

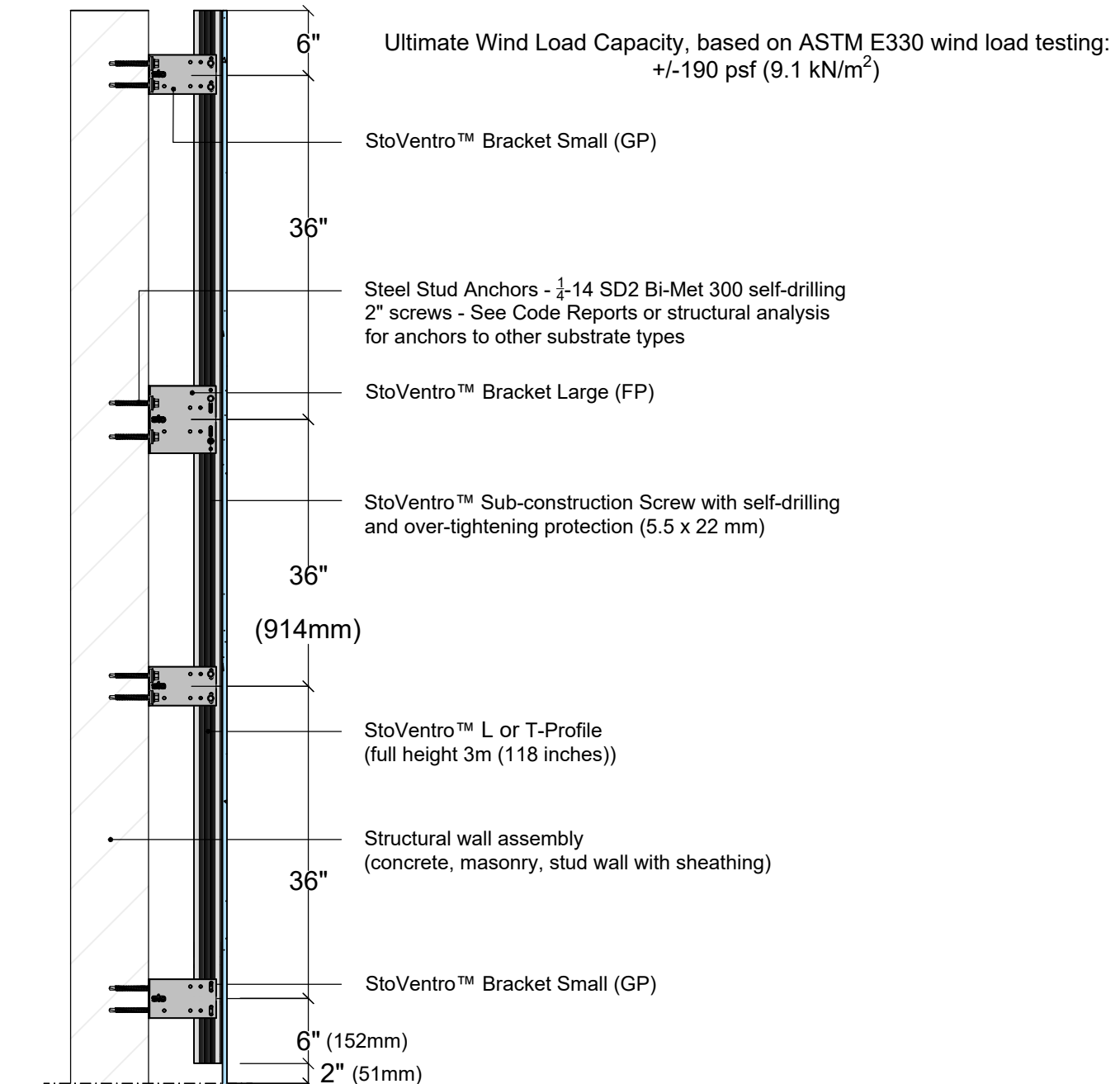
StoVentec® Fiber Cement

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

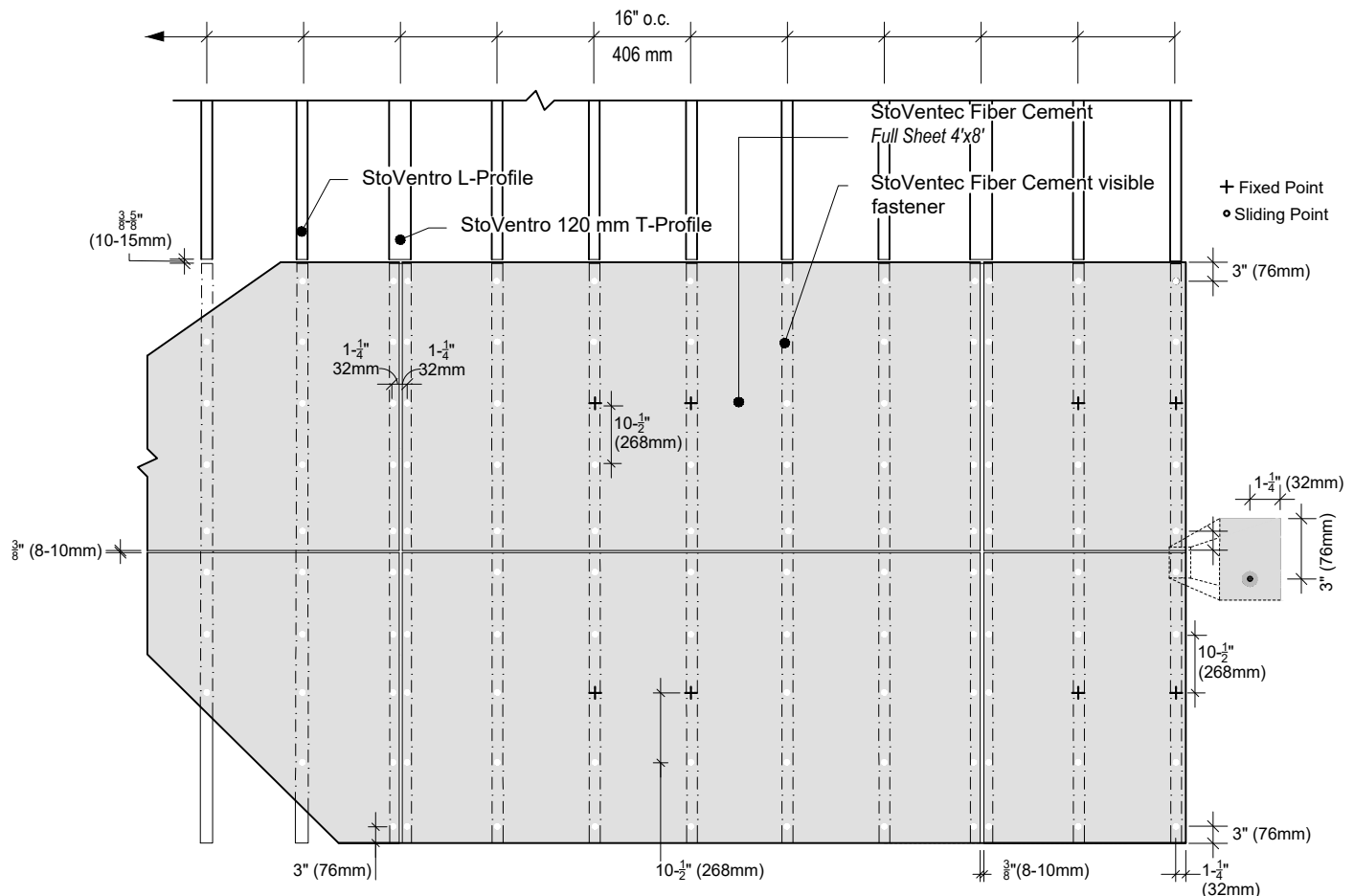
Date: August 2024

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 ($\sim \frac{3}{8}$ ").
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

