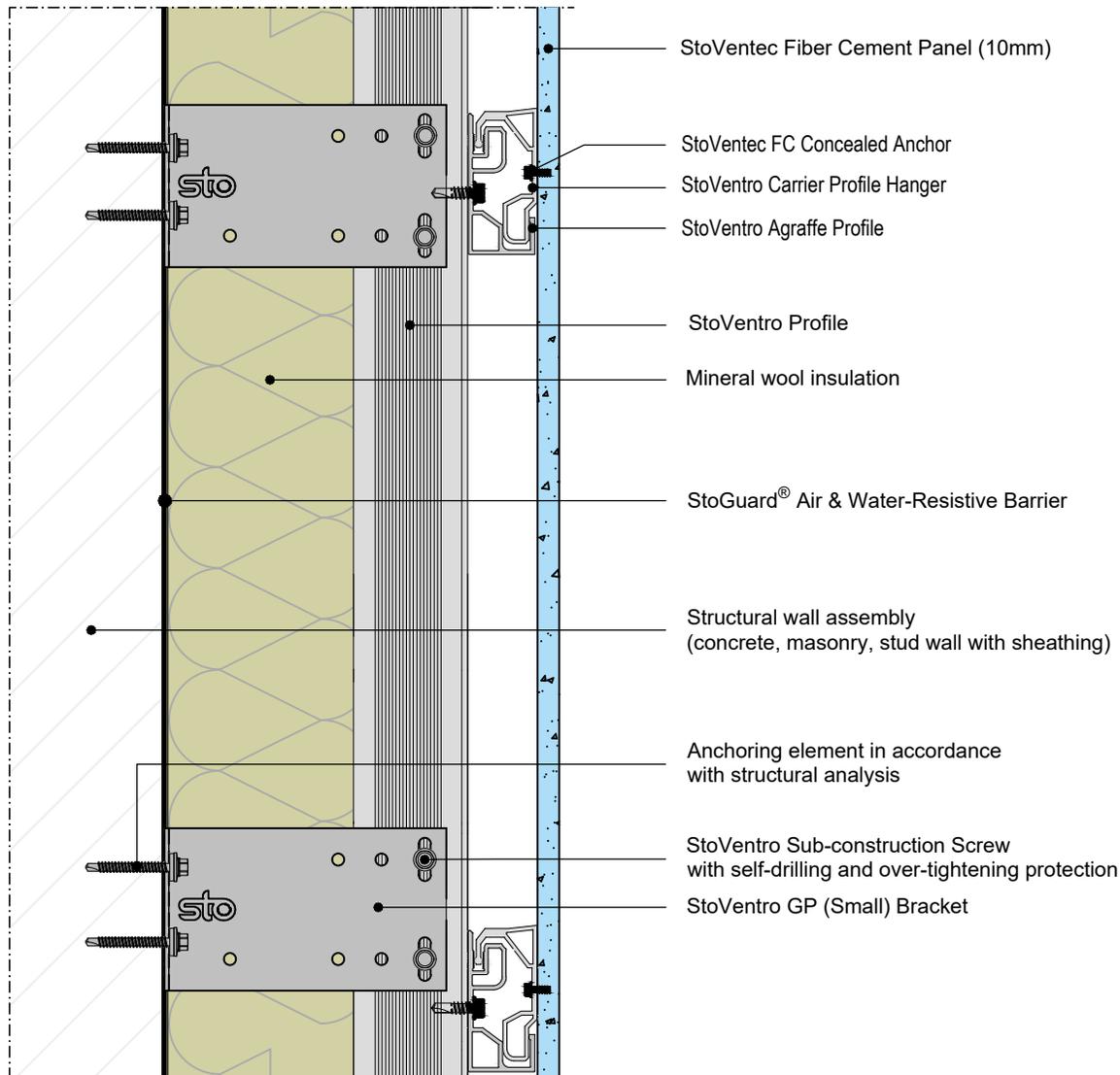
StoVentec Fiber Cement panel installation

StoVentro™ Sub-Construction System build up - Concealed F.C. fixing

Date: August 2025

Section View

Detail No.: 90.Fc.022C

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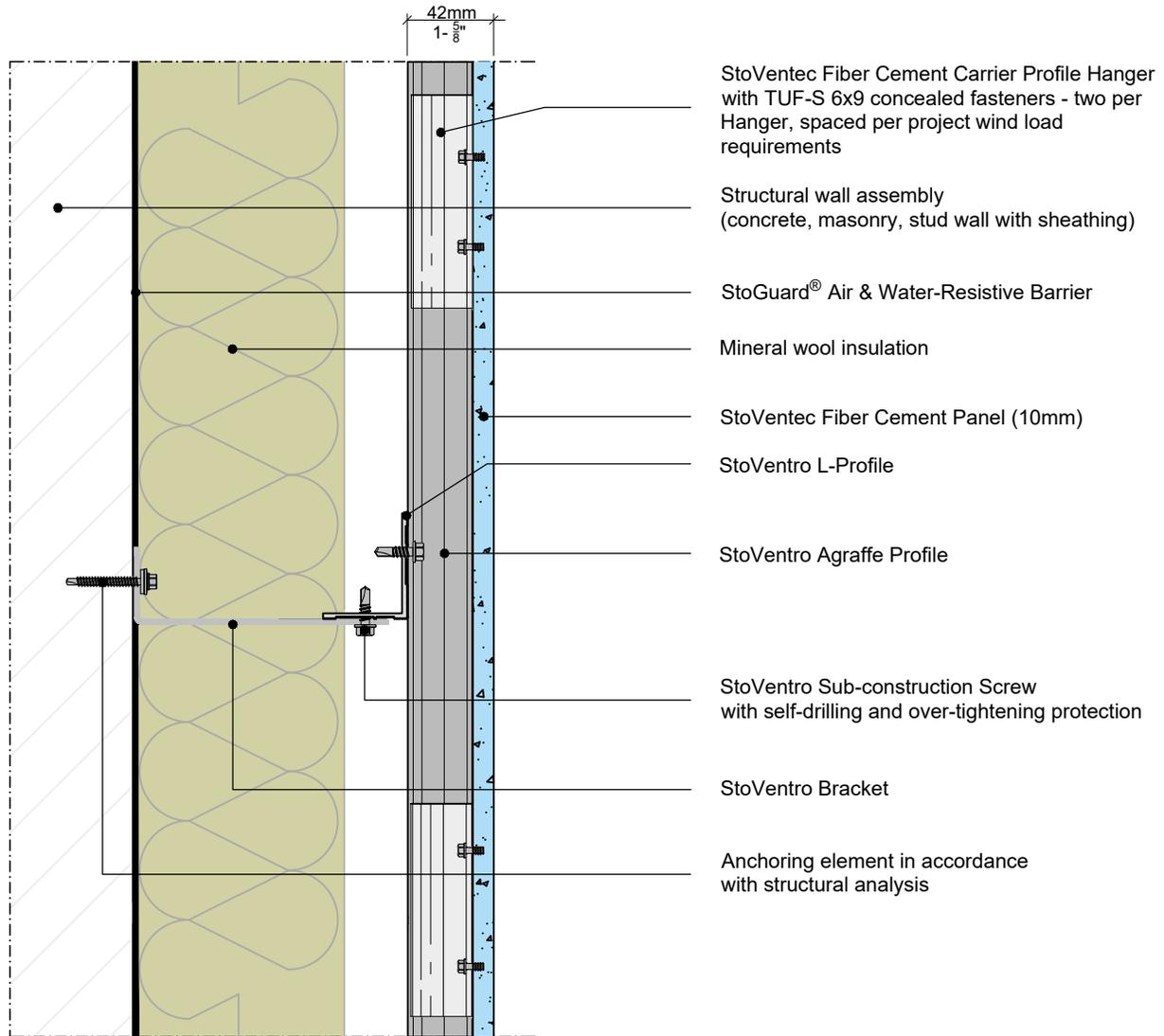
StoVentec Fiber Cement Panel Installation

Concealed Fixing

StoVentro™ Sub-Construction System - L-Profile in Panel Field
Plan View

Date: August 2025

Detail No.: 90.Fc.031C



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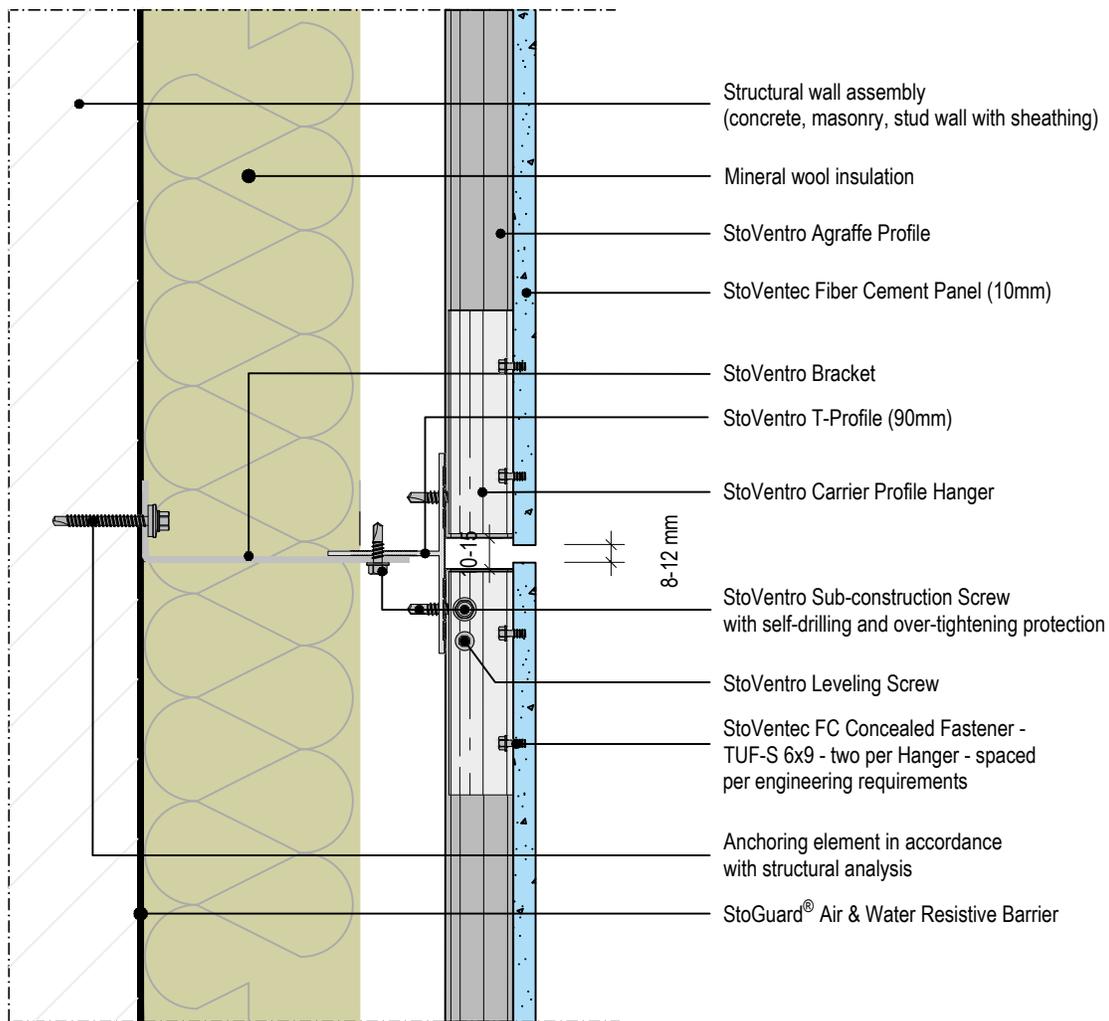
StoVentec™ Fiber Cement

Concealed Fixing Panel Installation - Vertical Panel joint
at StoVentro™ T-Profile

Plan View

Date: August 2025

Detail No.: 90.Fc.032C



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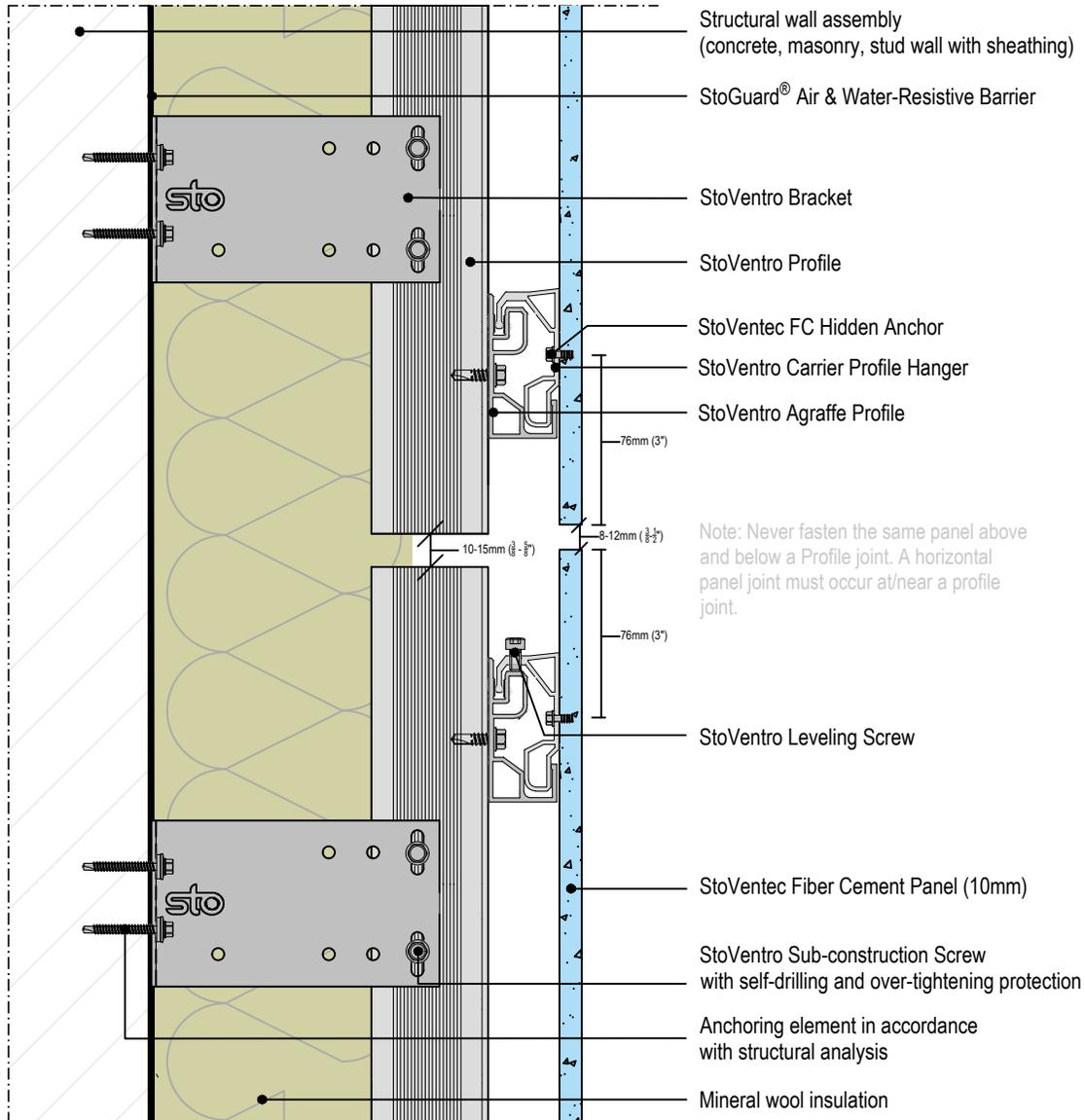
StoVentec™ Fiber Cement