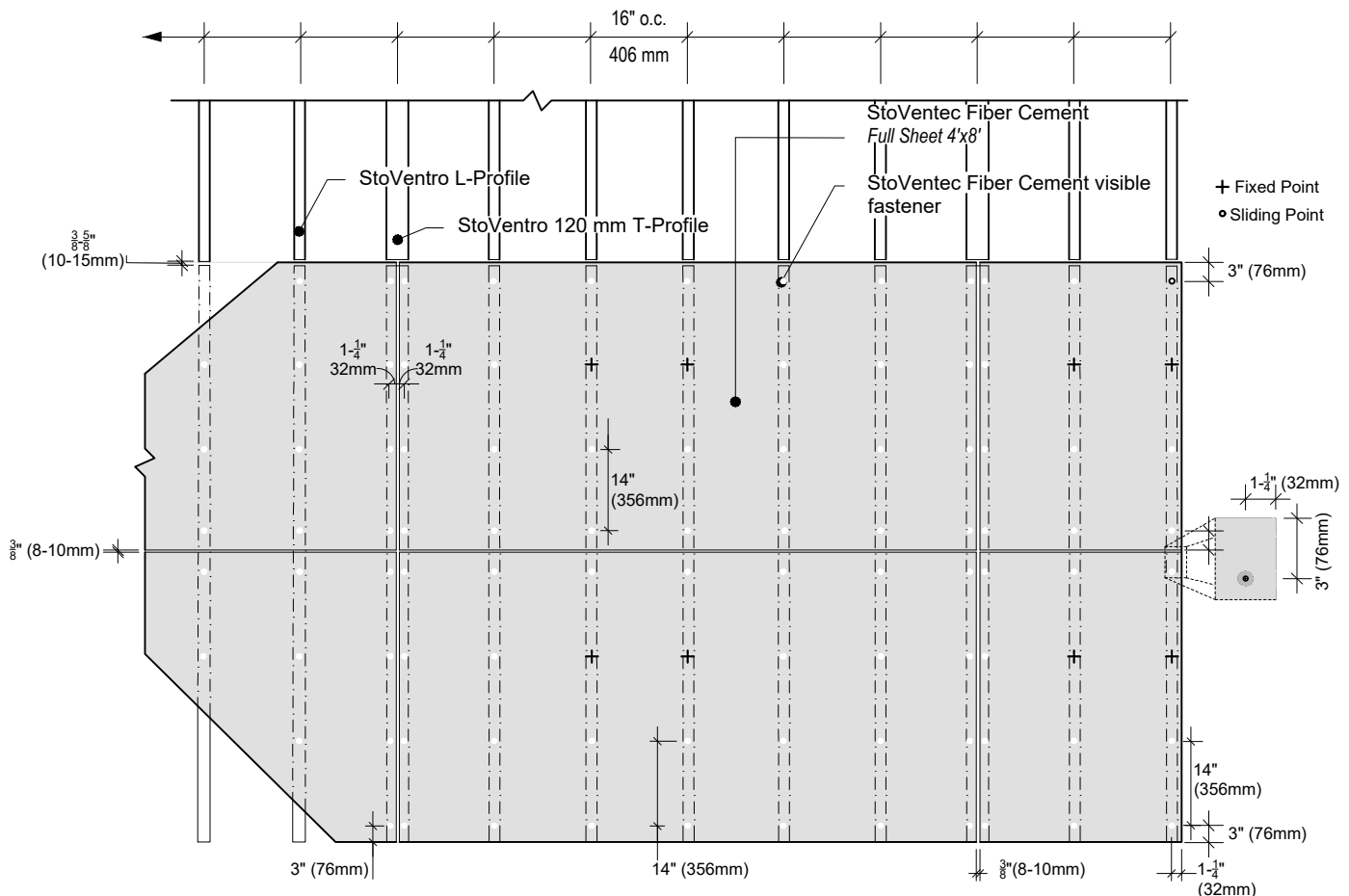
Date: August 2024

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

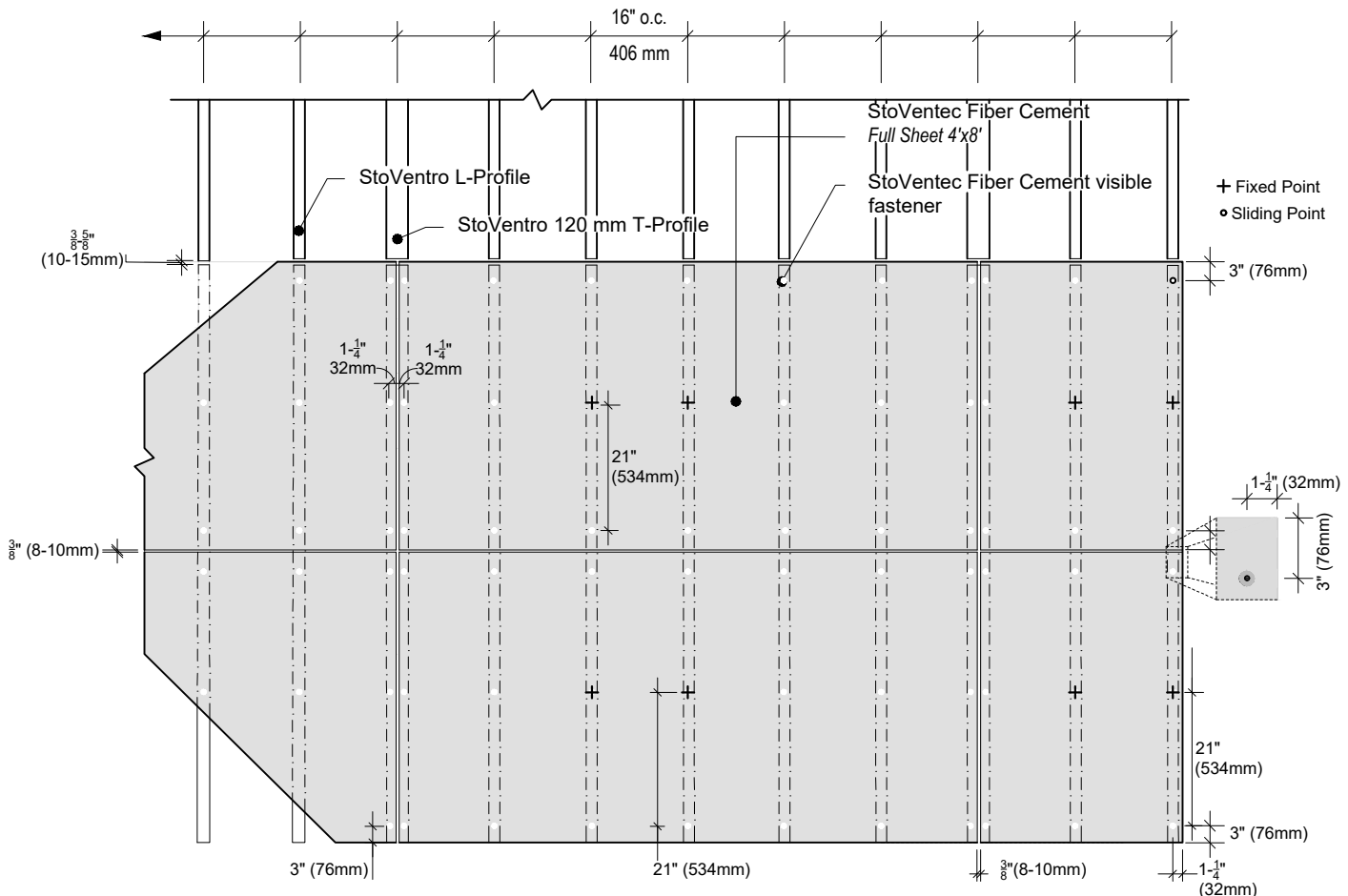
Date: August 2024

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

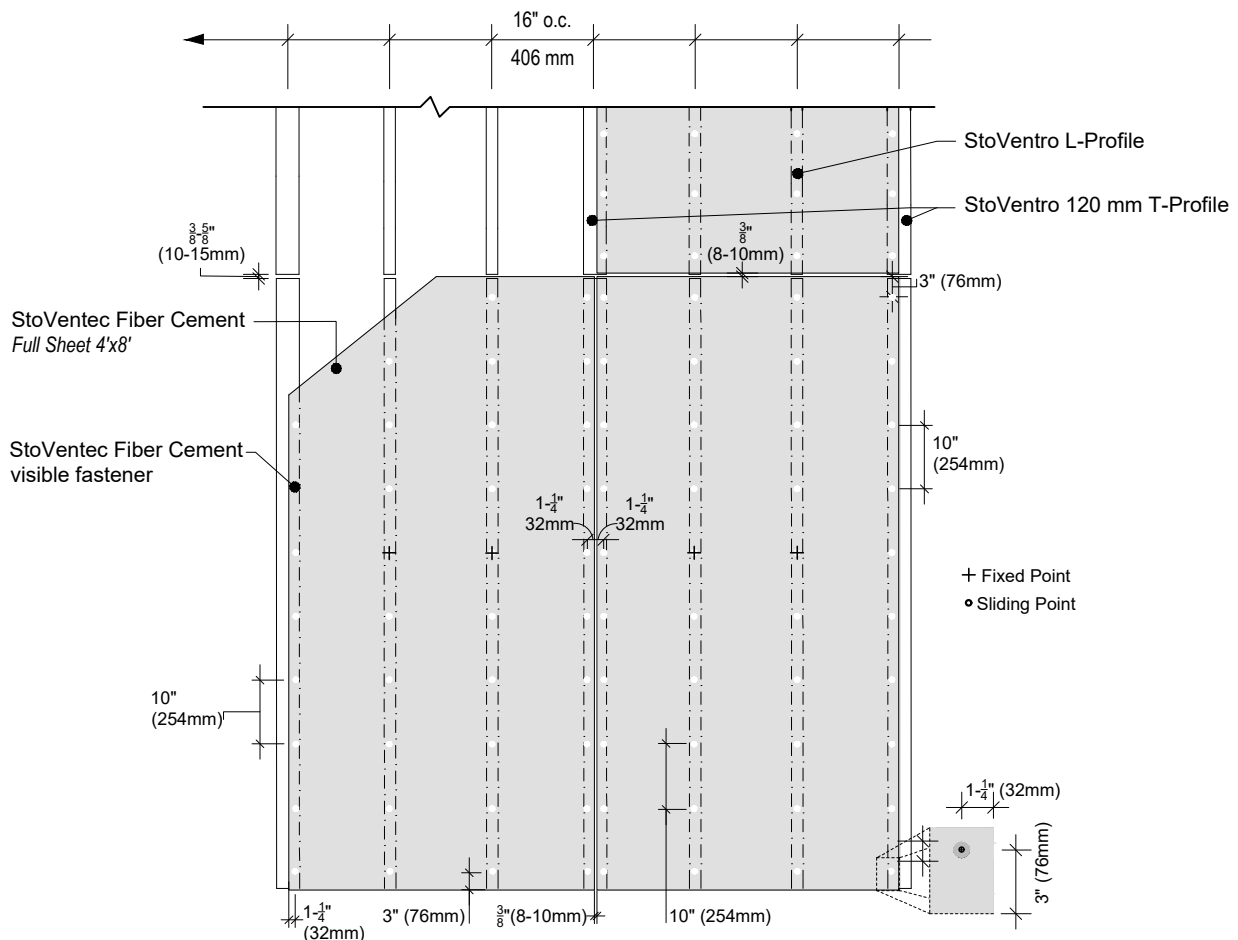
Date: August 2024

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 ($\sim\frac{3}{8}$ ").
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

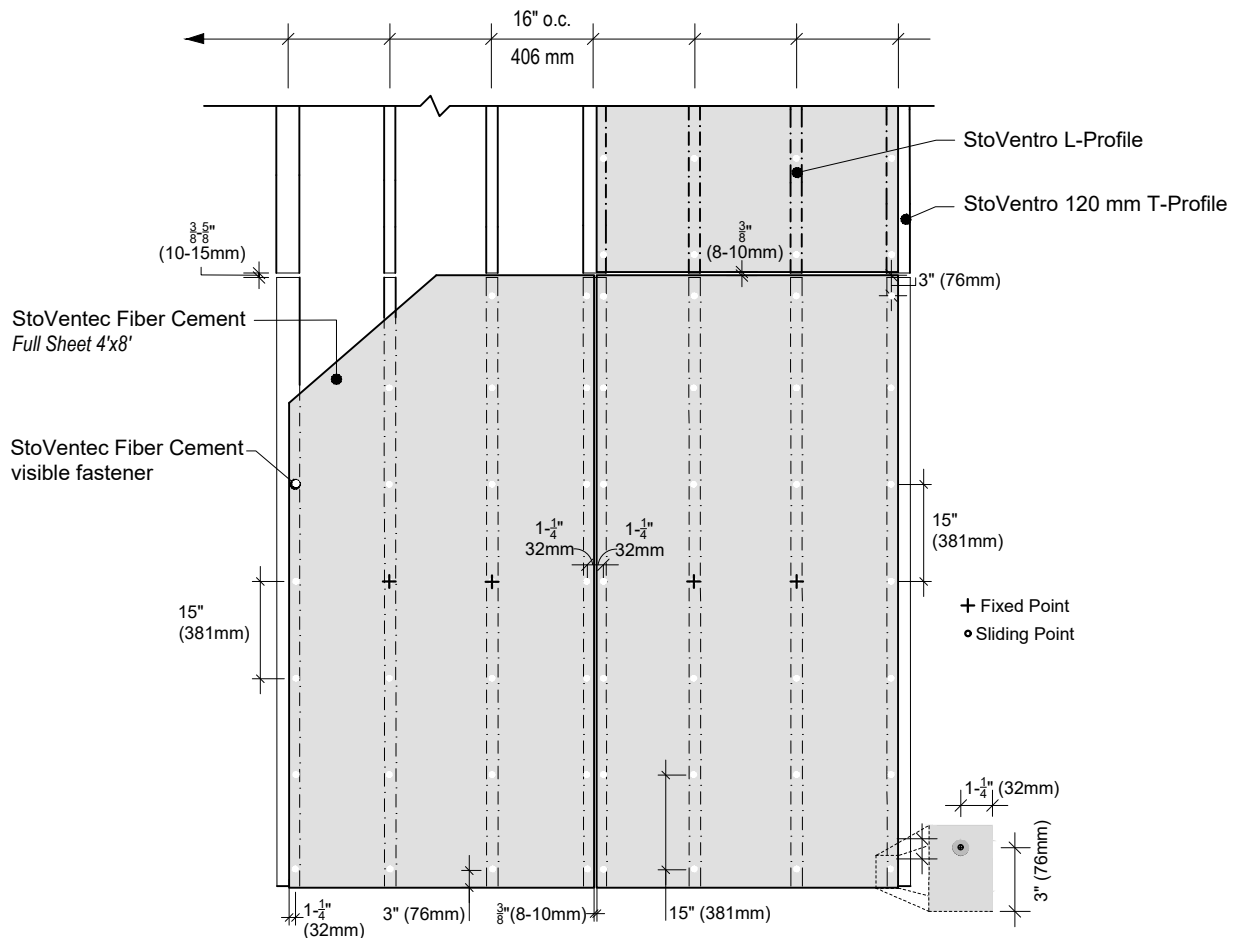
Date: August 2024

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 ($\sim\frac{3}{8}$ ").
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 (22-1/2 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