StoVentro Sub-construction

Horizontal Joint at Vertical Profile Joint - Concealed F.C. Fixing
Section View

Date: August 2025

Detail No.: 90.Fc.035C



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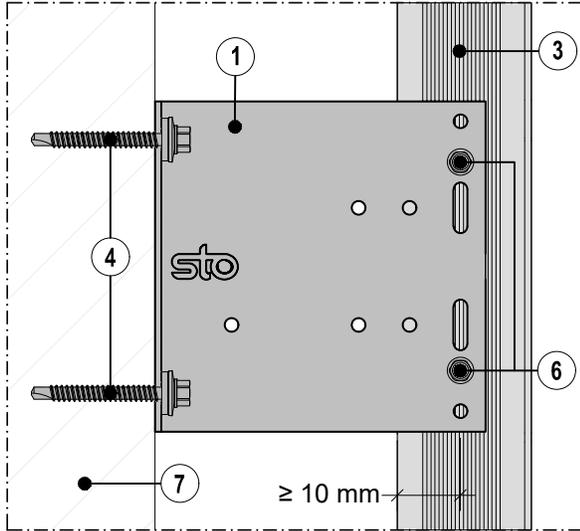
StoVentro™ Sub-Construction System

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

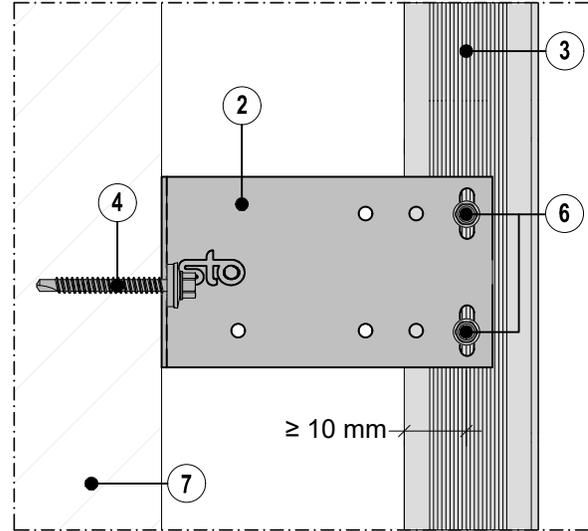
Section View

Date: January 2024

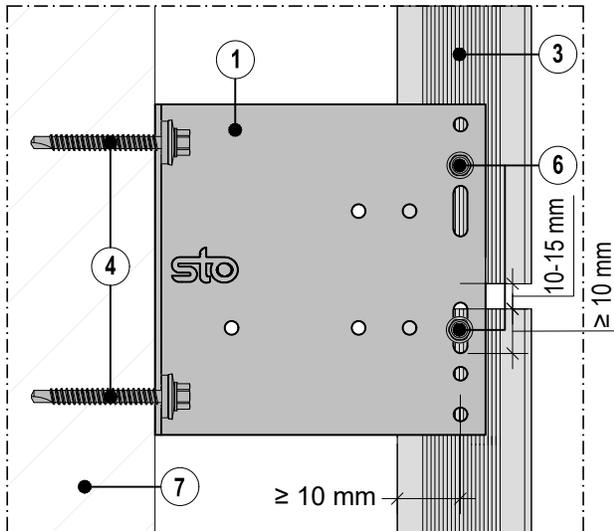
Detail No.: 90.Sc.045



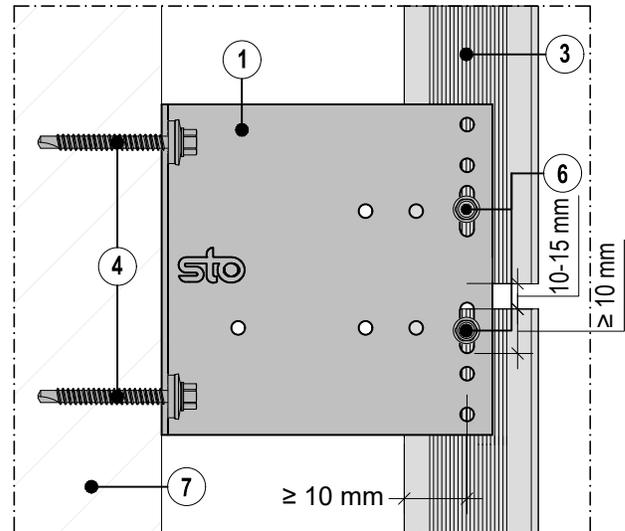
StoVentro™ Bracket - Large (FP) | Fixed point fastening



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



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



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

① StoVentro™ Steel Bracket Large (FP)

③ StoVentro™ T-Profile

② StoVentro™ Steel Bracket Small (GP)

④ 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 (concrete, masonry, stud wall with sheathing)

ATTENTION

Note: All values are subject to structural analysis.

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StoVentro™ Sub-Construction System

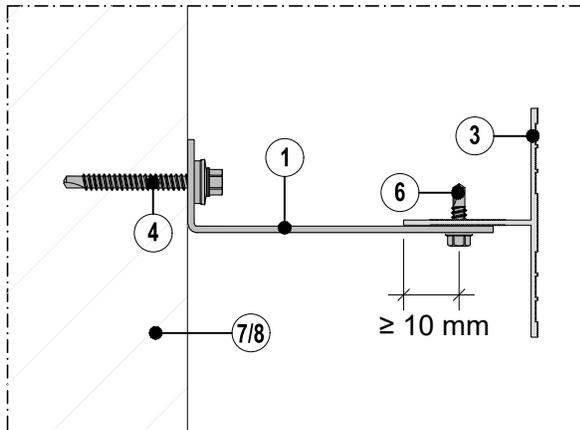
StoVentro™ Steel Brackets - Large (FP) and Small (GP) attachment locations

Elevation & Plan Views

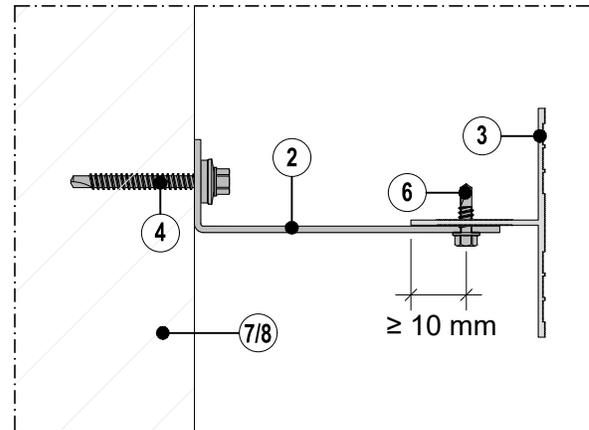
Date: January 2024

Detail No.: 90.Sc.046

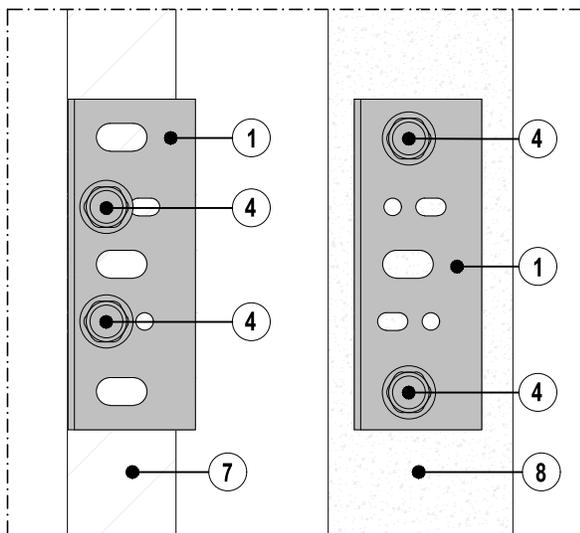
Note: All values are subject to structural analysis.



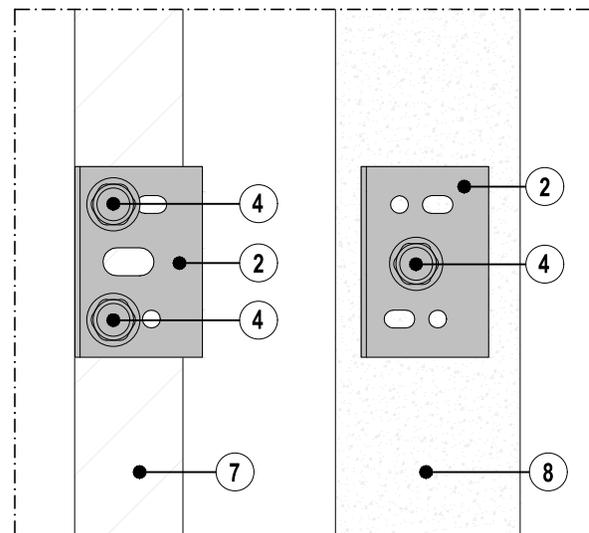
StoVentro™ Bracket - Large (FP)
Plan View Attachment



StoVentro™ Bracket - Small (GP)
Plan View Attachment



StoVentro™ Bracket - Large (FP)
Elevation View Attachment



StoVentro™ Bracket - Small (GP)
Elevation View Attachment

① StoVentro™ Steel Bracket Large (FP)

③ StoVentro™ T-Profile

⑥ StoVentro™ Sub-construction Screw with self-drilling and over-tightening protection (5.5 x 22 mm)

② StoVentro™ Steel Bracket Small (GP)

④ Anchoring element in accordance with structural analysis

⑦ Structural wall assembly (stud wall with sheathing)

⑧ Structural wall assembly (concrete and masonry)

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StoVentec™ Fiber Cement

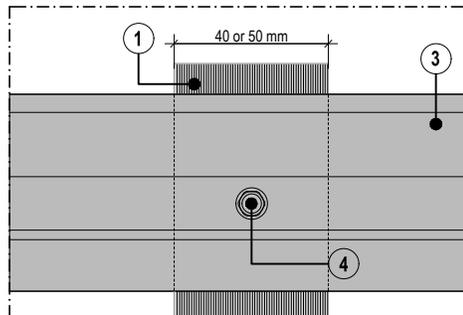
Concealed Fixing - StoVentro™ Agraffe Profile attachment locations

Fixed points and sliding points

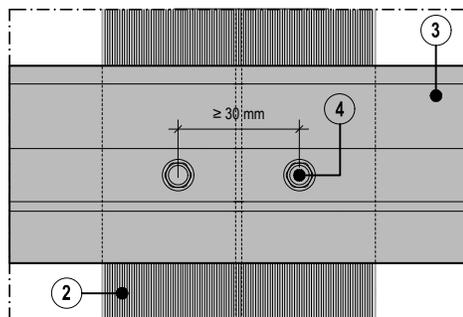
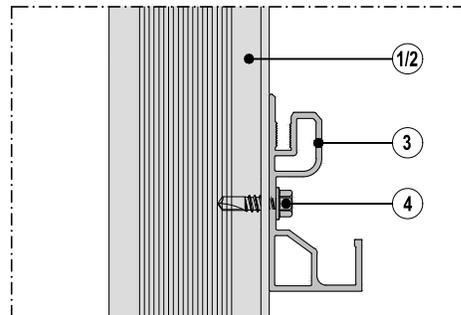
Elevation & Section Views

Date: August 2025

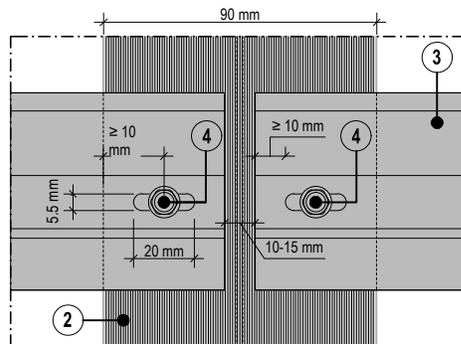
Detail No.: 90.Fc.046C



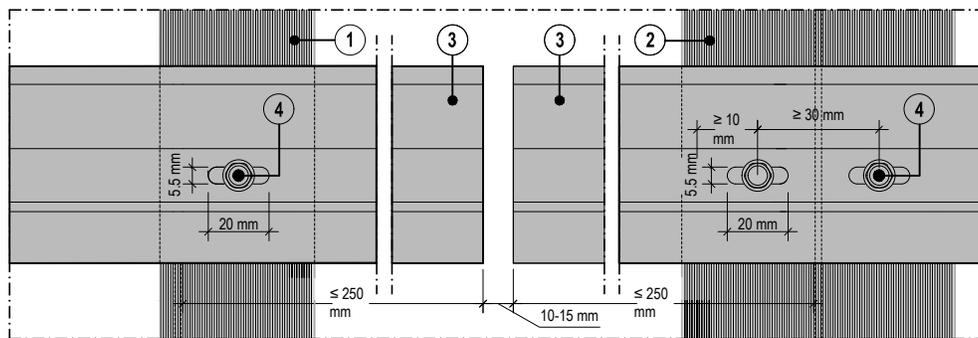
fixed point



fixed point



sliding point / sliding point



sliding point / sliding point

- | | |
|------------------------|--|
| ① StoVentro™ L-Profile | ③ StoVentro™ Agraffe Profile |
| ② StoVentro™ T-Profile | ④ StoVentro™ Sub-construction Screw
with self-drilling and over-tightening protection (5.5 x 22 mm) |

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StoVentec® Fiber Cement

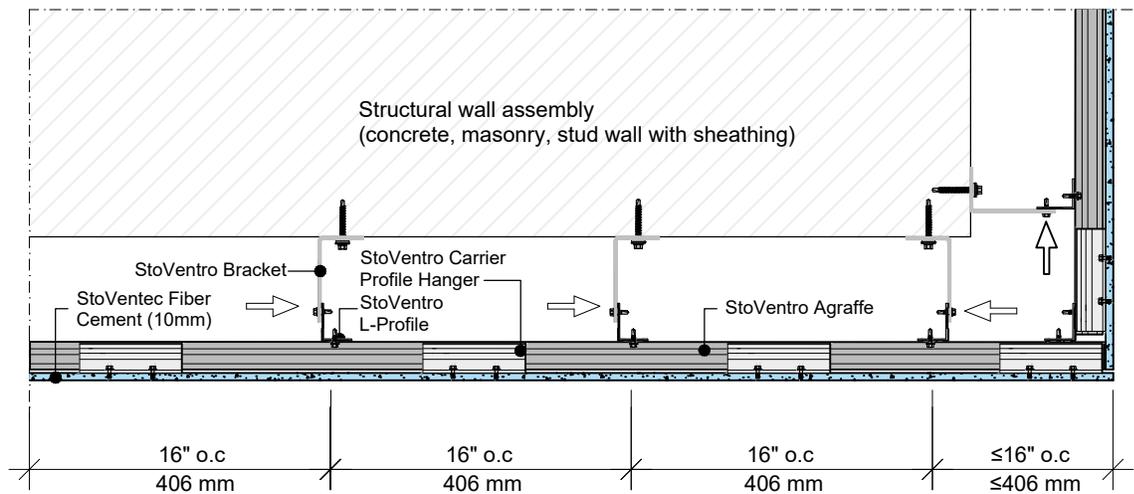
StoVentro™ Sub-construction Installation at outside corners, jambs, returning transitions, and transitions to alternative cladding - Concealed F.C. Fixing