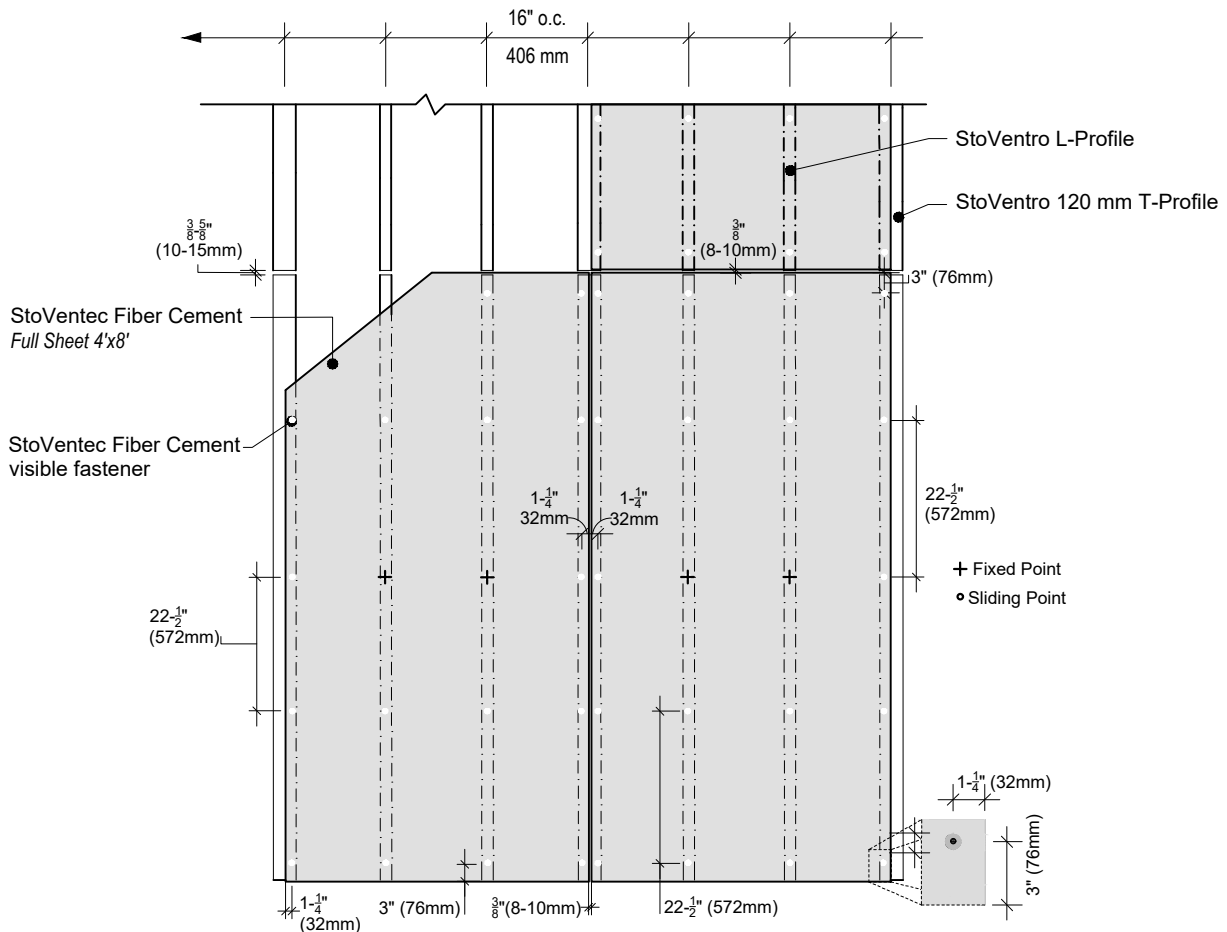
Date: August 2024

Detail No.: 90.Fc.006

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing:
-133 psf (6.38 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 ($\sim\frac{3}{8}$ ").
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

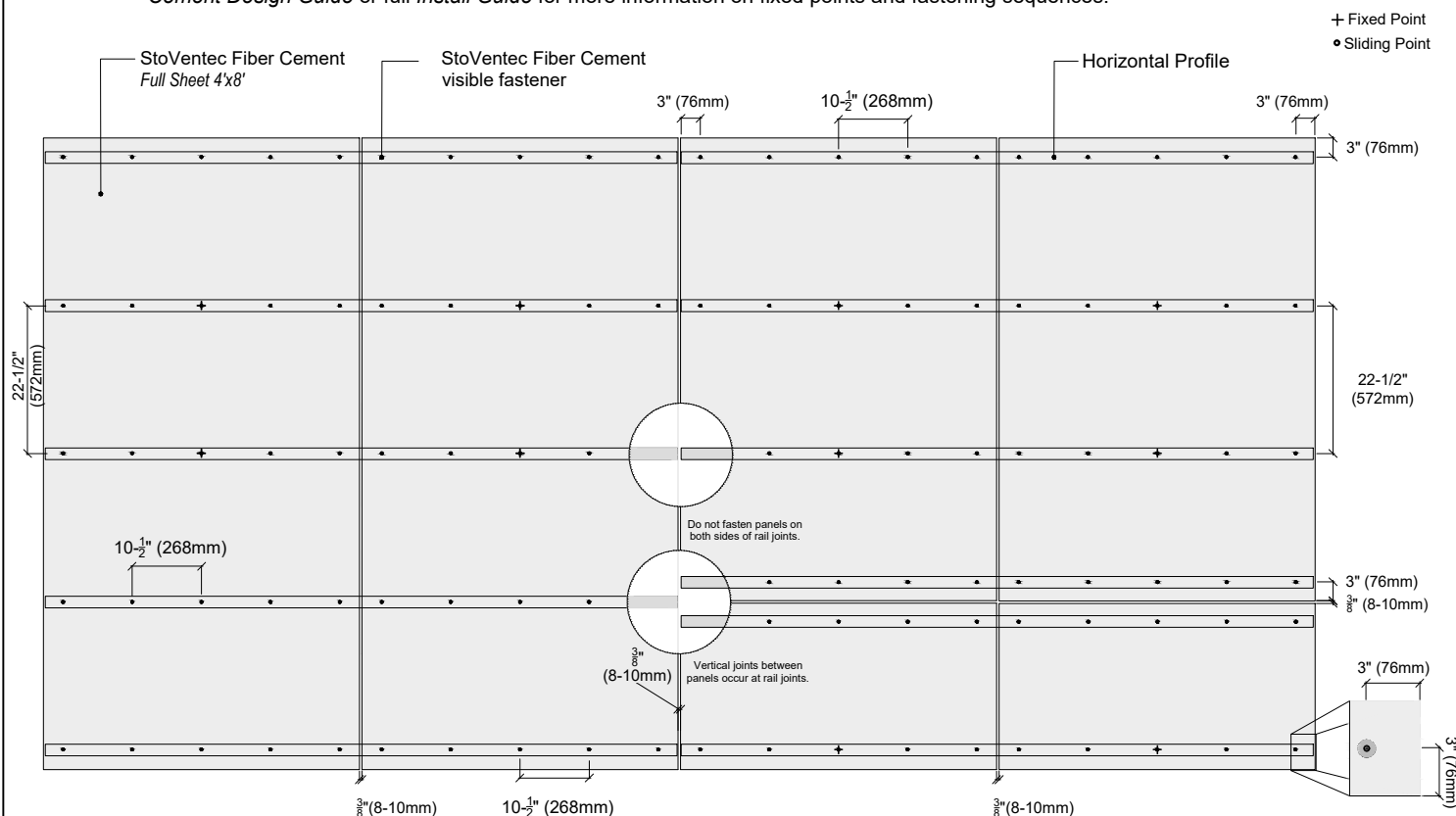
Date: August 2024

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 ($\sim\frac{3}{8}$ ").
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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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

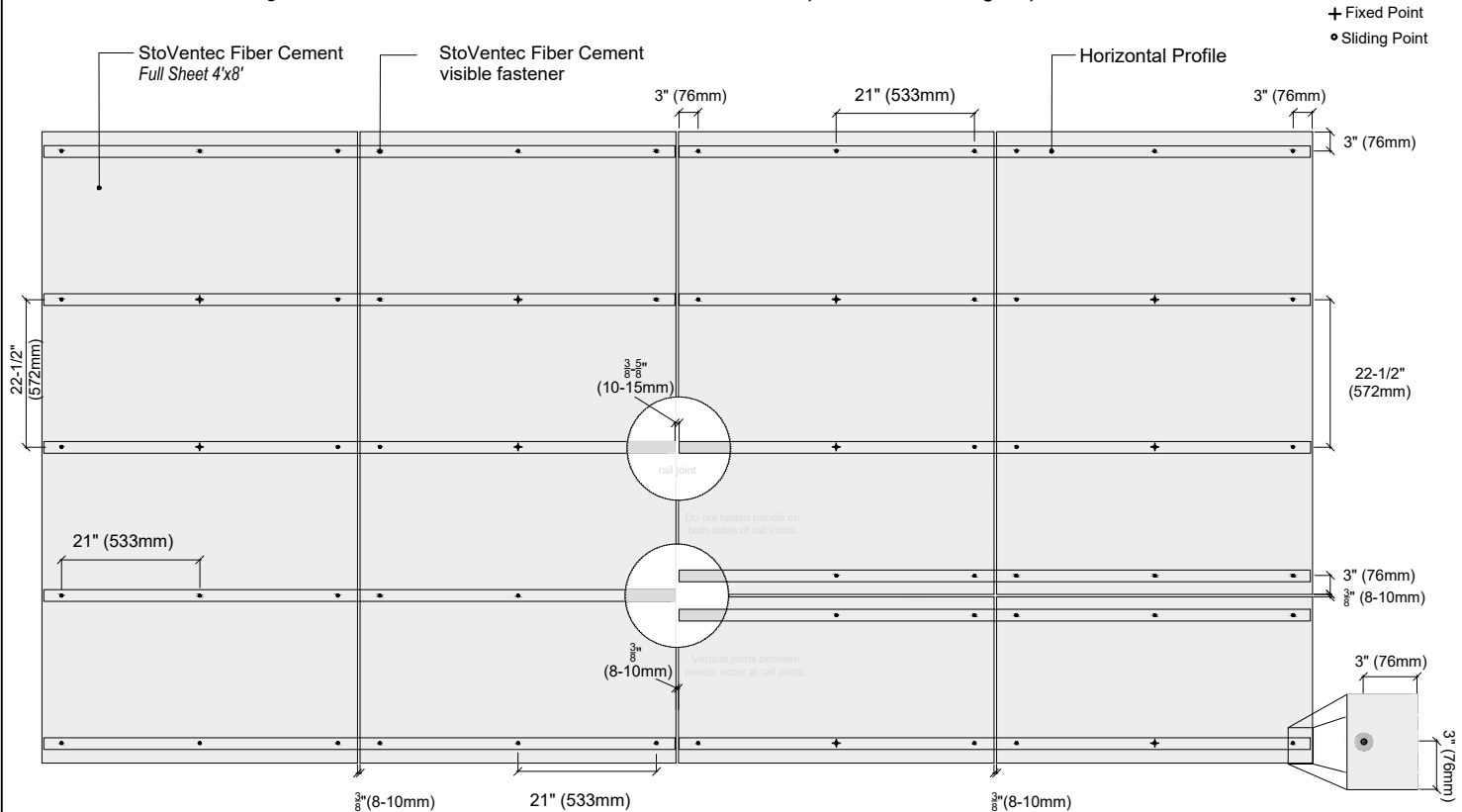
Date: August 2024

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 ($\sim\frac{3}{8}$ ").
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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StoVentec® Fiber CementHidden 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)

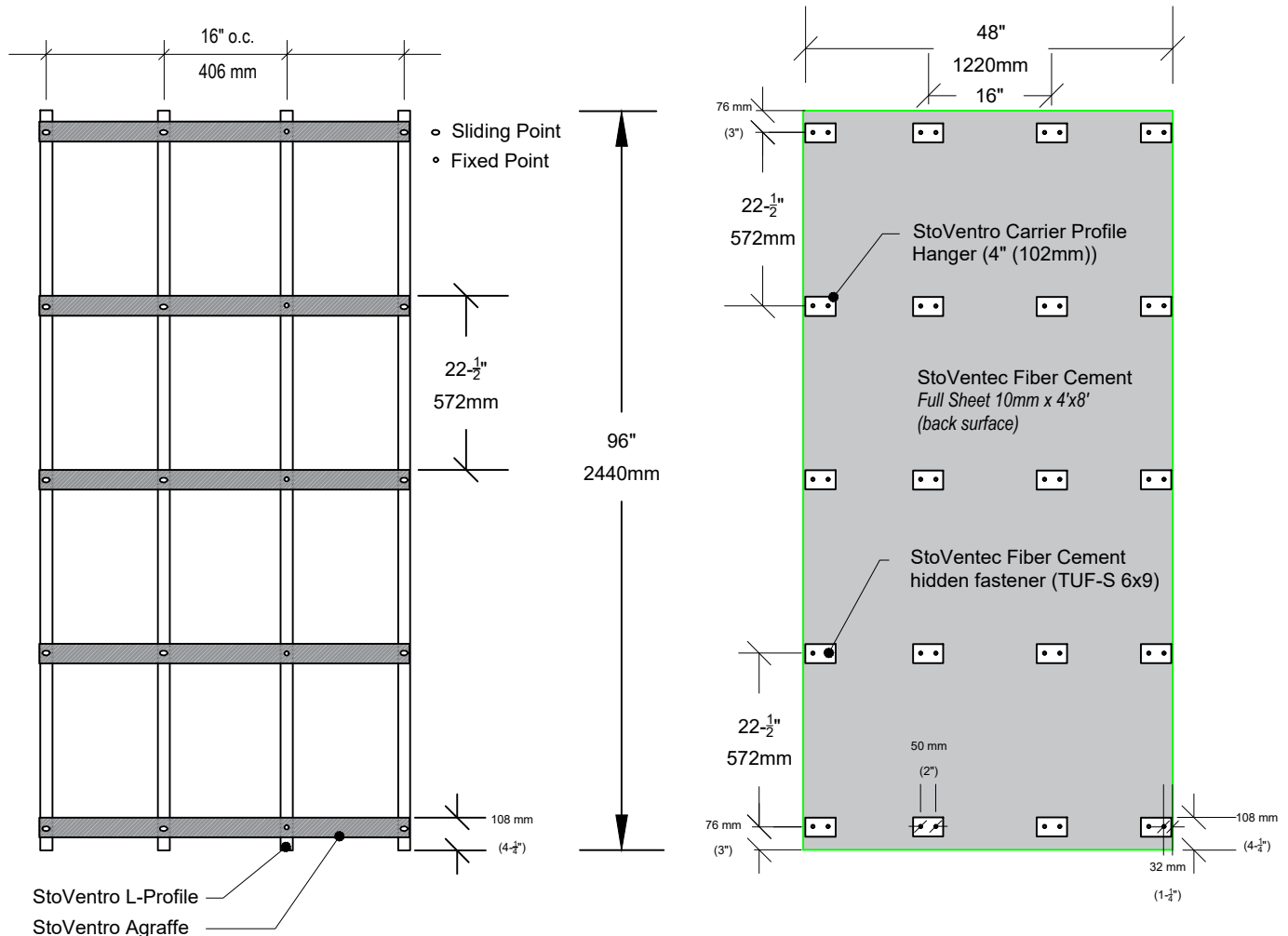
Elevation View

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:**

1. 10mm thick StoVentec Fiber Cement panels required for hidden fastening installation.
2. Horizontal and vertical joints between Ventro profiles - leave 10-15mm gap between metal ends.
3. 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.
4. Joints between panels are spaced 8-10mm (~ $\frac{3}{8}$ ").
5. Refer to the *StoVentec Fiber Cement Design Guide* or full *Install Guide* for more information on hidden fastening.