Plan View

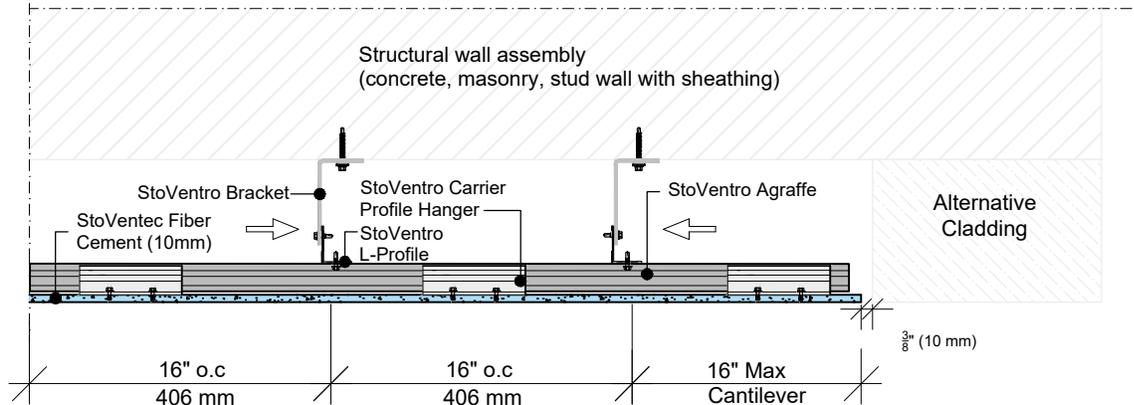
Date: August 2025

Detail No.: 90.Fc.049C

⇒ Recommended fastening direction for connection of the StoVentro™ Wall Brackets to the vertical StoVentro™ Profile and alignment of the wall brackets



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



2 StoVentro™ Wall Brackets, Profile alignment and requirements at returning transitions and transitions to alternative cladding

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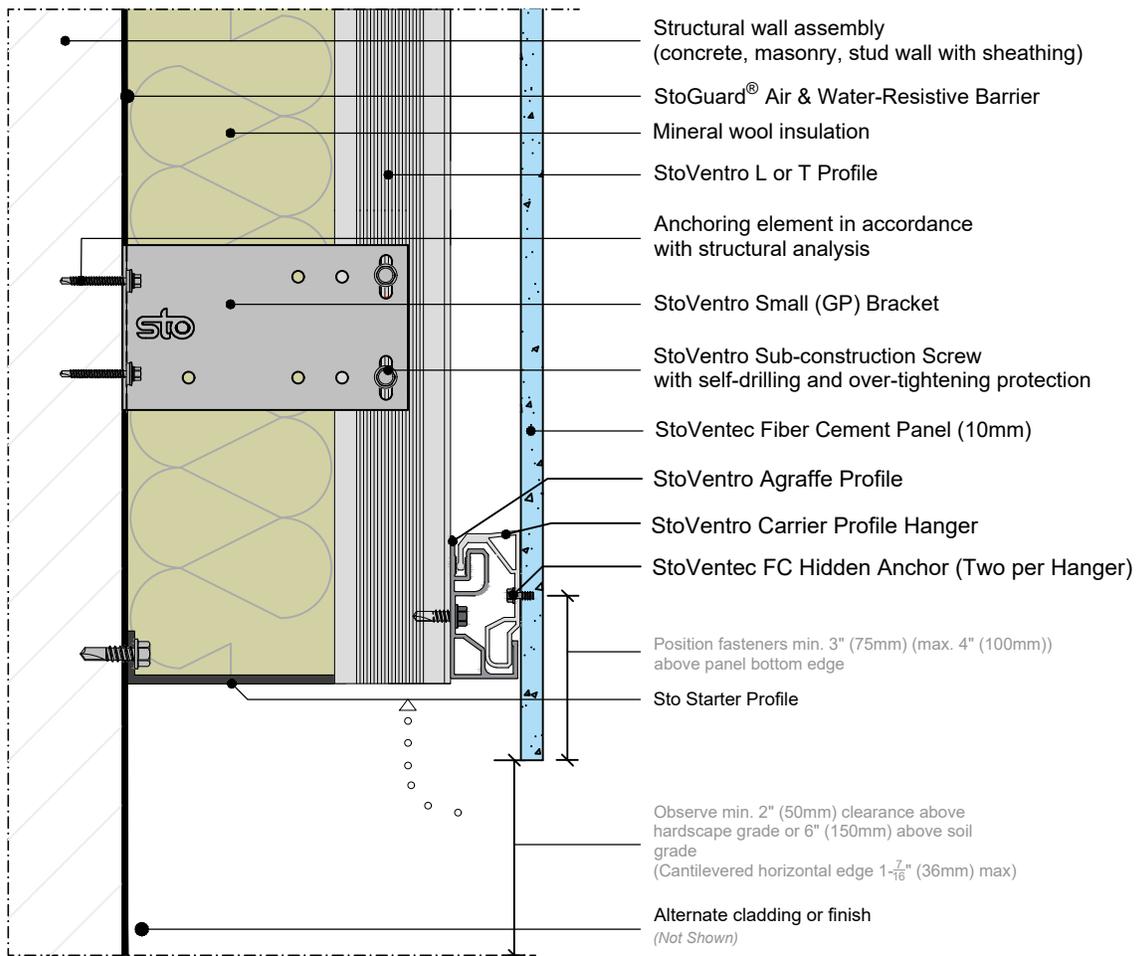
Building with conscience.

StoVentec Fiber Cement panel installation

StoVentro™ Sub-Construction System
Installation at grade - Concealed F.C. Fixing
Section View

Date: August 2025

Detail No.: 90.Fc.055C



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Building with conscience.

StoVentec Fiber Cement panel installation

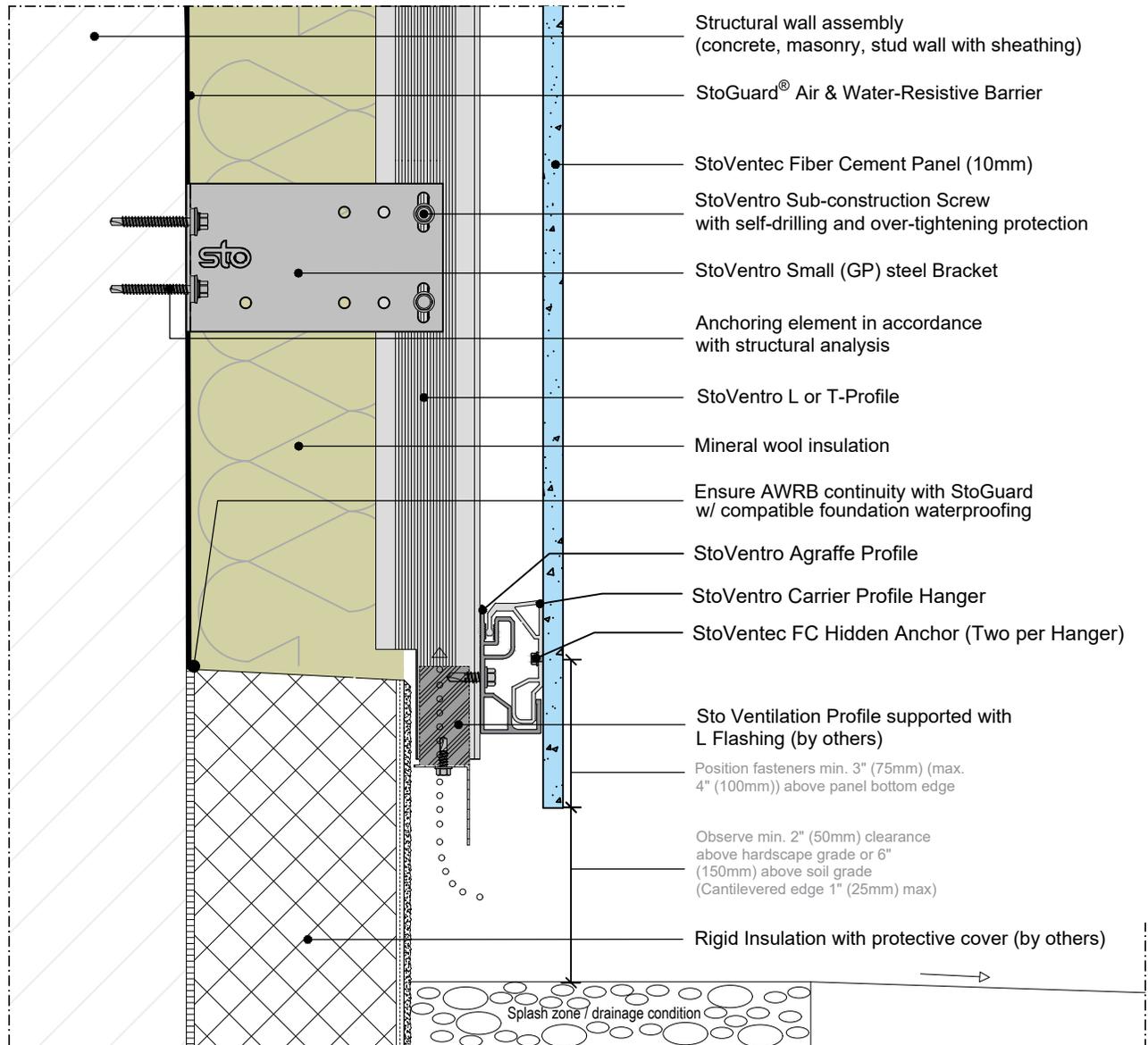
StoVentro™ Sub-Construction System

Installation at grade with Sto Ventilation Profile - Concealed F.C. Fixing

Section View

Date: August 2025

Detail No.: 90.Fc.065C



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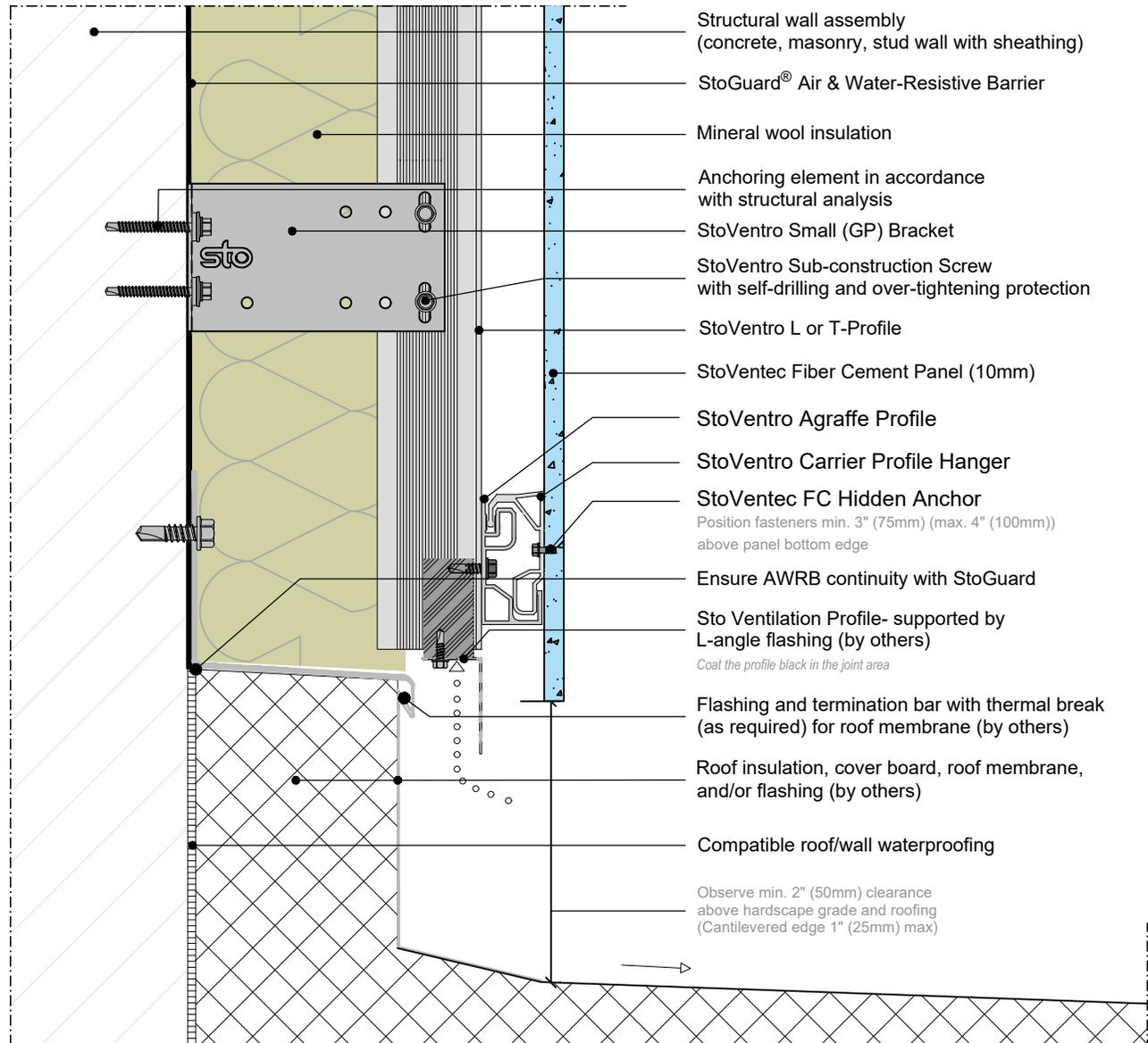


Building with conscience.

StoVentec Fiber Cement
StoVentro™ Sub-Construction System
Concealed Fixing - Installation at Roofline with Sto Ventilation Profile
 Section View

Date: August 2025

Detail No.: 90.Fc.150C



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StoVentec Fiber Cement

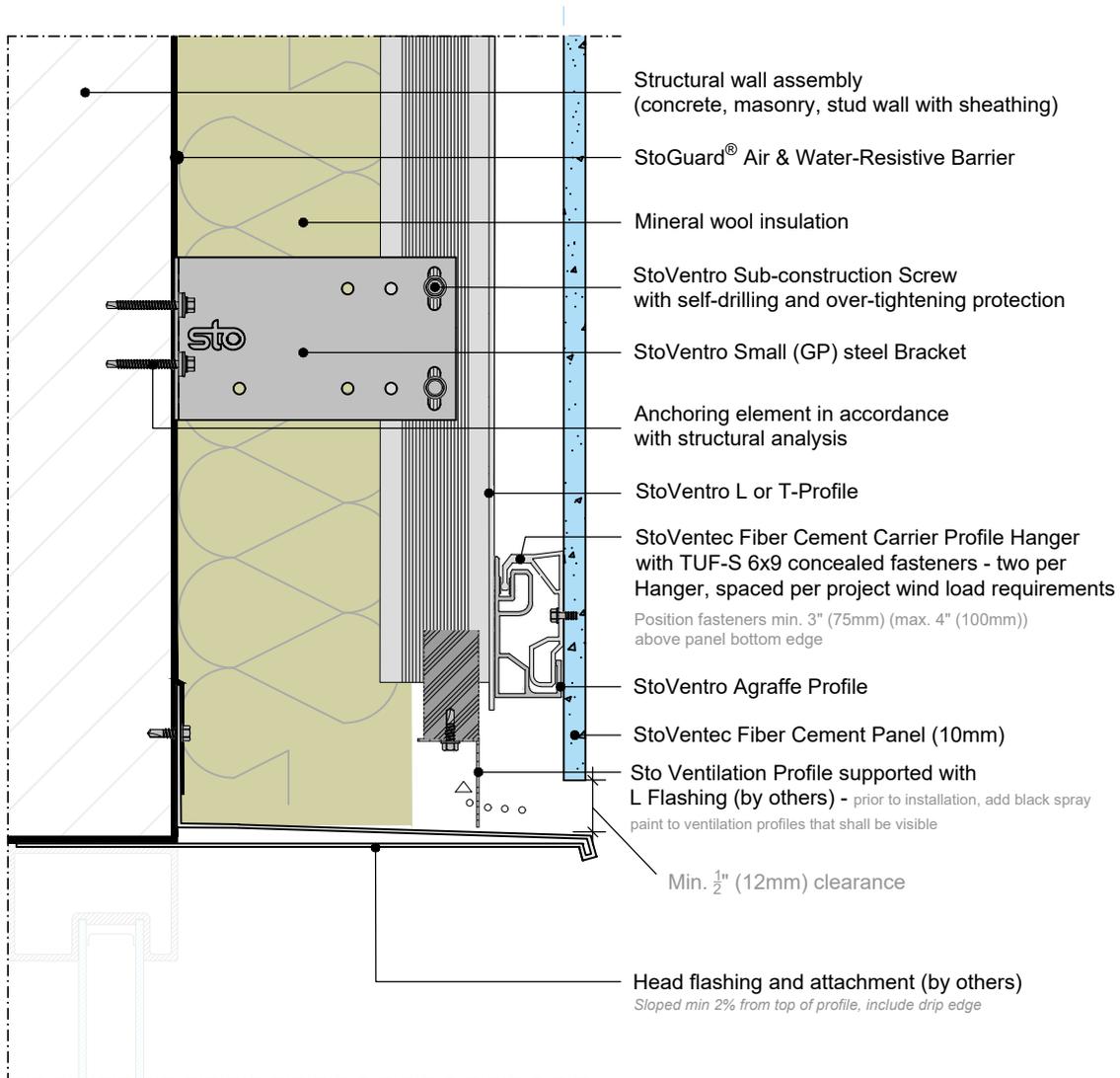
StoVentro™ Sub-Construction System

Concealed Fastening - Installation at Window Head with head flashing and Ventilation Profile

Section View

Date: August 2025

Detail No.: 90.Fc.080C



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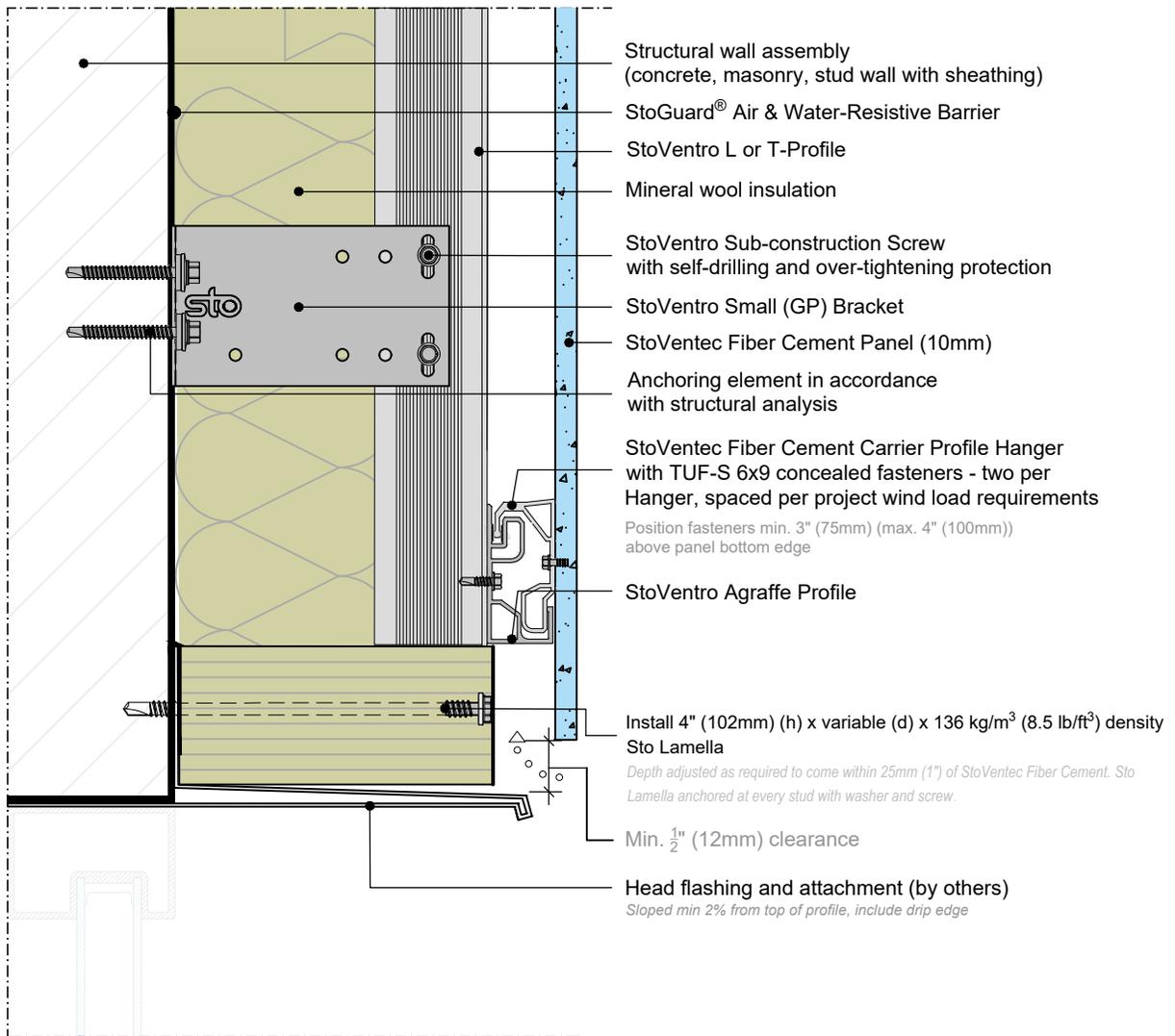
StoVentec Fiber Cement

StoVentro™ Sub-Construction System

Fire protection at Window Head with Sto Lamella and Intumescent Tape - Concealed F.C. Fixing
Section View

Date: August 2025

Detail No.: 90.Fc.082C



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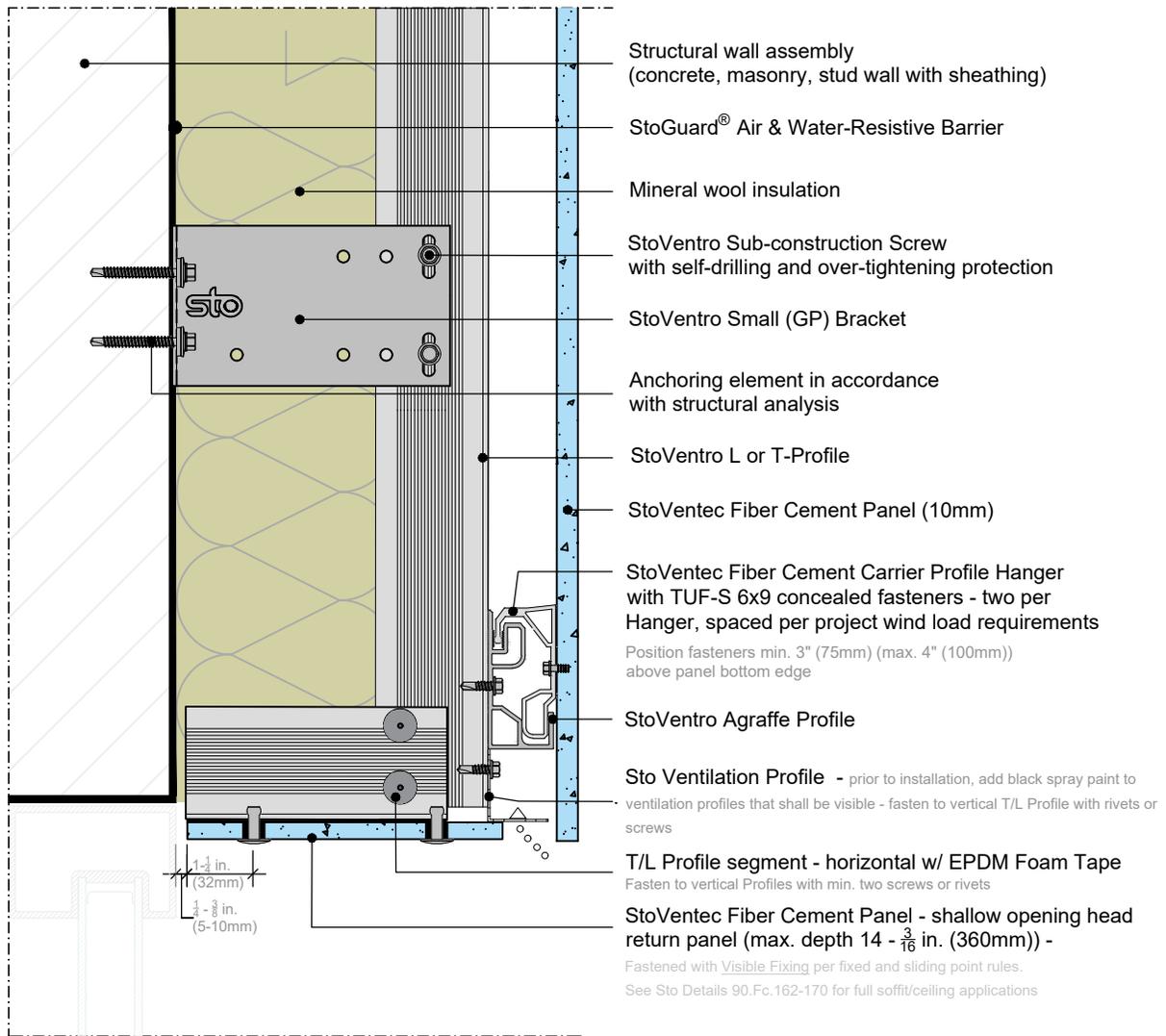
StoVentec Fiber Cement

StoVentro™ Sub-Construction System

Installation with Concealed Fixing at Window Head with Fiber Cement shallow return (maximum depth 14 - $\frac{3}{16}$ in. (360mm)) (Visible Fixing) and Ventilation Profile
Section View

Date: August 2025

Detail No.: 90.Fc.084C



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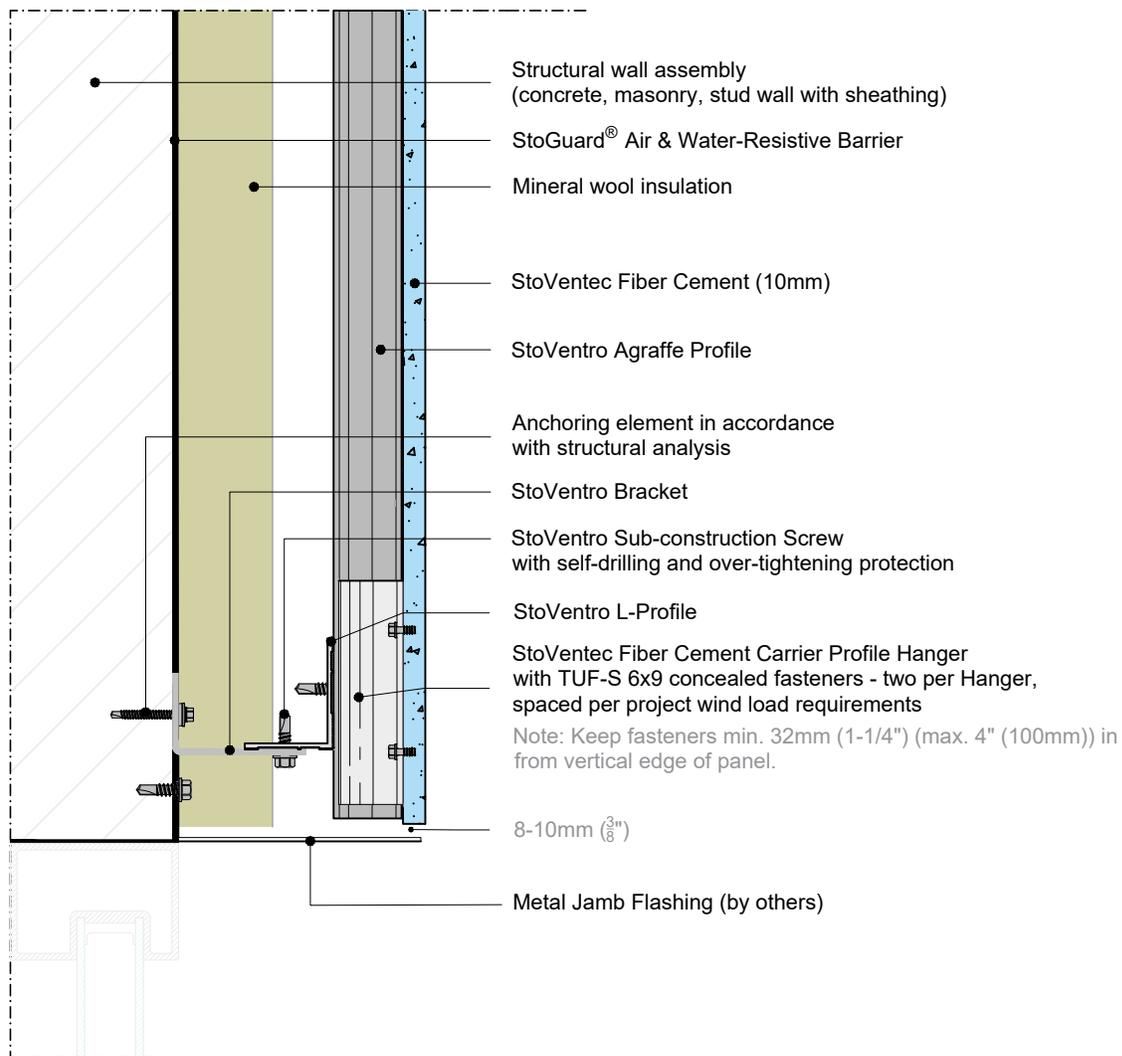
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StoVentec® Fiber Cement StoVentro Sub-construction