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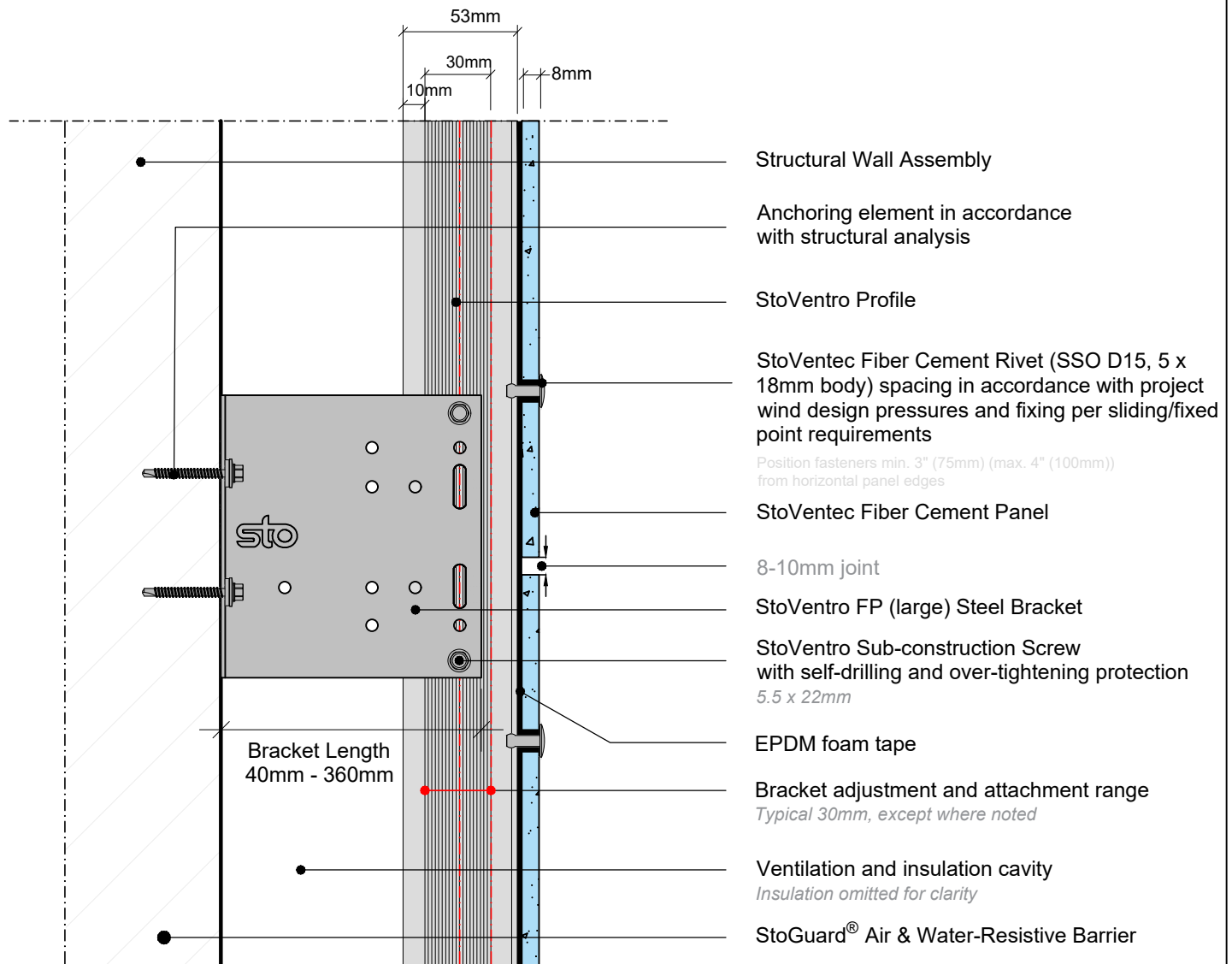
StoVentec Fiber Cement

System buildup with StoVentro Sub-construction Steel Brackets

Section View

Date: November 2024

Detail No.: 90.Fc.20



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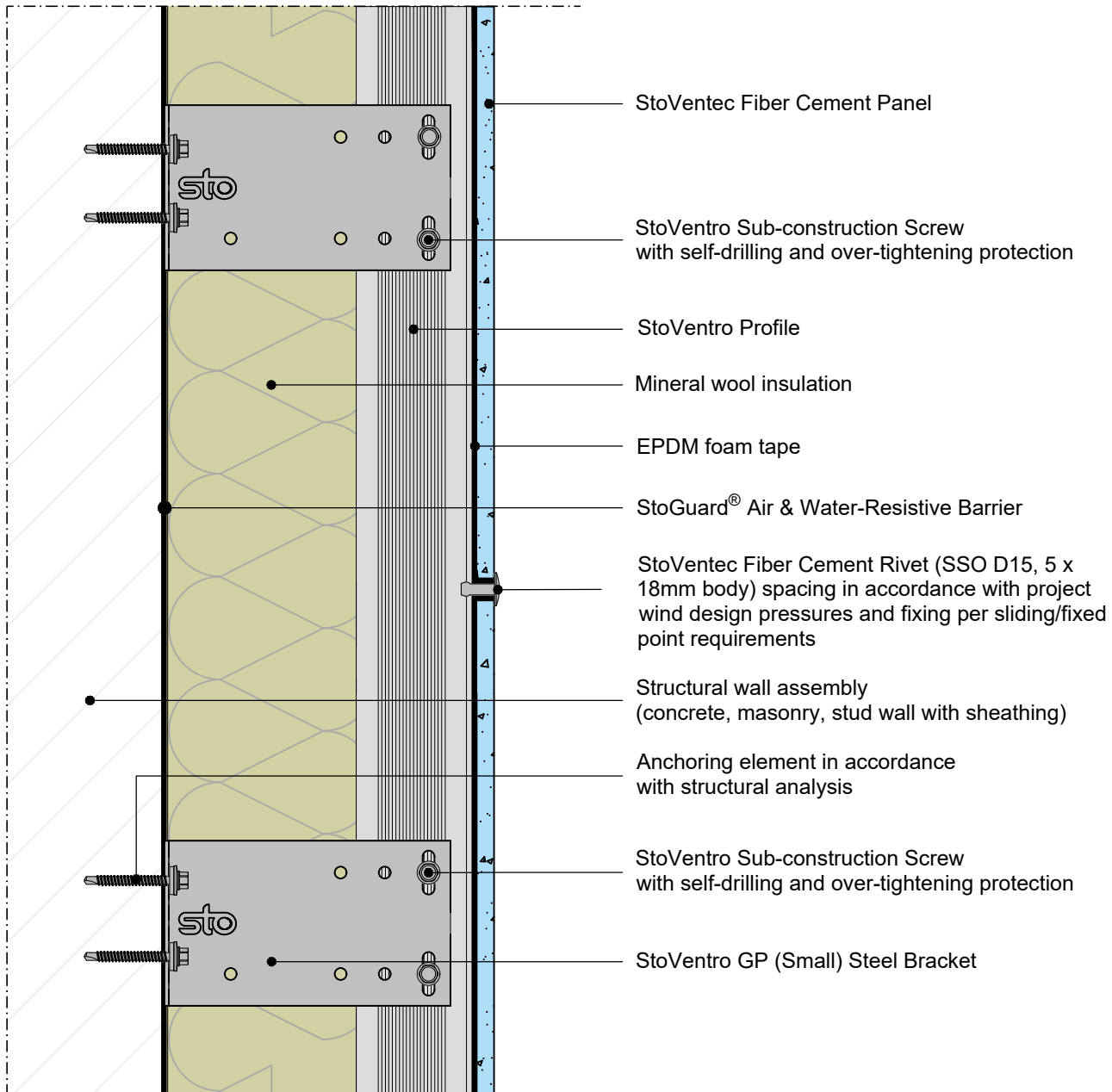
StoVentec Fiber Cement panel installation

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

Date: November 2024

Section View

Detail No.: 90.Fc.022



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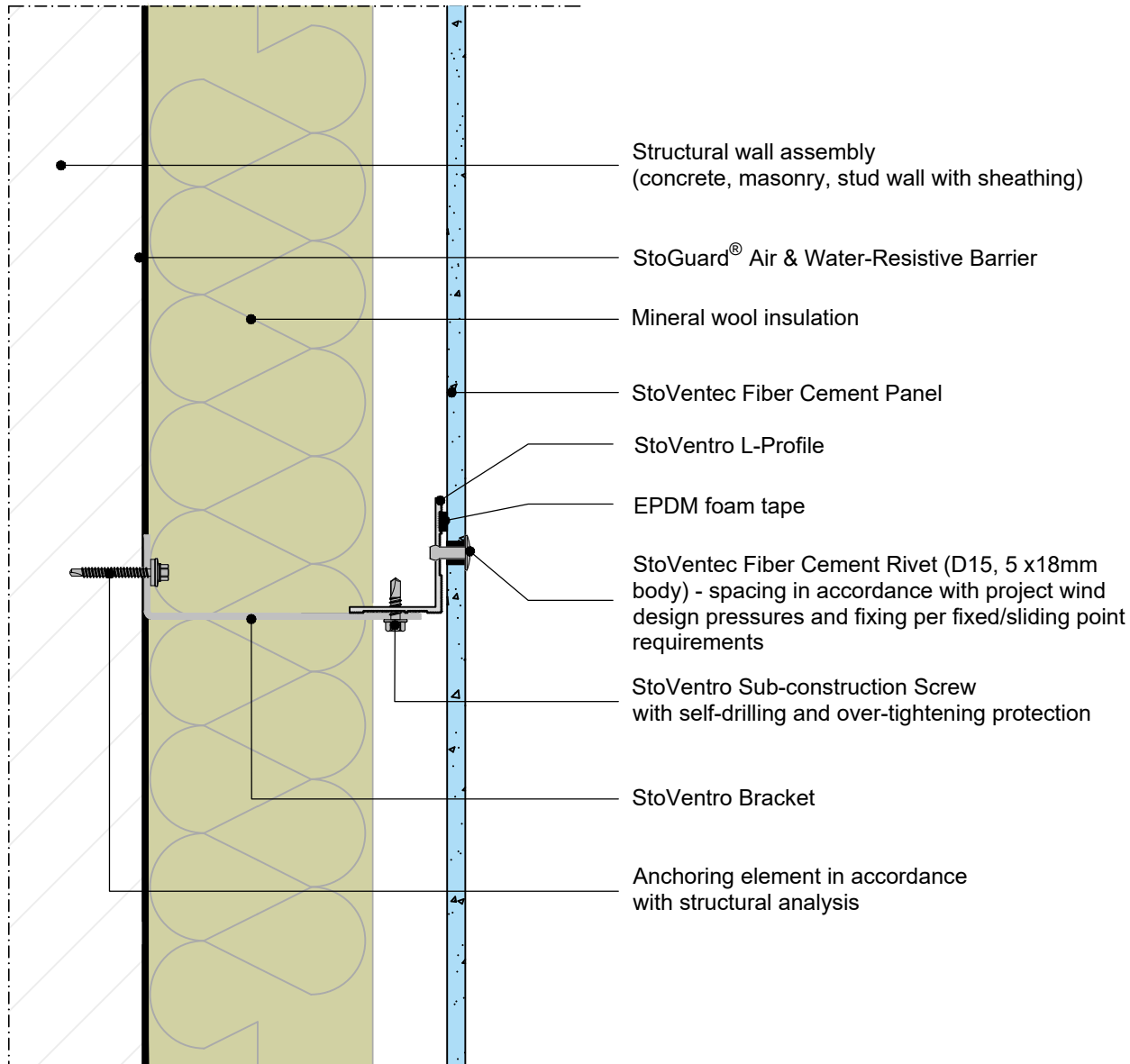
StoVentec Fiber Cement Panel Installation