Window Jamb - Metal Return - Concealed F.C. Fixing
Plan View

Date: August 2025

Detail No.: 90.Fc.086C



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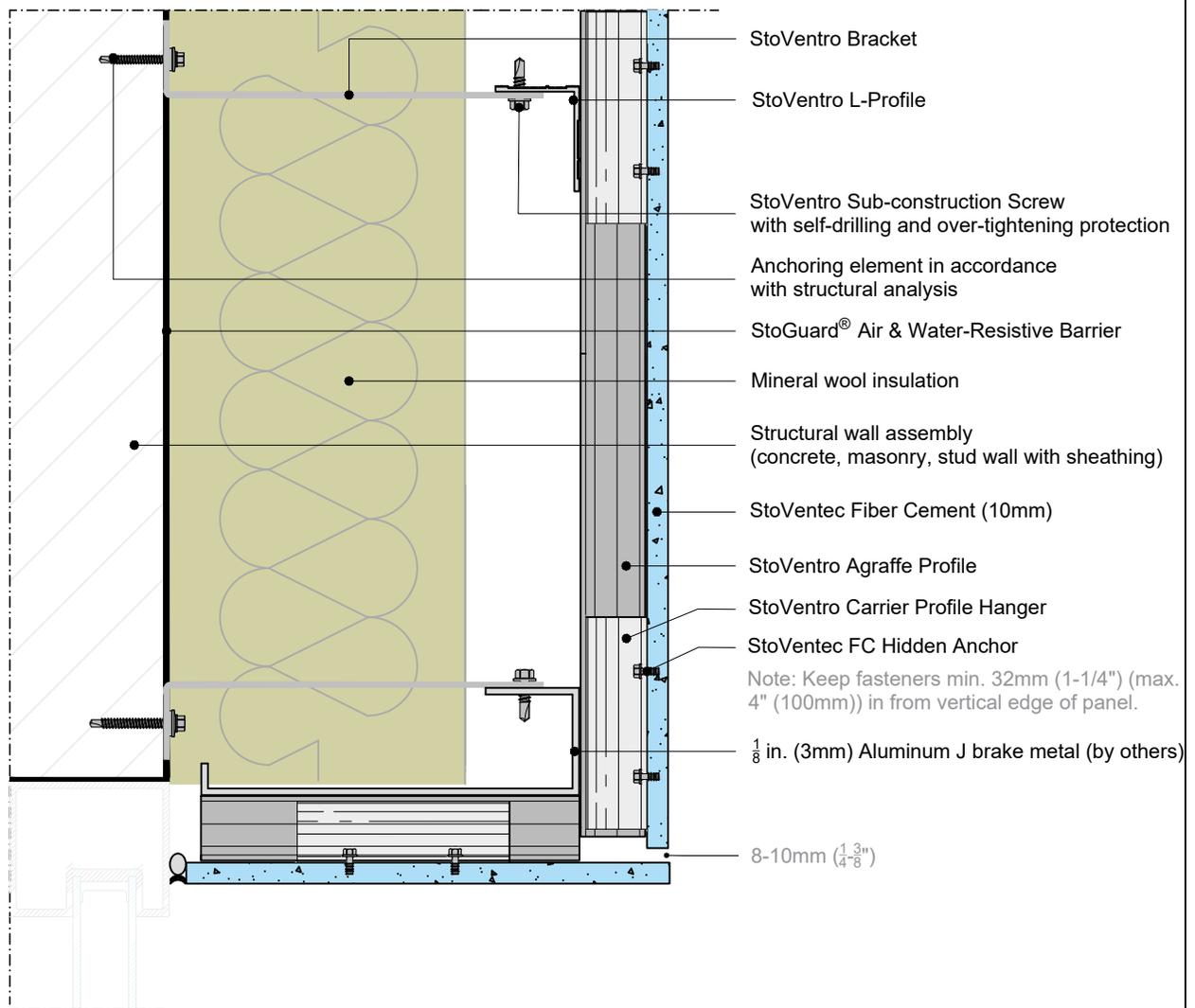
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StoVentec[®] Fiber Cement StoVentro Sub-construction

Concealed Fixing - Window Jamb - Deep F.C. Return >6 inches (152mm) with Brake Metal
Plan View

Date: August 2025

Detail No.: 90.Fc.088C



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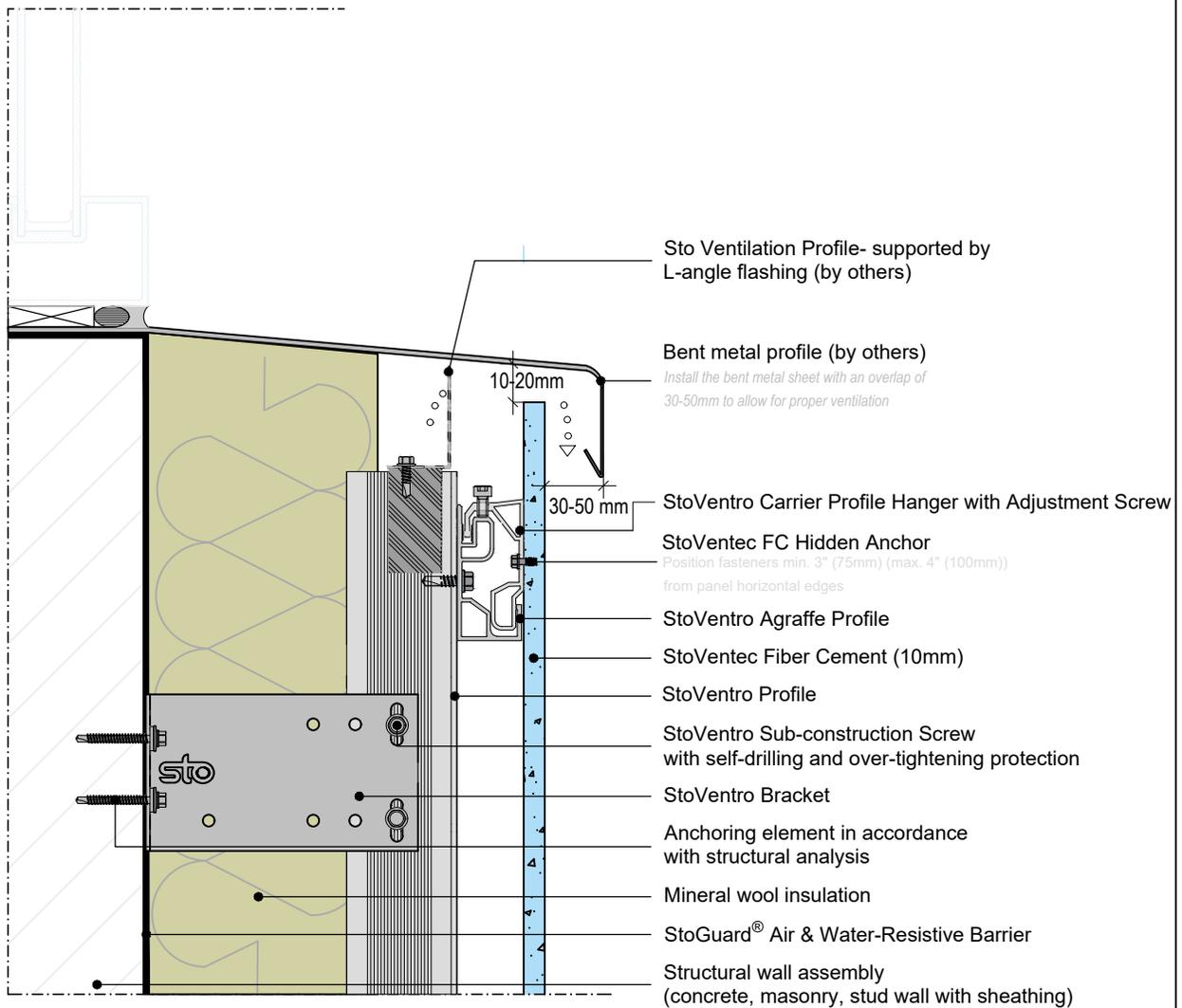
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StoVentec® Fiber Cement
StoVentro Sub-construction

Concealed Fixing - Window Sill with Sto Ventilation Profile
 Section View

Date: August 2025

Detail No.: 90.Fc.090C



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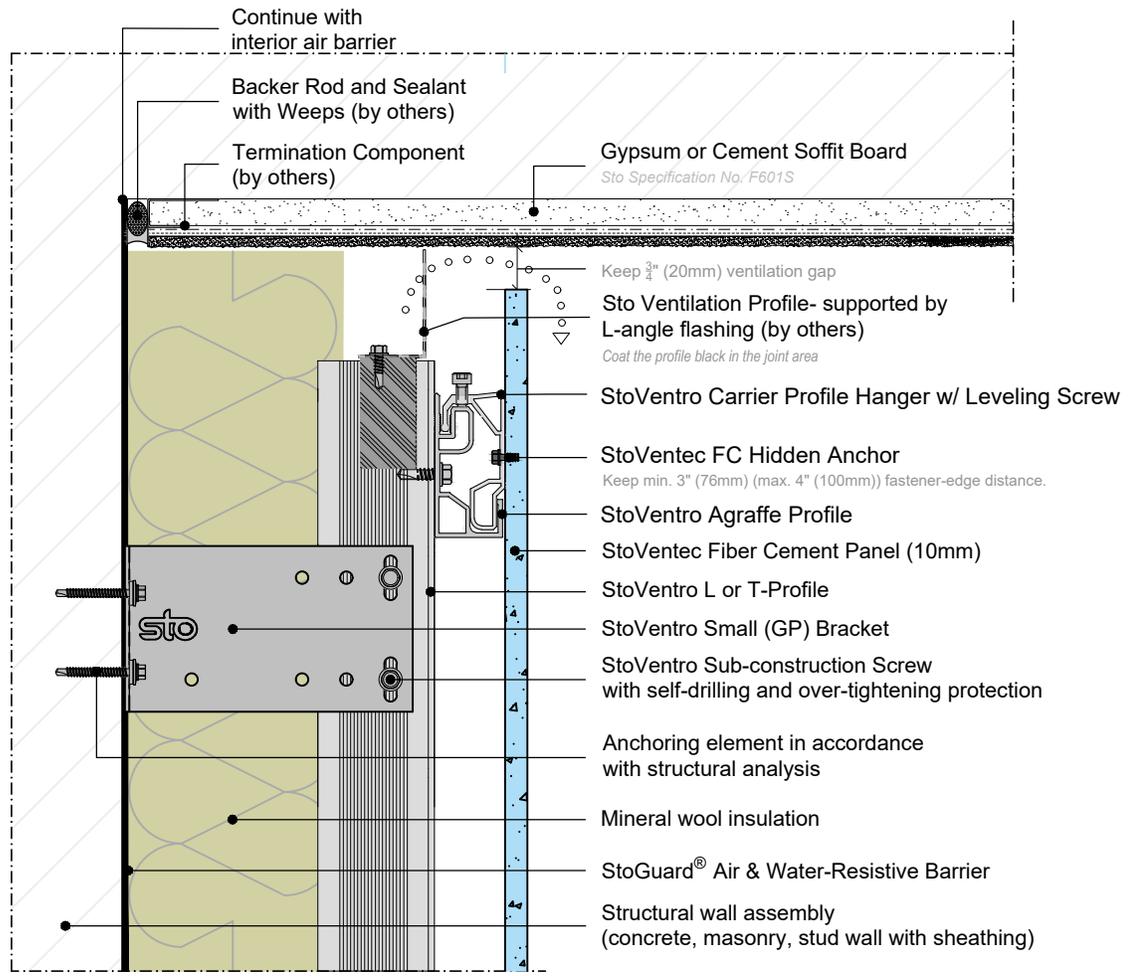
StoVentec Fiber Cement

Concealed Fixing - Termination under Soffit or Ceiling Installation - Not Insulated (Unconditioned)
 StoVentro and Sto Direct-applied Finish System for Soffits and Ceilings
 Section View

Date: August 2025

Detail No.: 90.Fc.161C

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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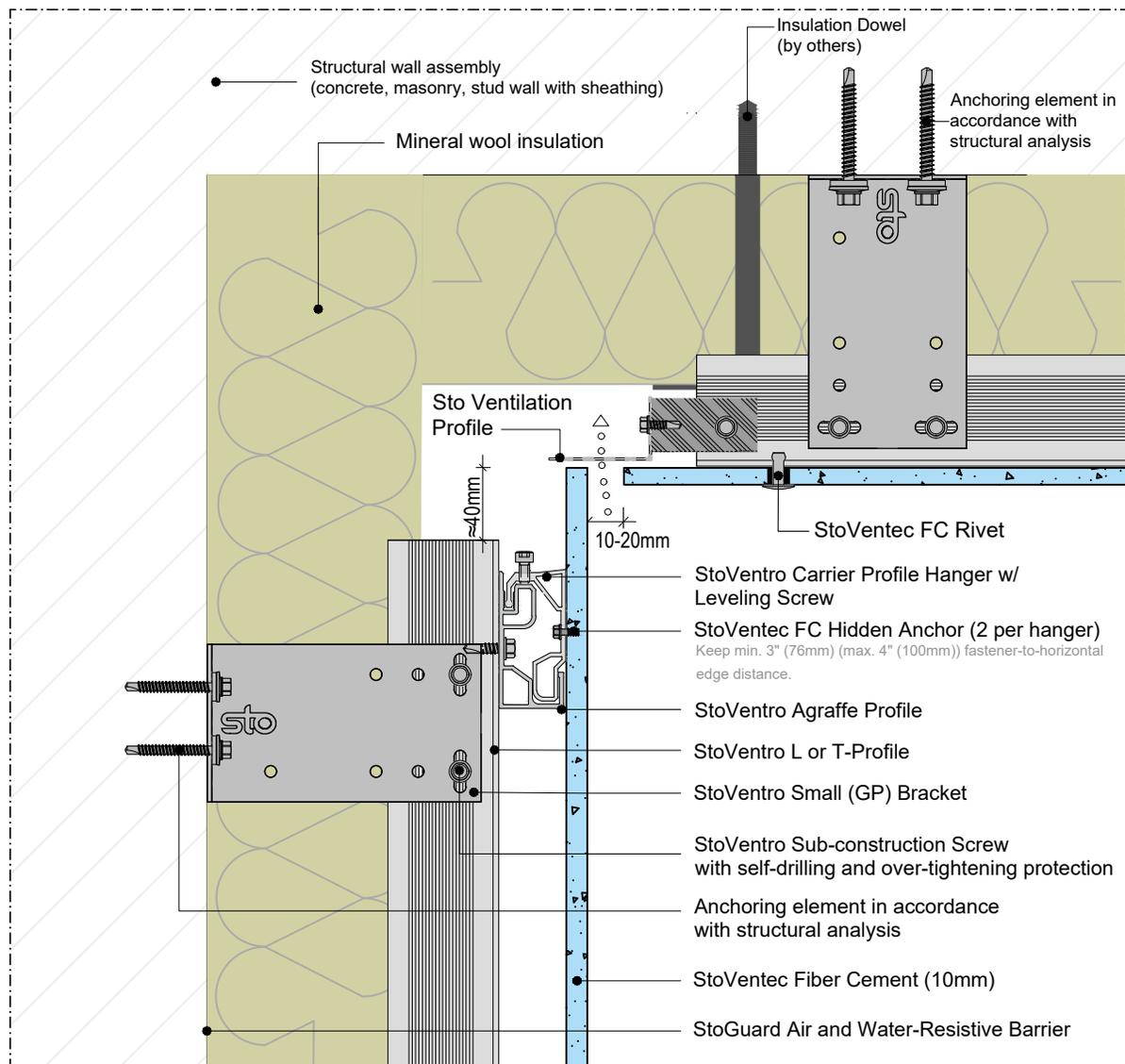
StoVentec® Fiber Cement

StoVentro Sub-Construction with Sto Ventilation Profile

Concealed Fixing - Vertical wall to Soffit or Ceiling Installation (Visible Fixing) - Insulated (Conditioned)
Section View

Date: August 2025

Detail No.: 90.Fc.162C



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StoVentec® Fiber Cement

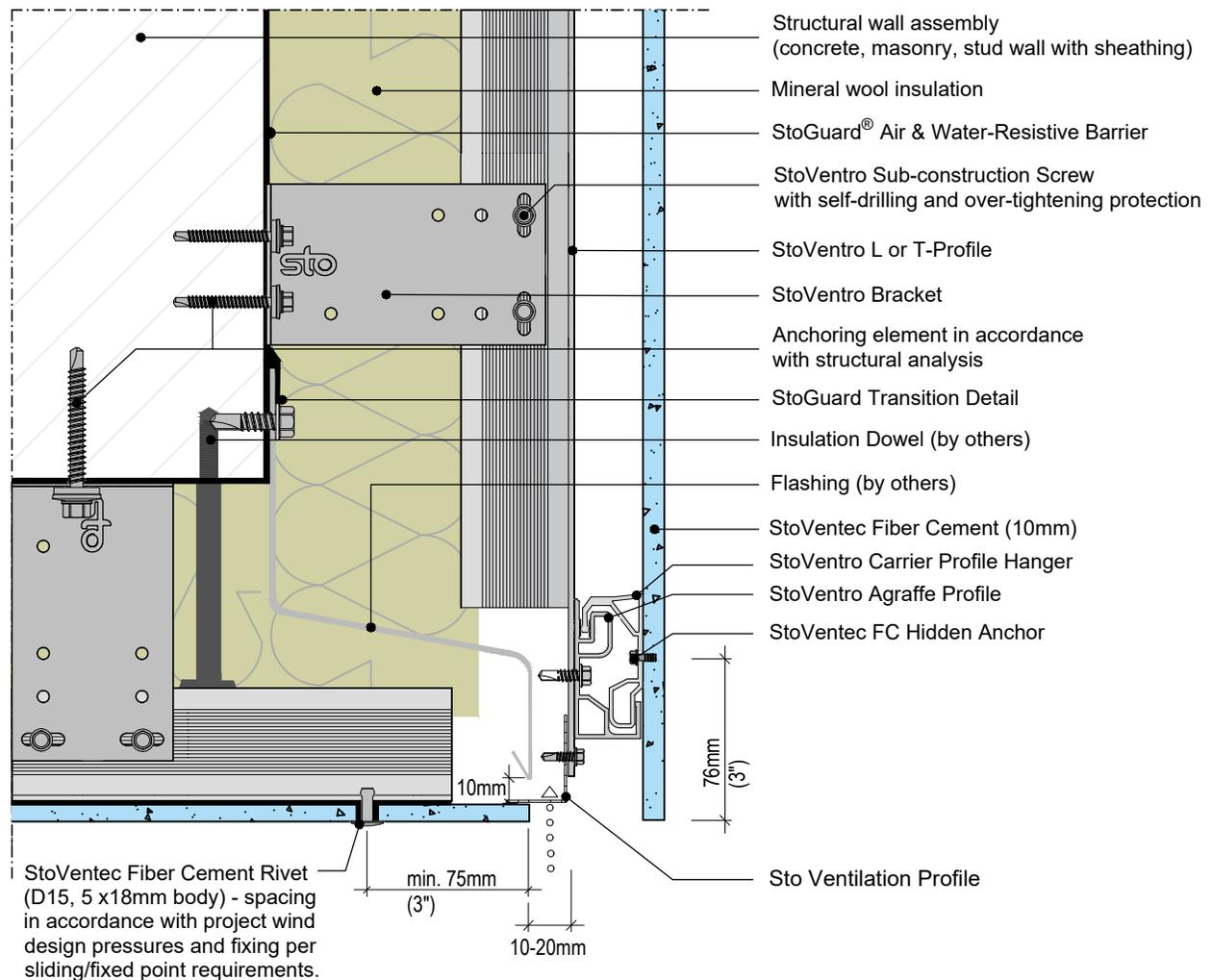
Soffit or Ceiling Transition to Vertical Wall Concealed Fixing Installation - Insulated (Conditioned)

Section View

Date: August 2025

Detail No.: 90.Fc.170C

Note: This detail assumes the soffit panel long dimension runs parallel to the vertical wall. Keep typical minimum fastener-panel edge distances. Refer to the Fiber Cement Design Guide or Installation Guide.



ATTENTION

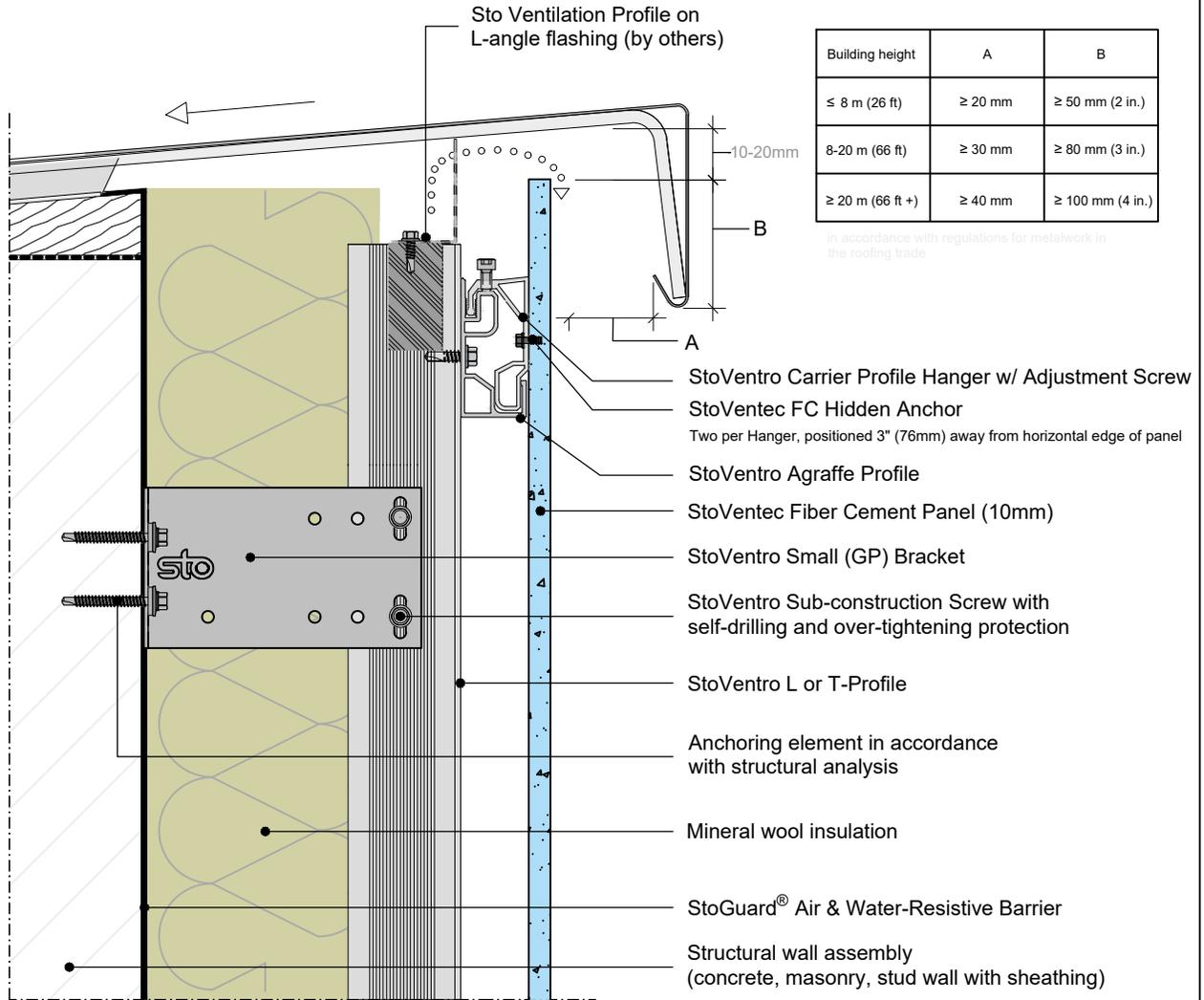
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StoVentec Fiber Cement
 StoVentro™ Sub-Construction System
 Concealed Fixing F.C. Installation under Parapet
 Section View

Date: August 2025

Detail No.: 90.Fc.180C



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StoVentec Fiber Cement

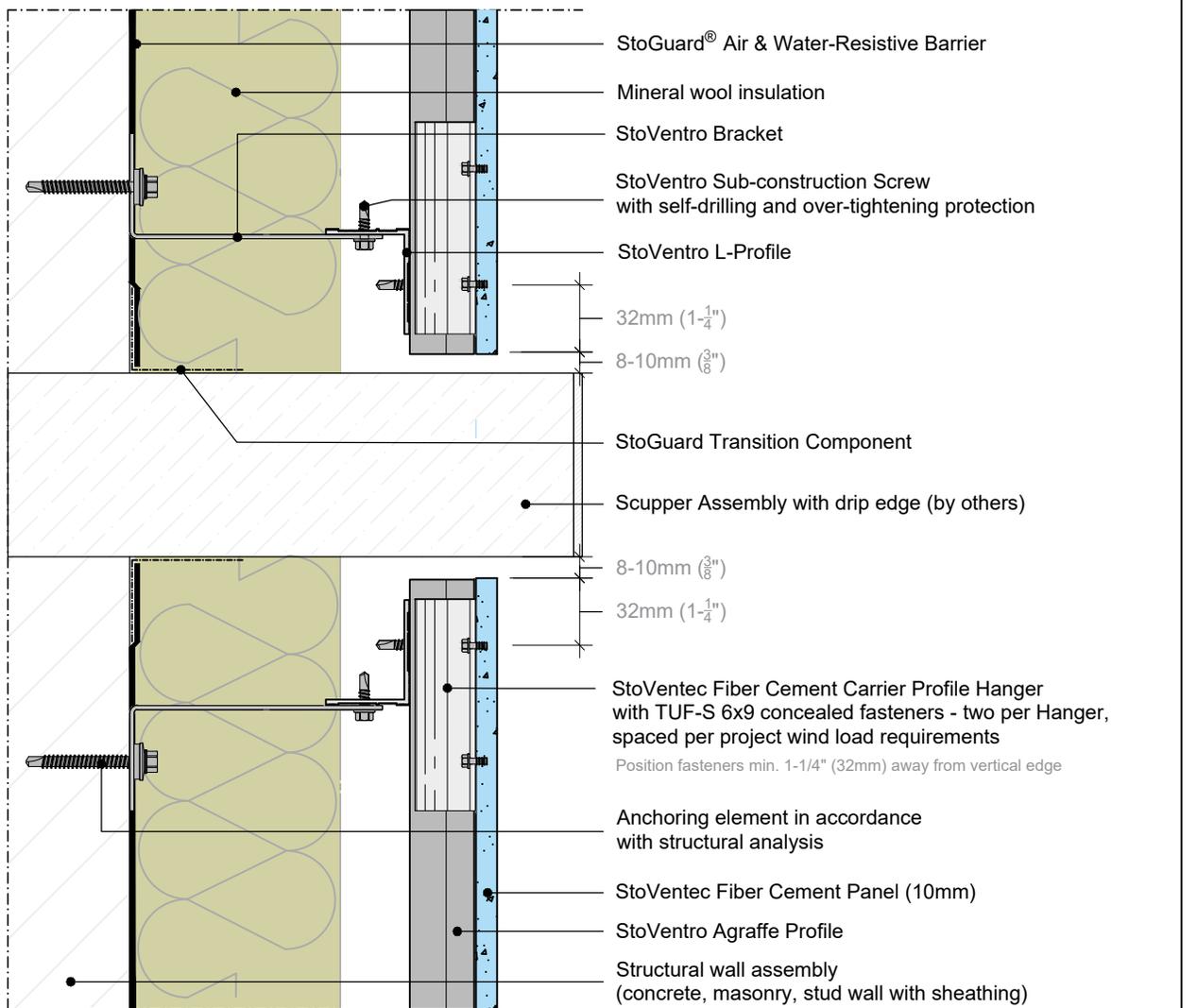
StoVentro™ Sub-Construction System

Scupper Penetration with open joints - Concealed F.C. Fixing

Plan View

Date: August 2025

Detail No.: 90.Fc.300C



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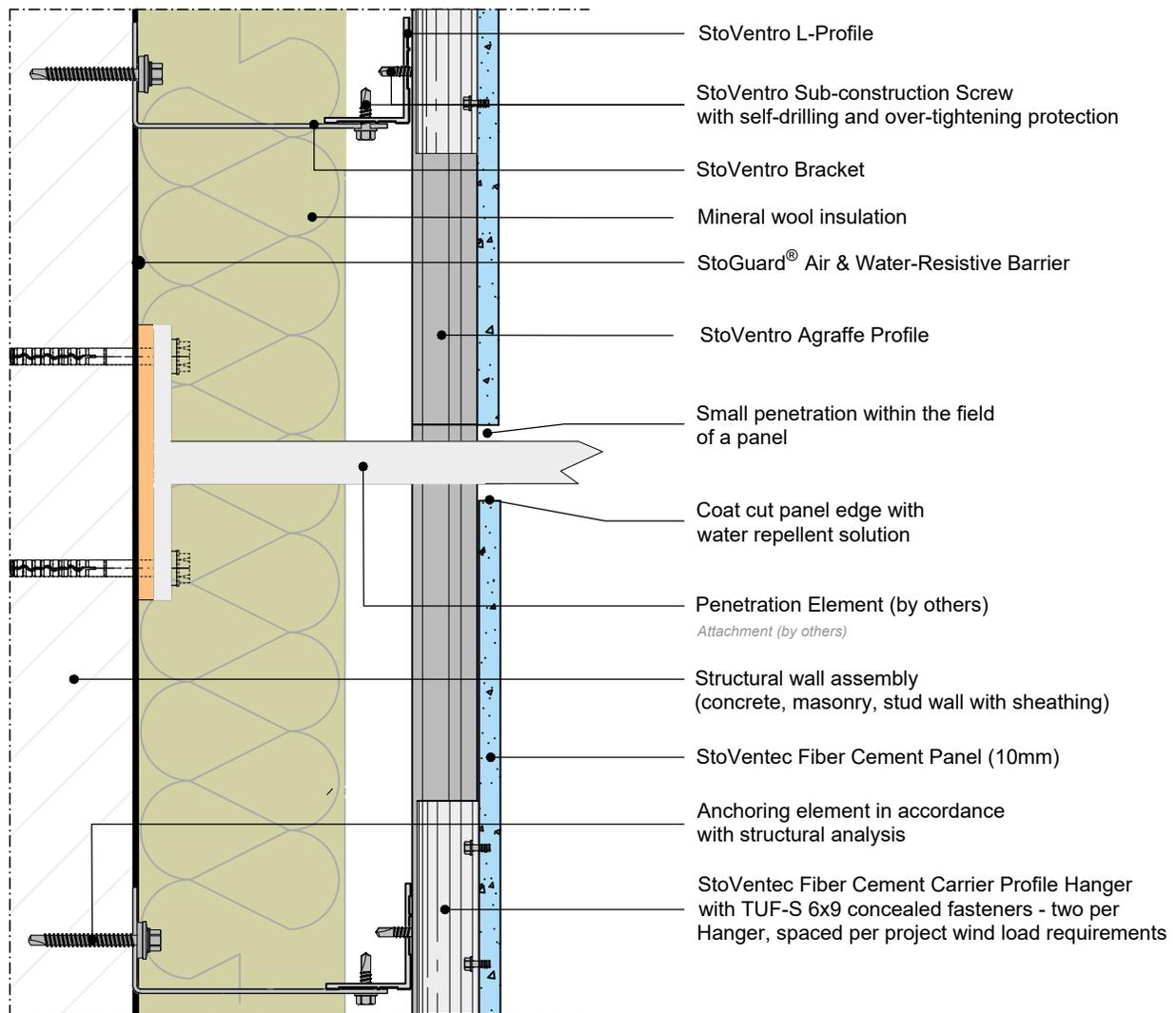
StoVentec Fiber Cement**StoVentro™ Sub-Construction System**