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

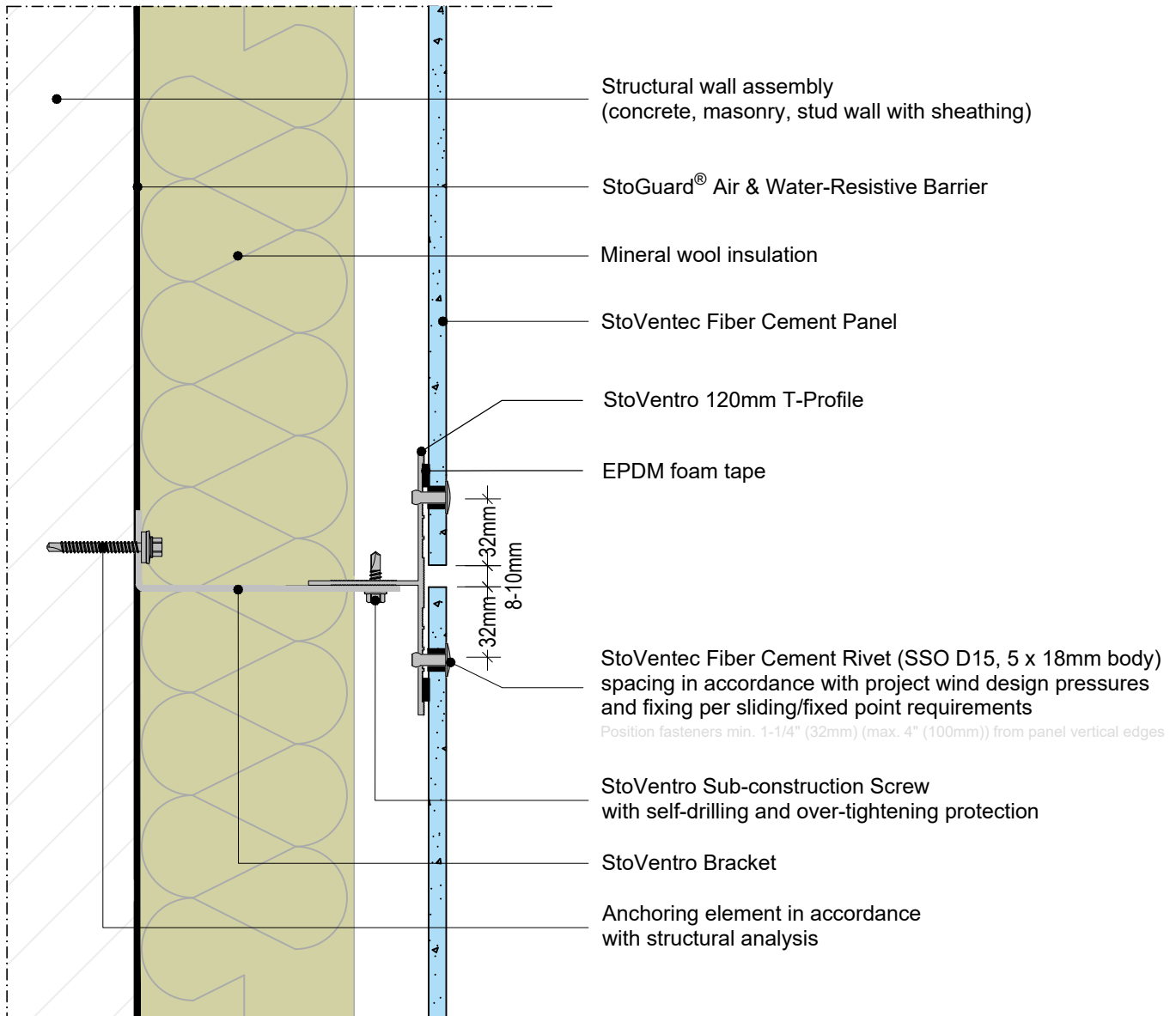
Vertical joint at T-Profile

StoVentro™ Sub-Construction System

Plan View

Date: November 2024

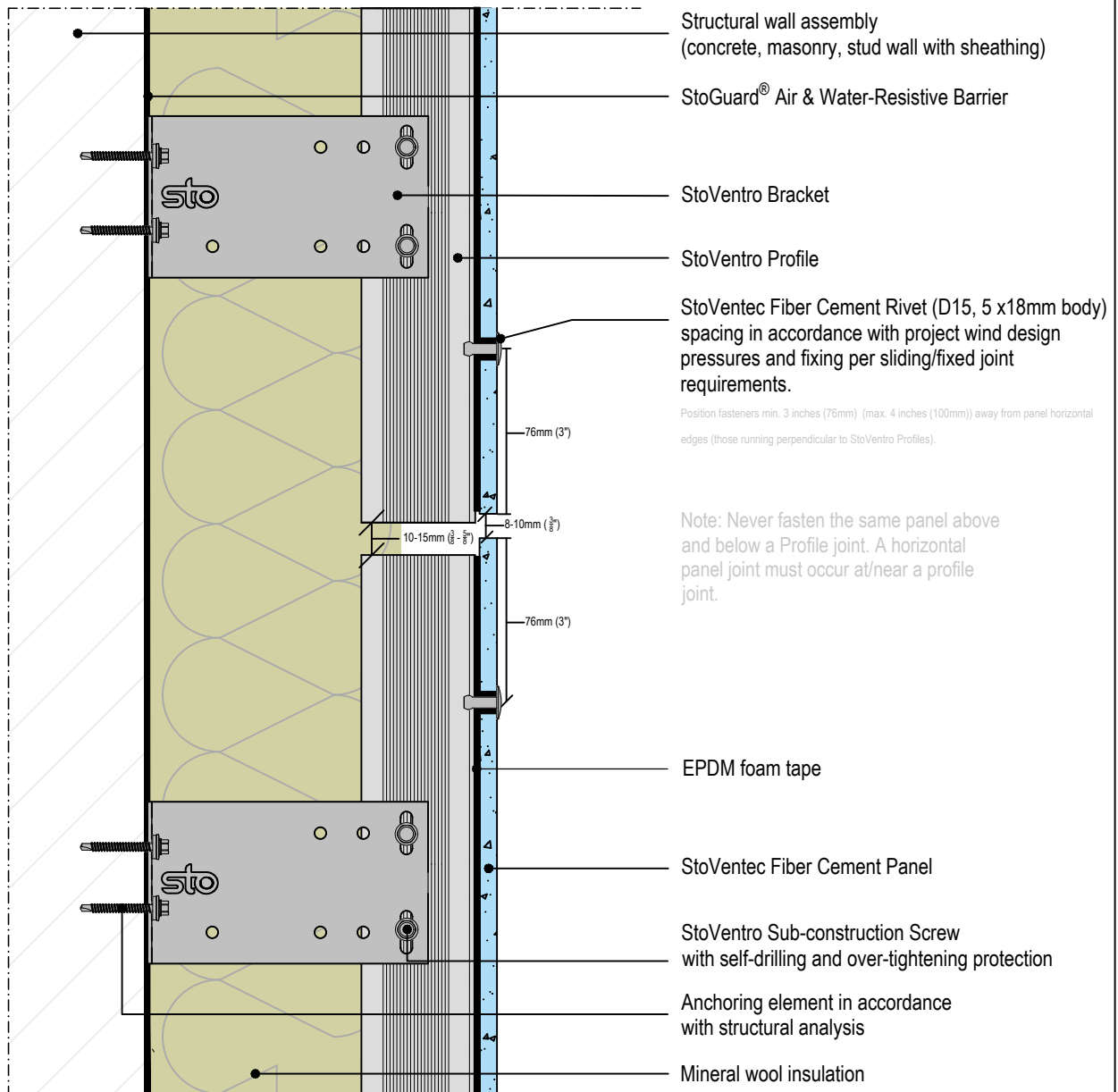
Detail No.: 90.Fc.032



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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****ATTENTION**

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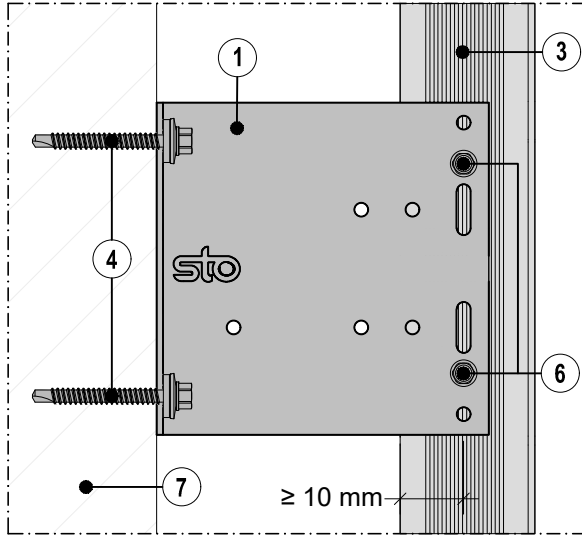
StoVentro™ Sub-Construction System

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

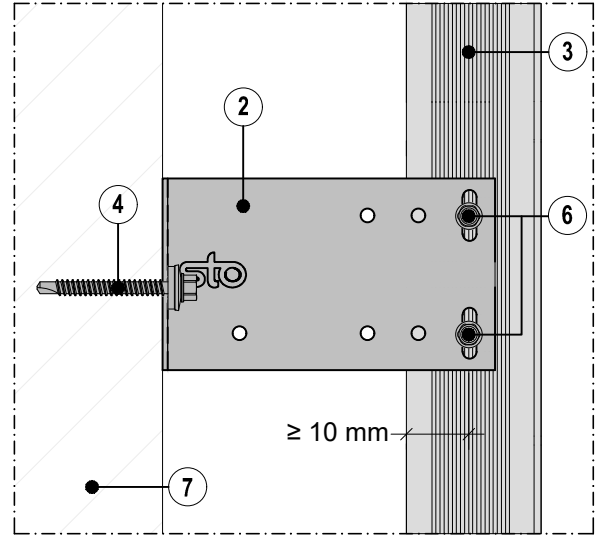
Section View

Date: January 2024

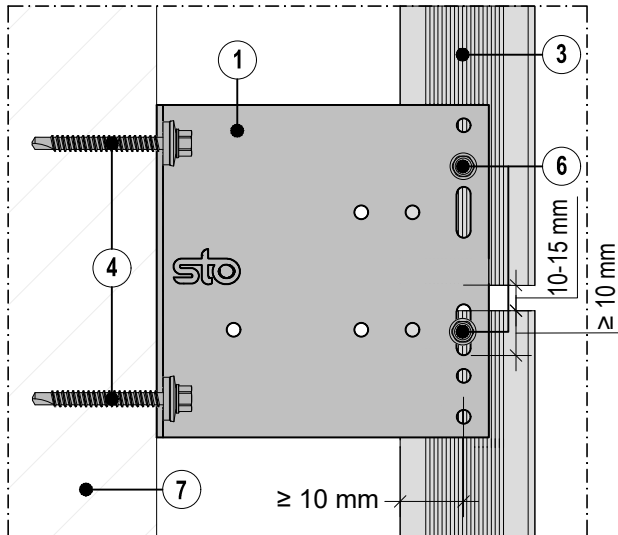
Detail No.: 90.Sc.045



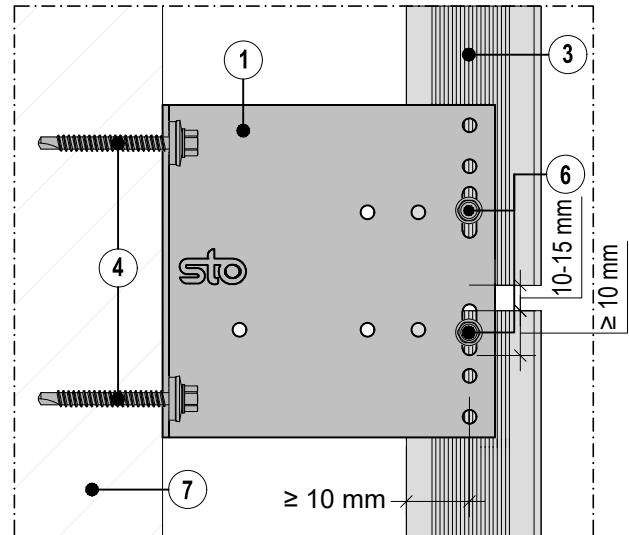
StoVentro™ Bracket - Large (FP) | Fixed point fastening