Concealed F.C. Fixing - Small Penetration - within the field of a panel

Plan View

Date: August 2025

Detail No.: 90.Fc.330C

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StoVentec Fiber Cement

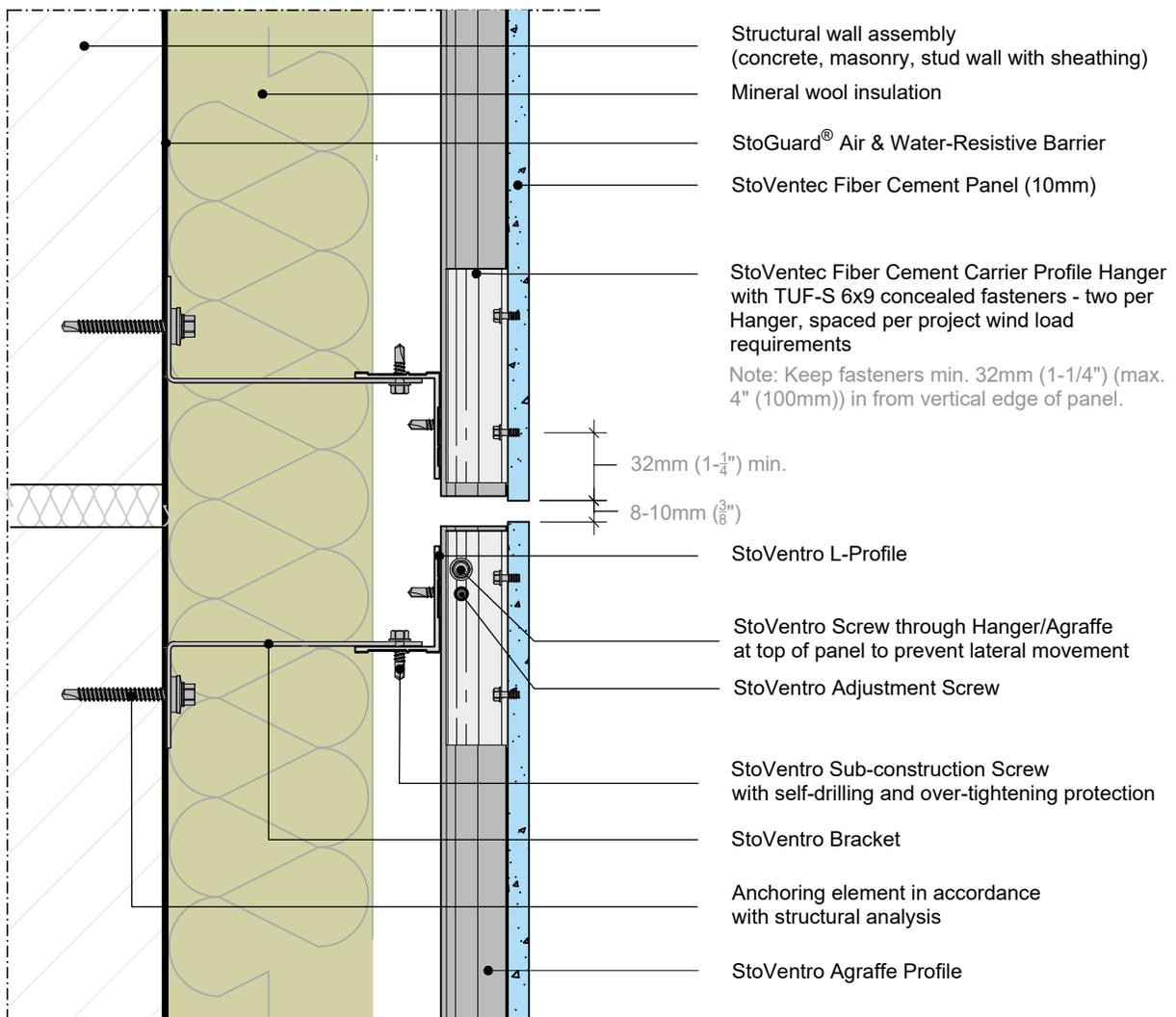
StoVentro™ Sub-Construction System

Back-up wall Structural Joint with Concealed Fixing Fiber Cement Joint

Plan View

Date: August 2025

Detail No.: 90.Fc.390C



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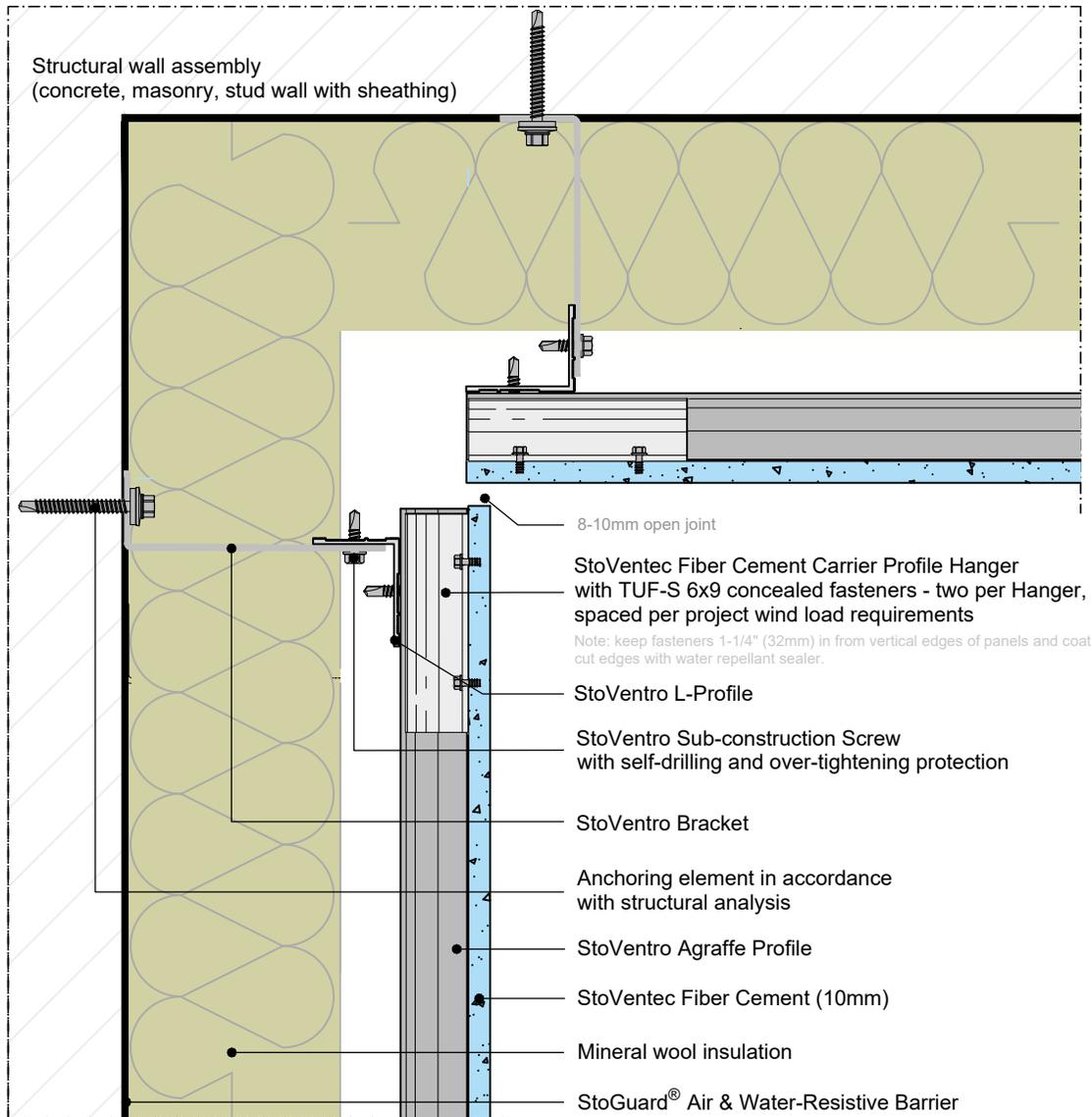
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StoVentec Fiber Cement
StoVentro™ Sub-Construction System
 Concealed Fixing - Inside Corner - Open Joint
 Plan View

Date: August 2025

Detail No.: 90.Fc.400C

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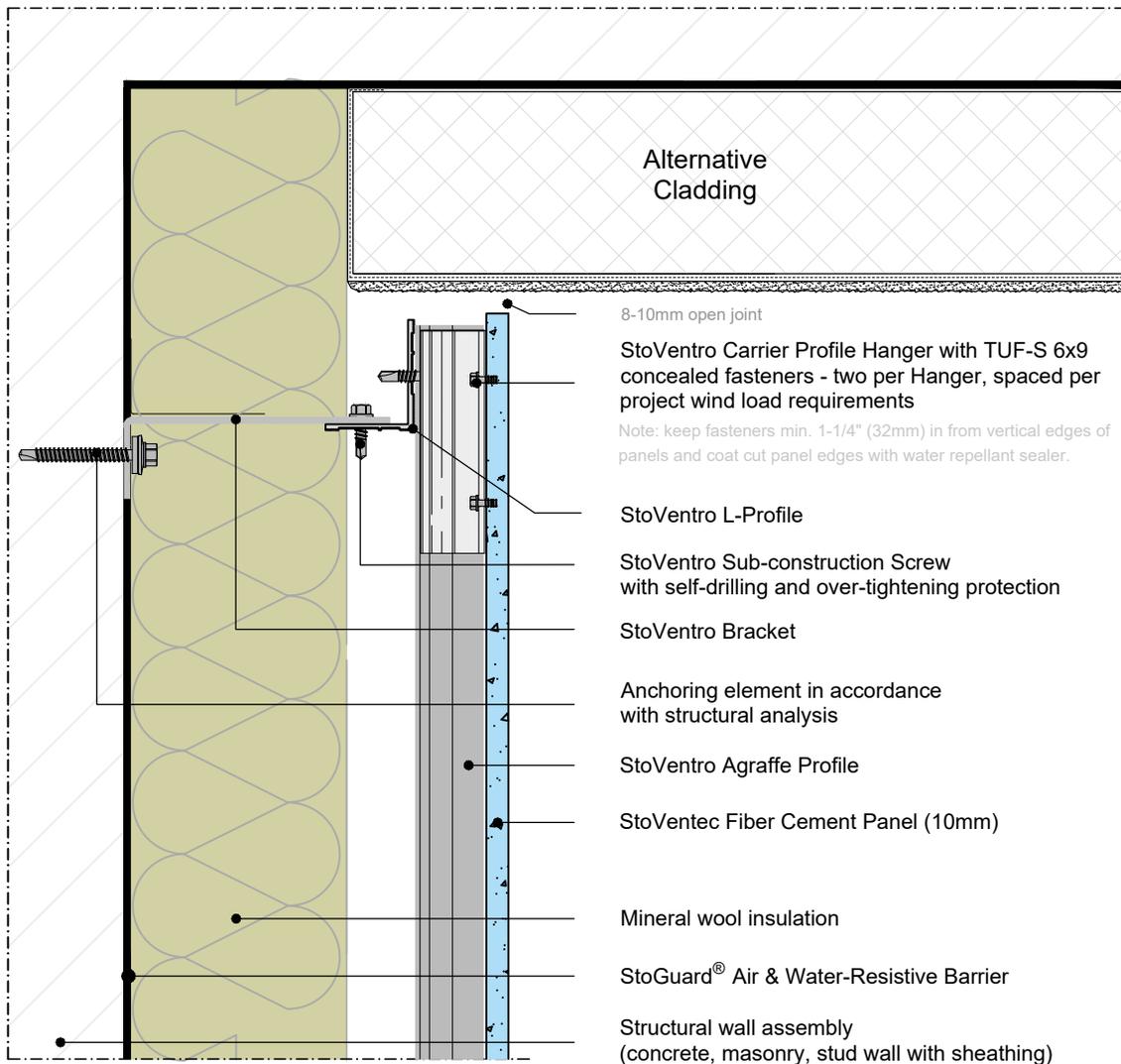
StoVentro™ Sub-Construction System