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
④ Anchoring element in accordance with structural analysis

② StoVentro™ Steel Bracket Small (GP)

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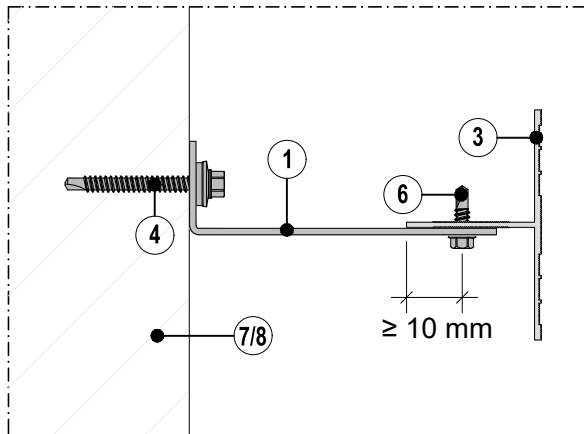
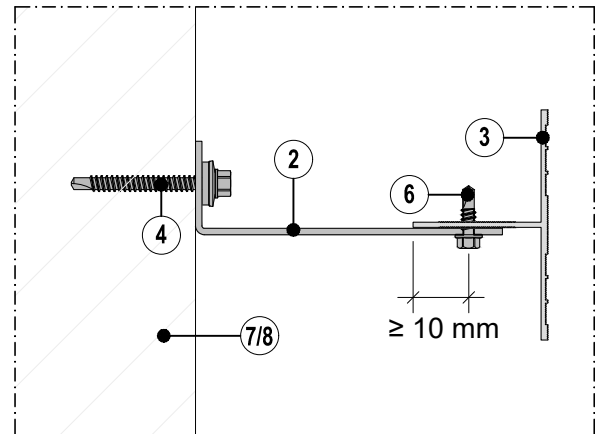
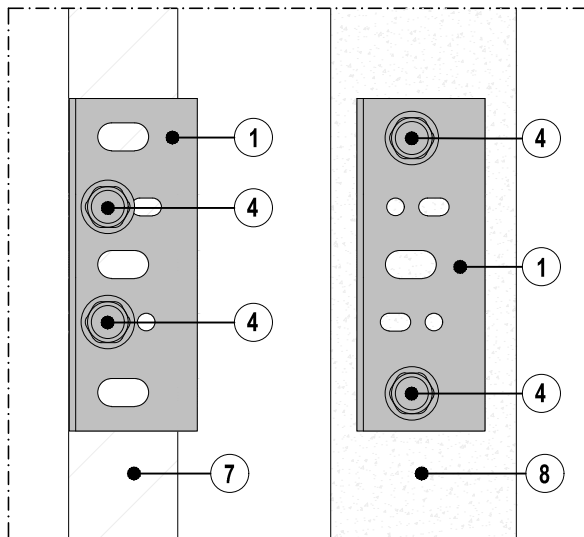
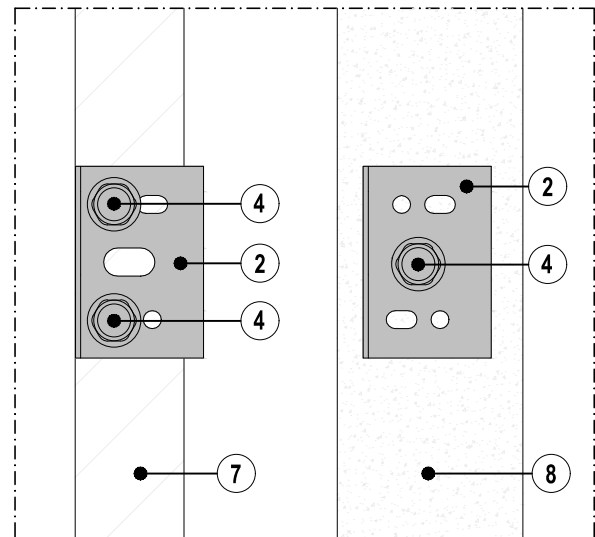
StoVentro™ Sub-Construction SystemStoVentro™ Steel Brackets - Large (FP) and Small (GP)
attachment locations

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 AttachmentStoVentro™ Bracket - Small (GP)
Plan View AttachmentStoVentro™ Bracket - Large (FP)
Elevation View AttachmentStoVentro™ Bracket - Small (GP)
Elevation View Attachment① StoVentro™ Steel
Bracket Large (FP)

③ StoVentro™ T-Profile

② StoVentro™ Steel
Bracket Small (GP)④ Anchoring element in accordance
with structural analysis⑥ StoVentro™ Sub-construction Screw with self-drilling
and over-tightening protection (5.5 x 22 mm)

⑦ Structural wall assembly (stud wall with sheathing)

⑧ Structural wall assembly (concrete and masonry)

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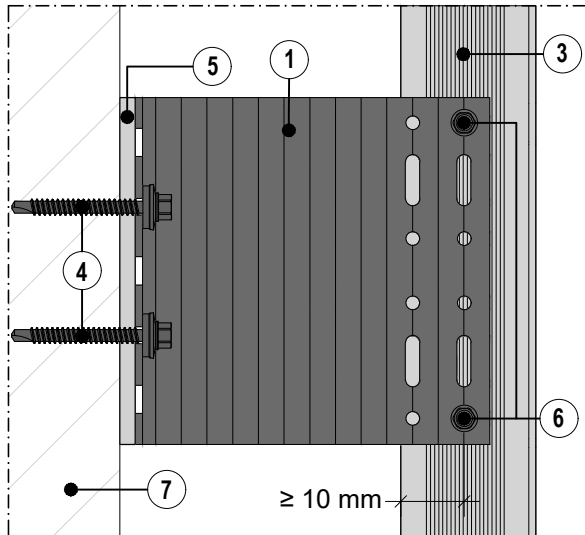
StoVentro™ Sub-Construction System

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

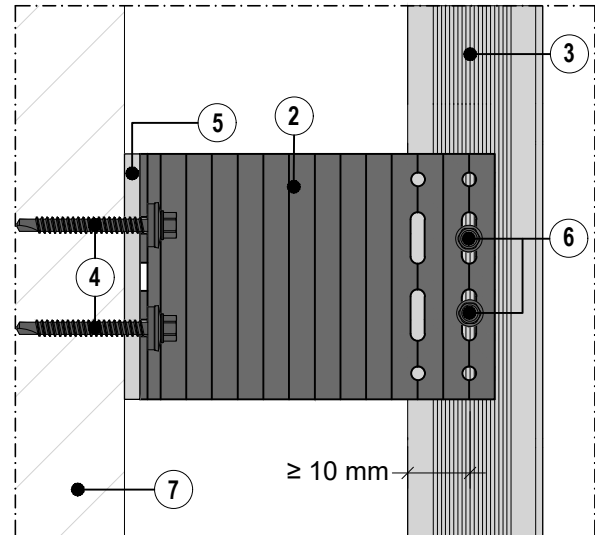
Section View

Date: May 2021

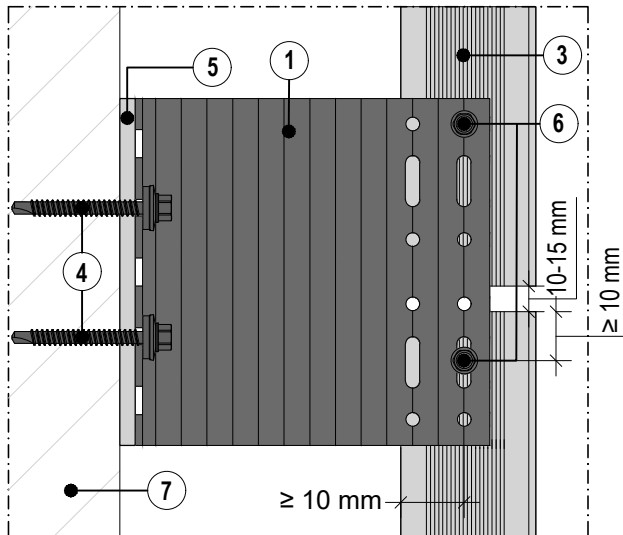
Detail No.: 90.Sc.047



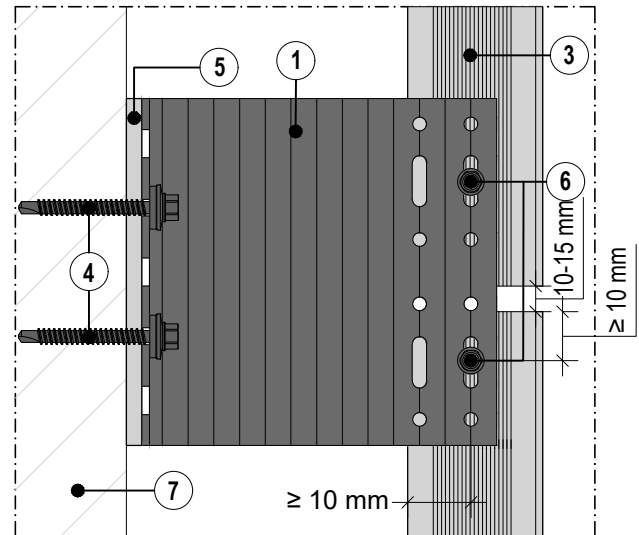
StoVentro™ ALUM Bracket - Large (FP) | Fixed point fastening



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)

② StoVentro™ ALUM Bracket Small (GP)

③ StoVentro™ T-Profile

④ Anchoring element in accordance with structural analysis

⑤ StoVentro™ Thermal Blocking Element

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

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

Note: All values are subject to structural analysis.

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StoVentro™ Sub-Construction System

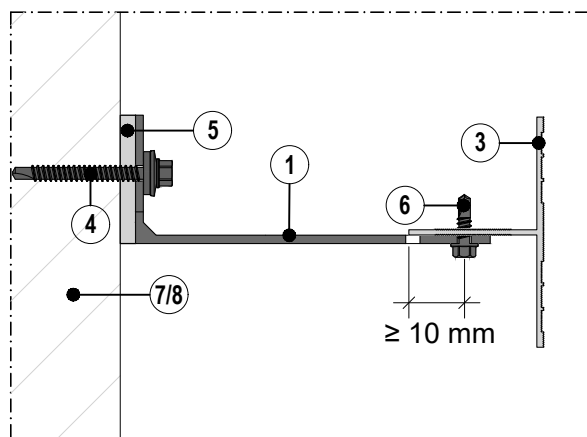
StoVentro™ Aluminum Brackets - Large (FP) and Small (GP) attachment locations

Elevation & Plan Views

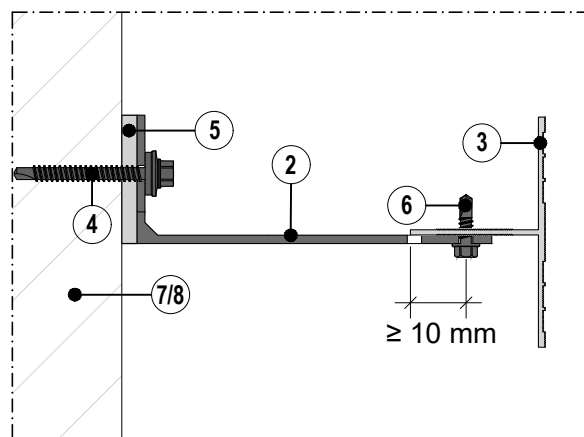
Date: May 2021

Detail No.: 90.Sc.048

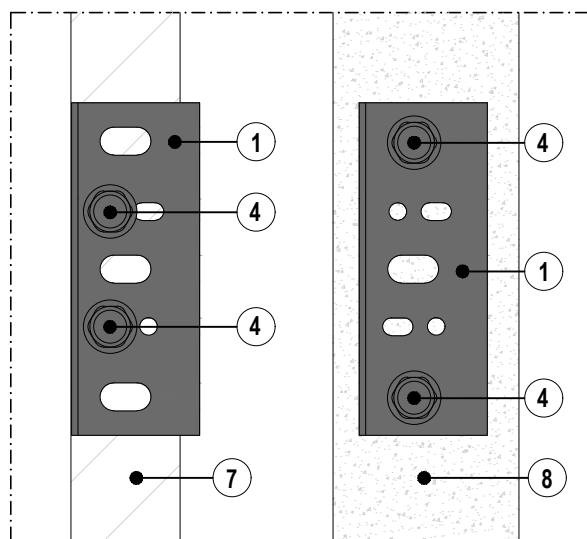
Note: All values are subject to structural analysis.



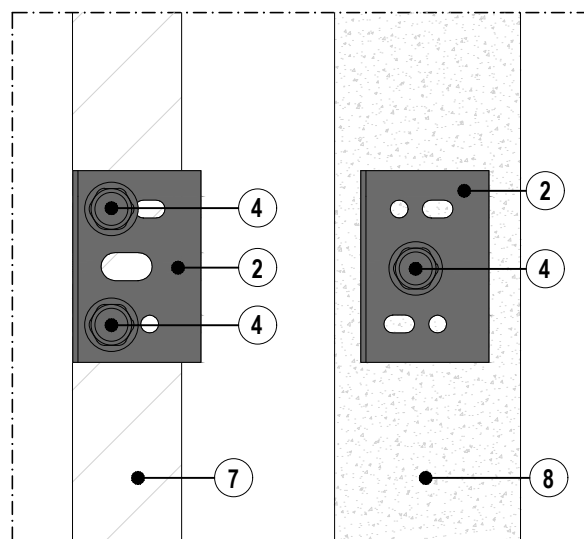
StoVentro™ ALUM Bracket - Large (FP)
Plan View Attachment



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

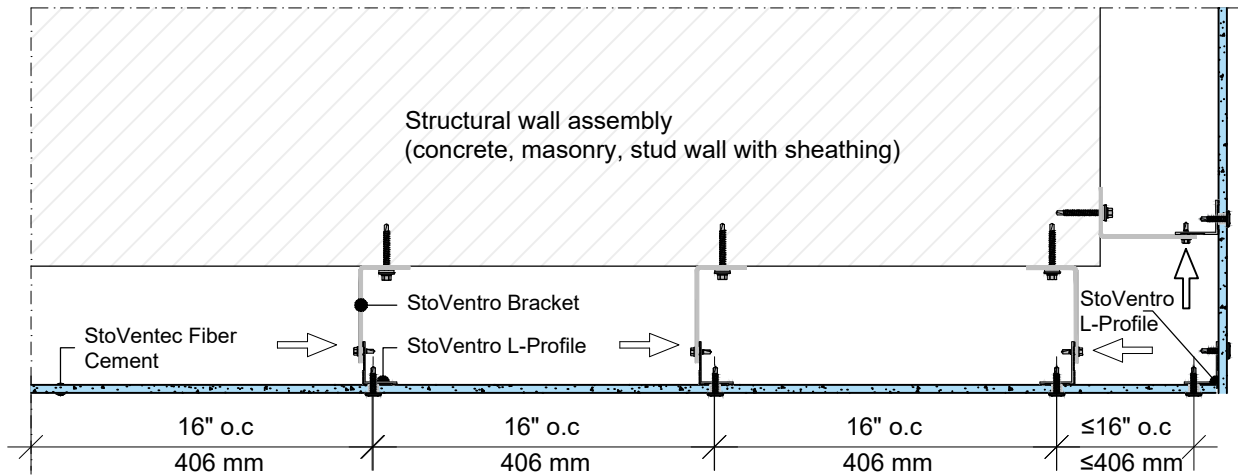
StoVentro™ Sub-construction Installation at outside corners, jambs, returning transitions, and transitions to alternative cladding