Concealed Fixing - Installation at Inside Corner to Alternative Facade

Plan View

Date: August 2025

Detail No.: 90.Fc.409C



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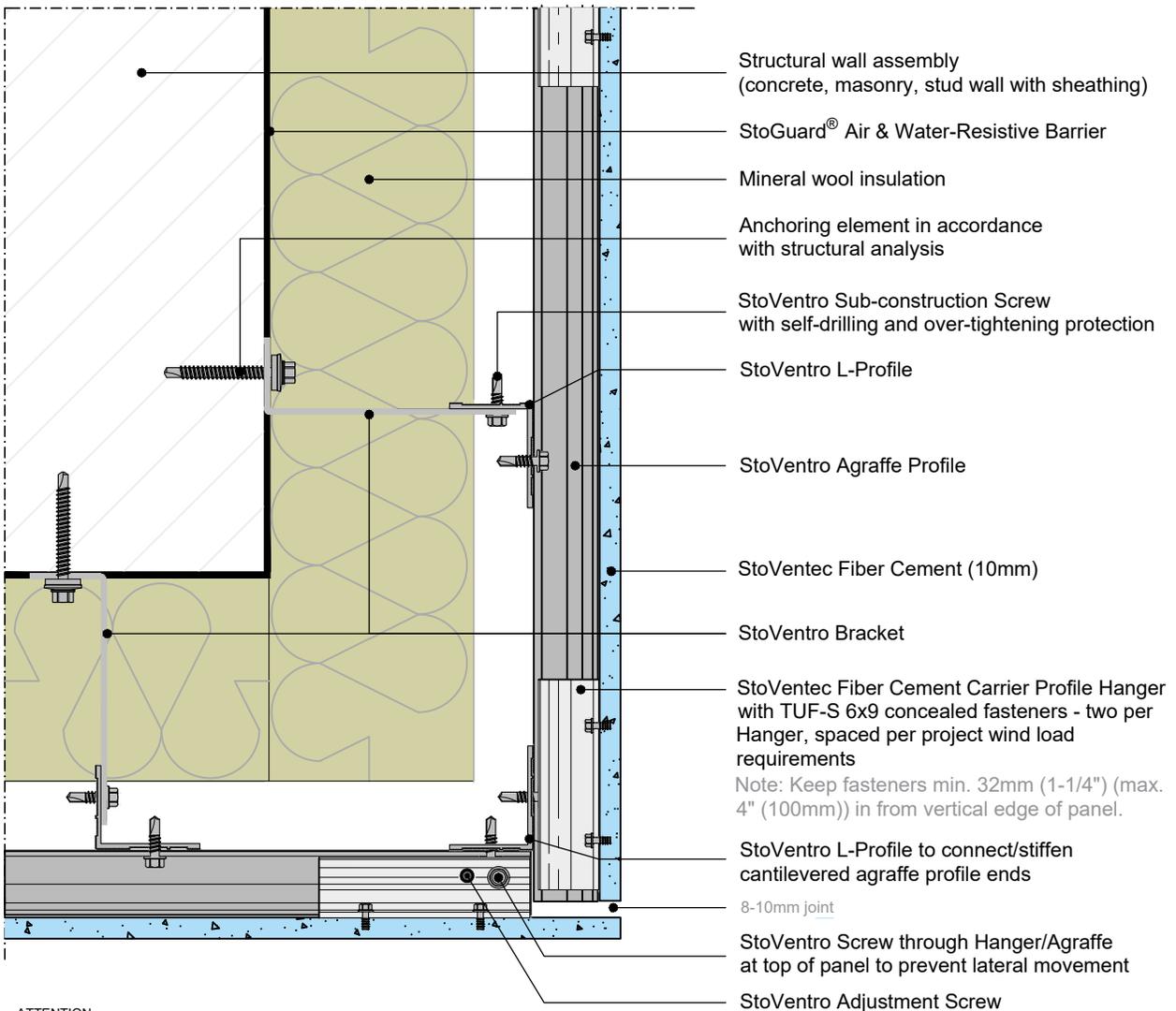
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StoVentec Fiber Cement
 StoVentro™ Sub-Construction System
 Outside Corner - Concealed F.C. Fixing
 Plan View

Date: August 2025

Detail No.: 90.Fc.410C



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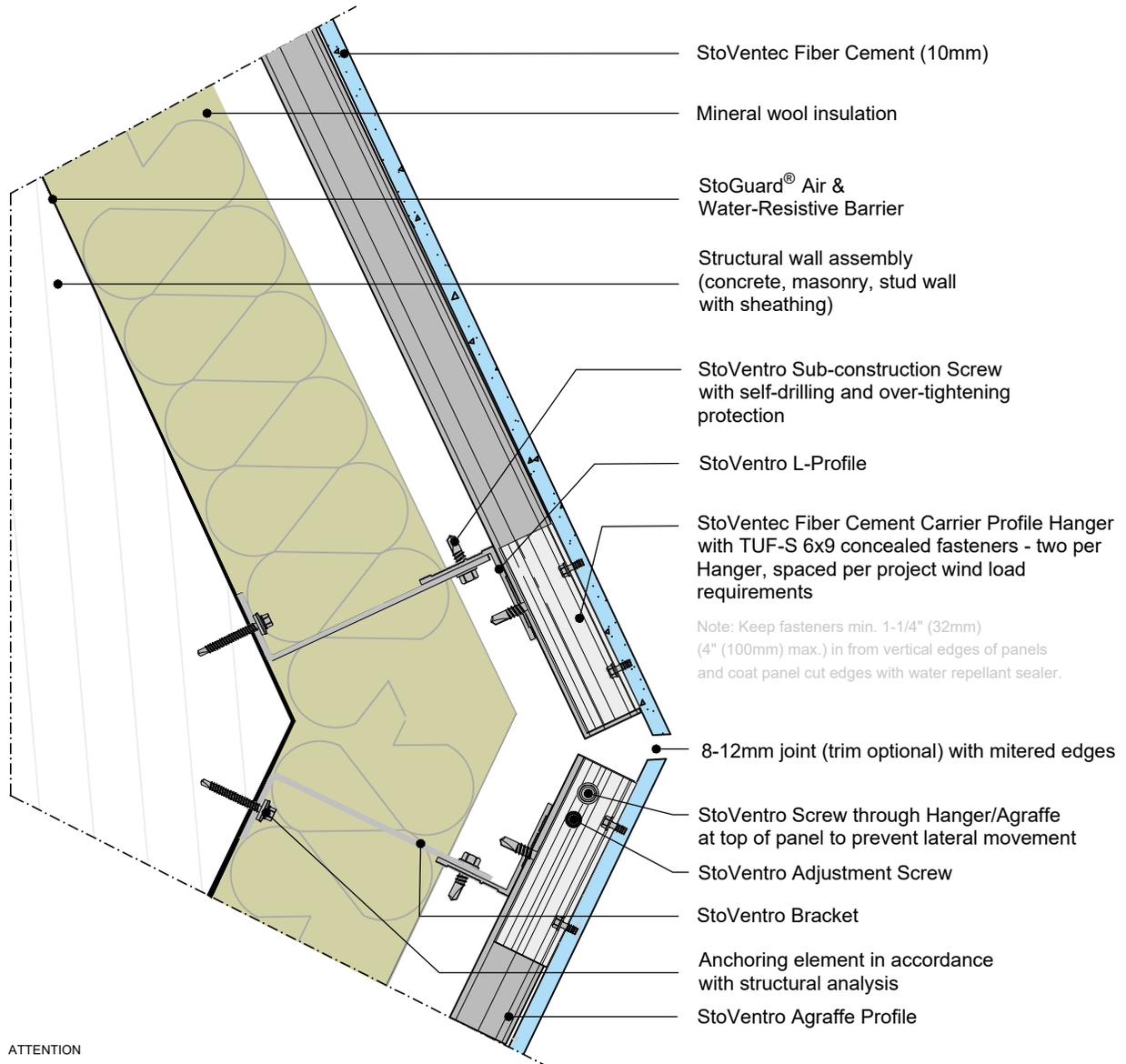
StoVentro™ Sub-Construction System

Segmented Radius/Non-90-Degree Outside Corner - Concealed F.C. Fixing

Plan View

Date: August 2025

Detail No.: 90.Fc.412C



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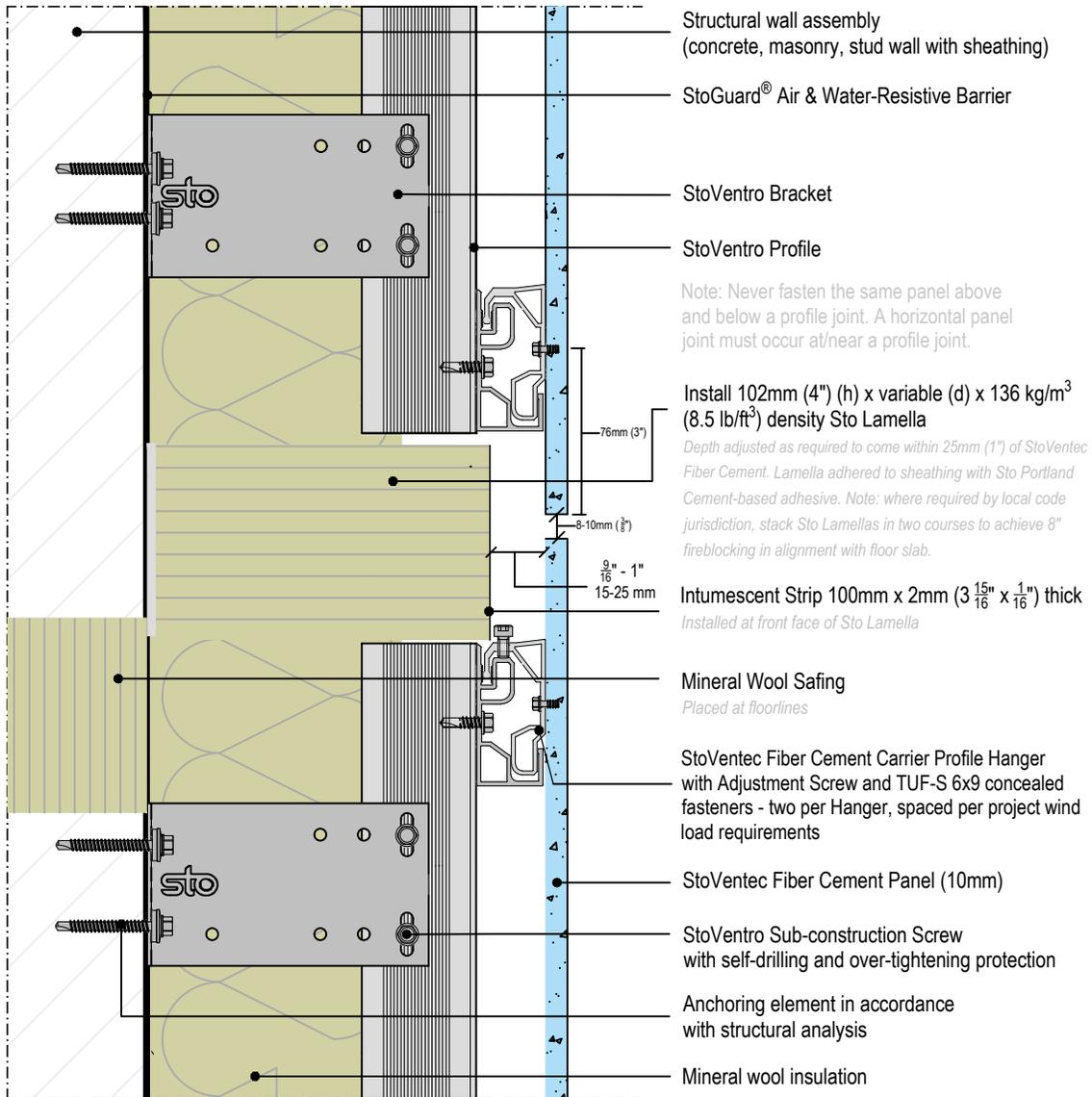
StoVentec™ Fiber Cement

StoVentro Sub-construction

Fire Protection at Floor Line - Horizontal Joint with Sto Lamella - Concealed F.C. Fixing
Section View

Date: August 2025

Detail No.: 90.Fc.550C



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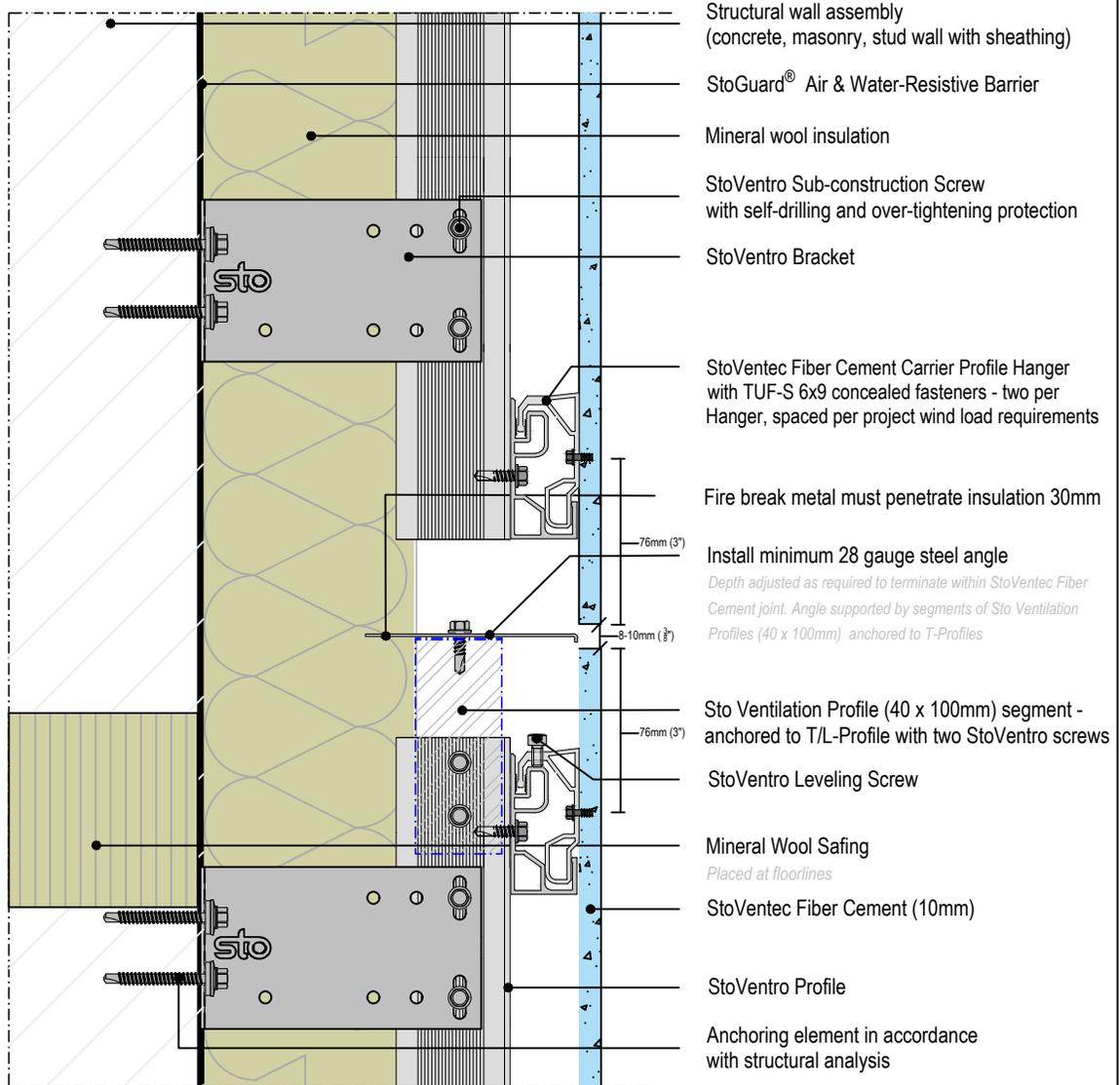
Building with conscience.

StoVentec™ Fiber Cement

Fire Protection at Floor Lines with Metal Fire Break w/ Ventilation Profiles
Concealed F.C. Fixing
Section View

Date: August 2025

Detail No.: 90.Fc.555C



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