Plan View

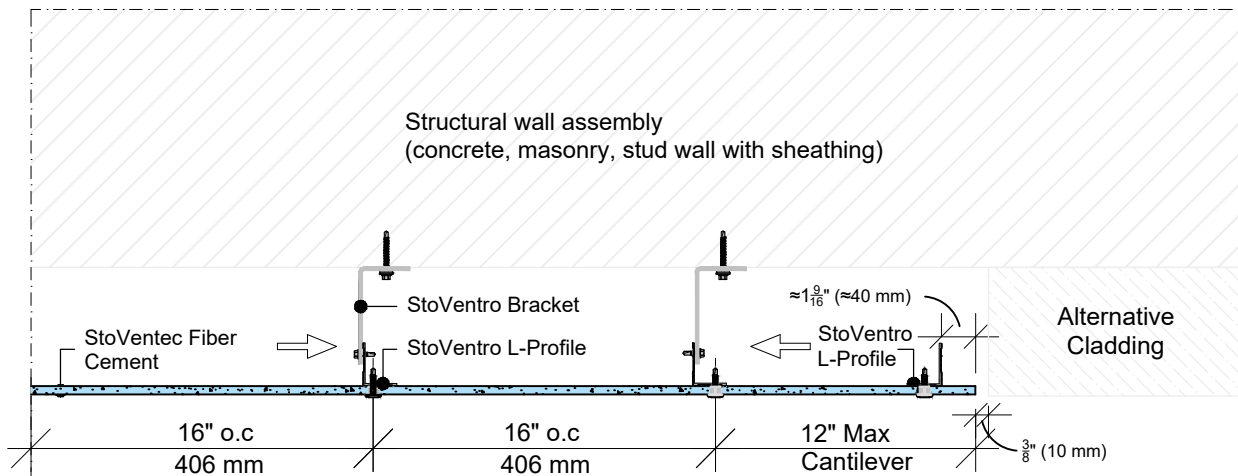
Date: August 2024

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

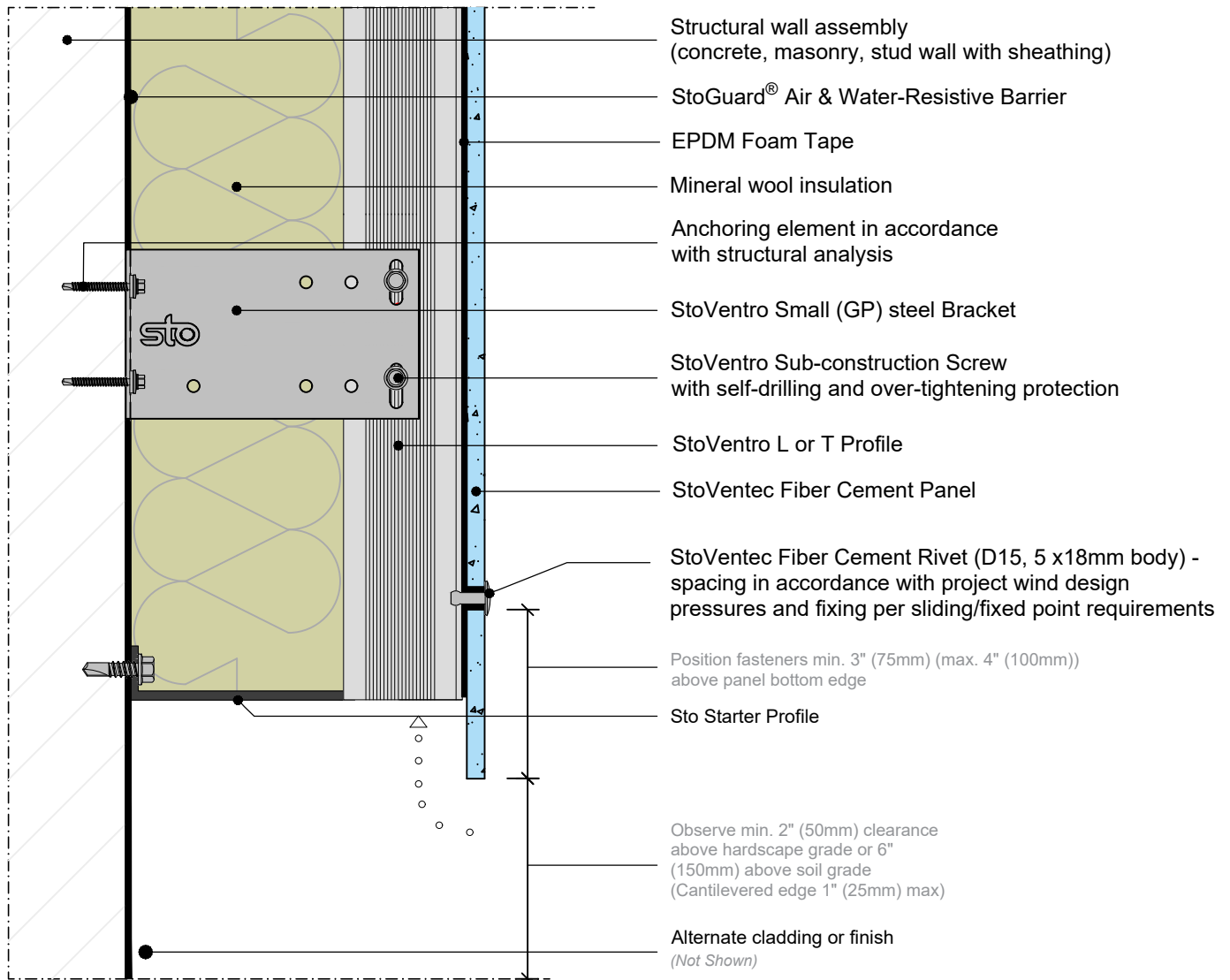
StoVentro™ Sub-Construction System

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

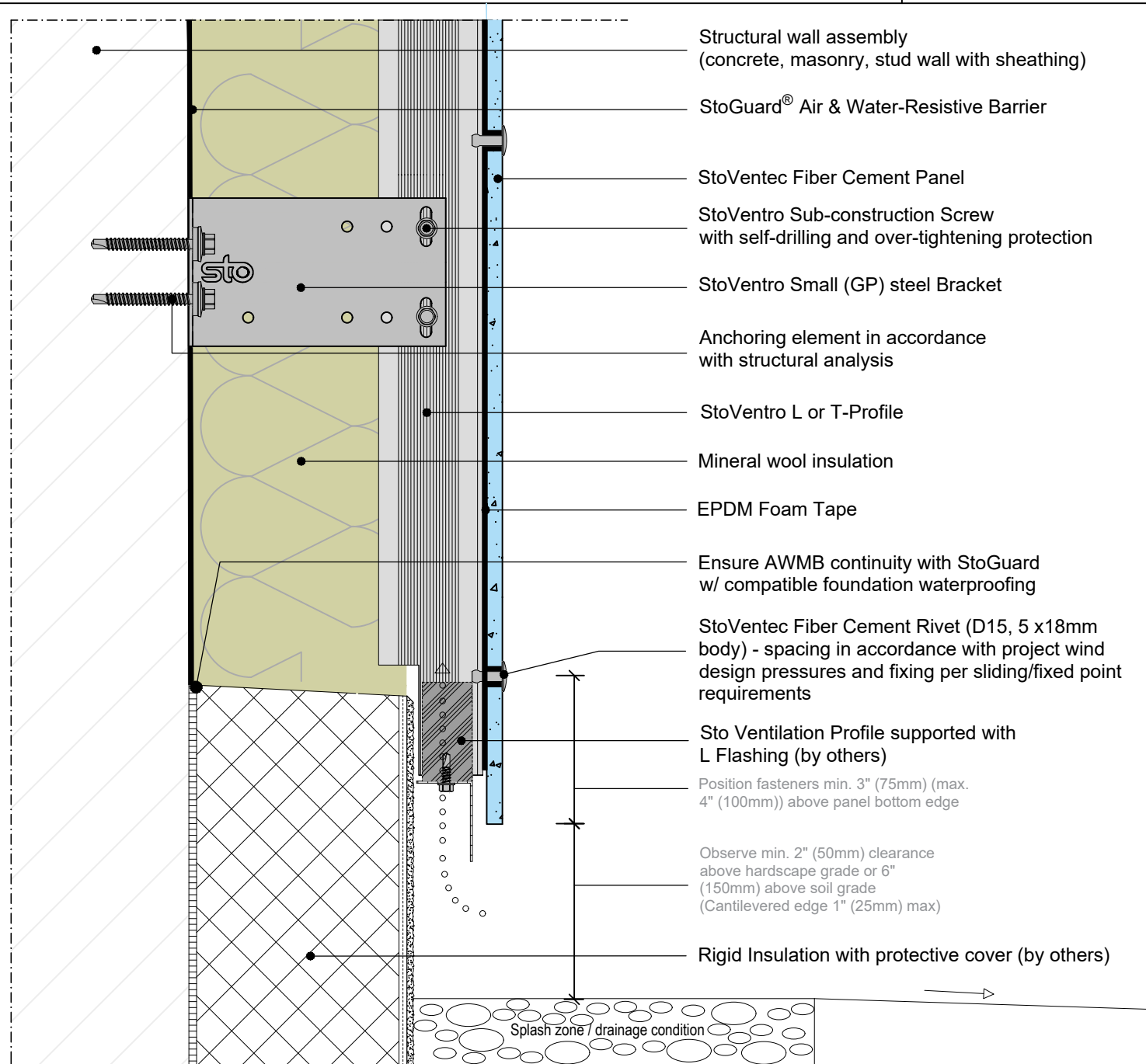
StoVentro™ Sub-Construction System

Installation at grade with Sto Ventilation Profile

Section View

Date: November 2024

Detail No.: 90.Sc.065



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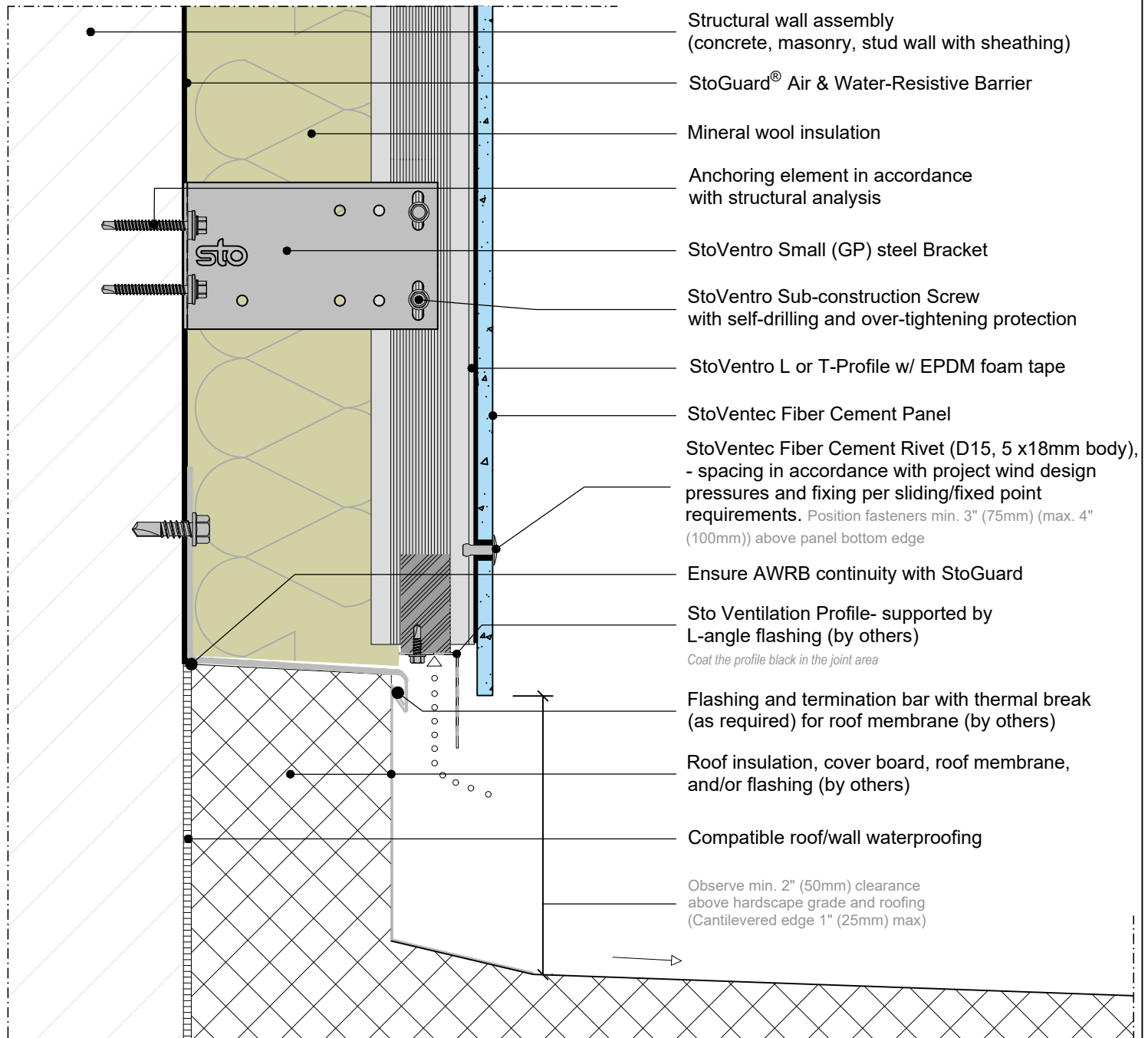
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StoVentec Fiber Cement StoVentro™ Sub-Construction System Installation at Roofline with Sto Ventilation Profile

Section View

Date: November 2024

Detail No.: 90.Fc.150

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StoVentec Fiber Cement

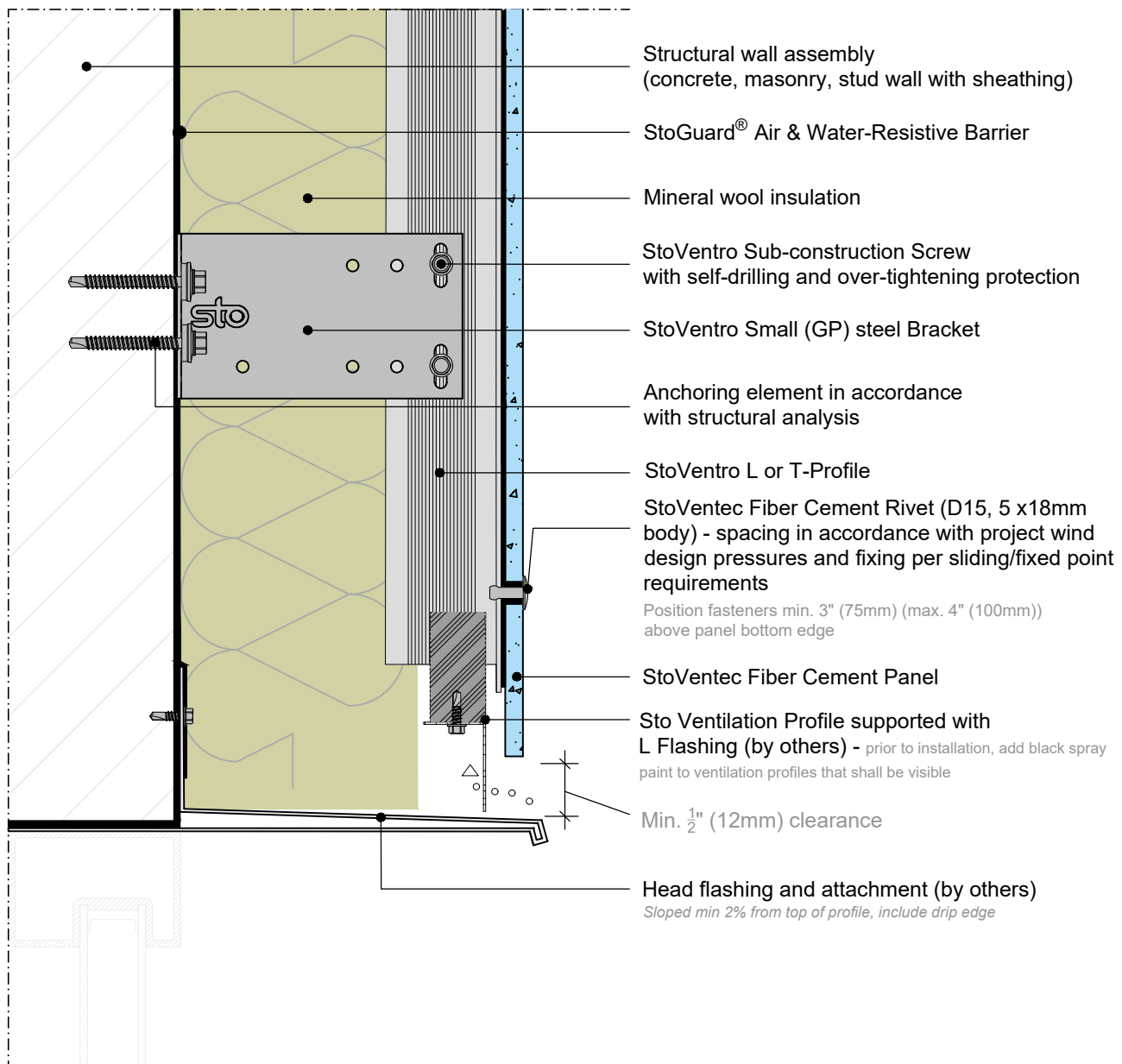
StoVentro™ Sub-Construction System

Installation at Window Head with head flashing and Ventilation Profile

Section View

Date: November 2024

Detail No.: 90.Fc.080

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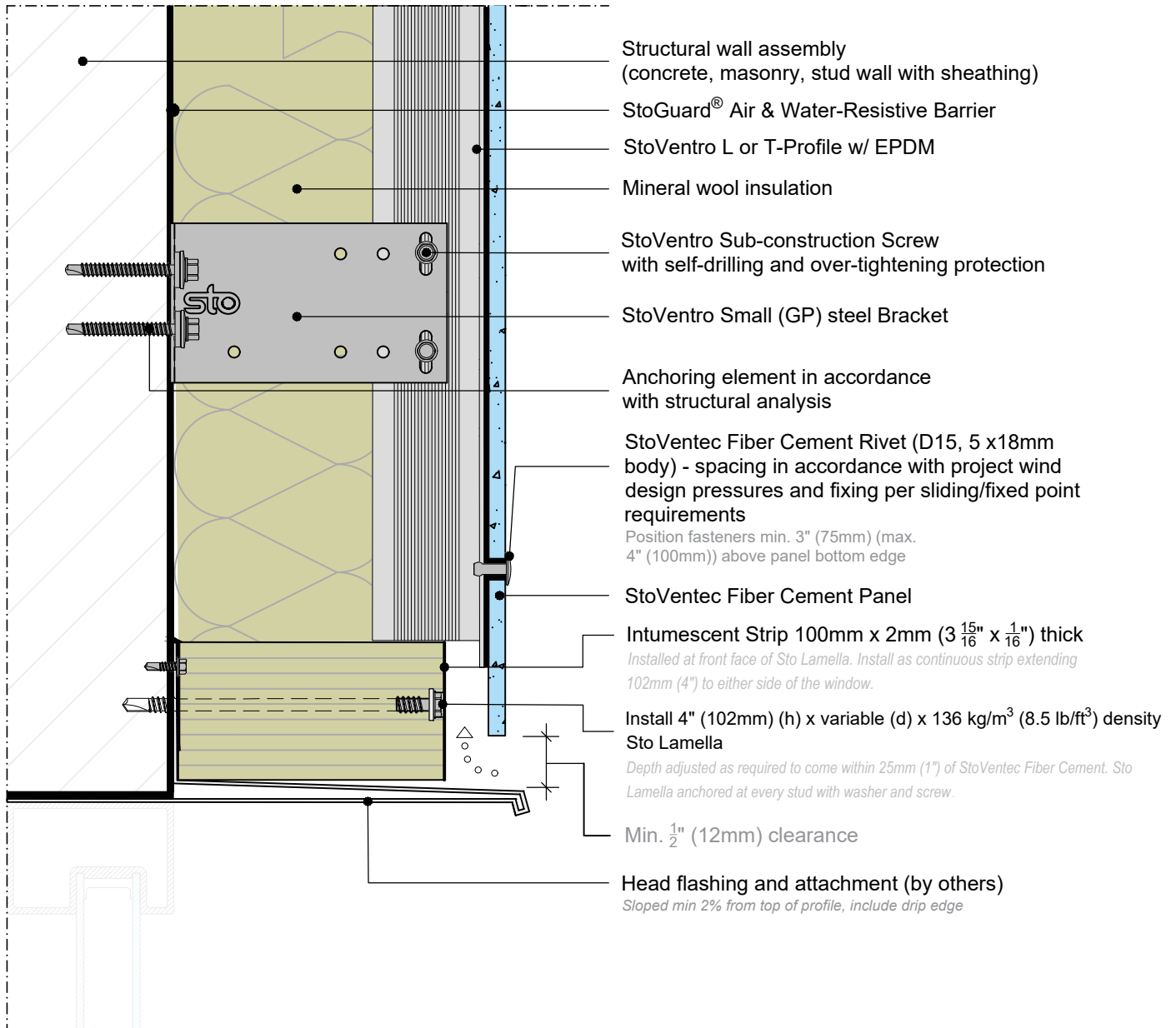
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StoVentec Fiber Cement**StoVentro™ Sub-Construction System****Fire protection at Window Head with Sto Lamella and Intumescent Tape**

Section View

Date: November 2024

Detail No.: 90.Fc.082

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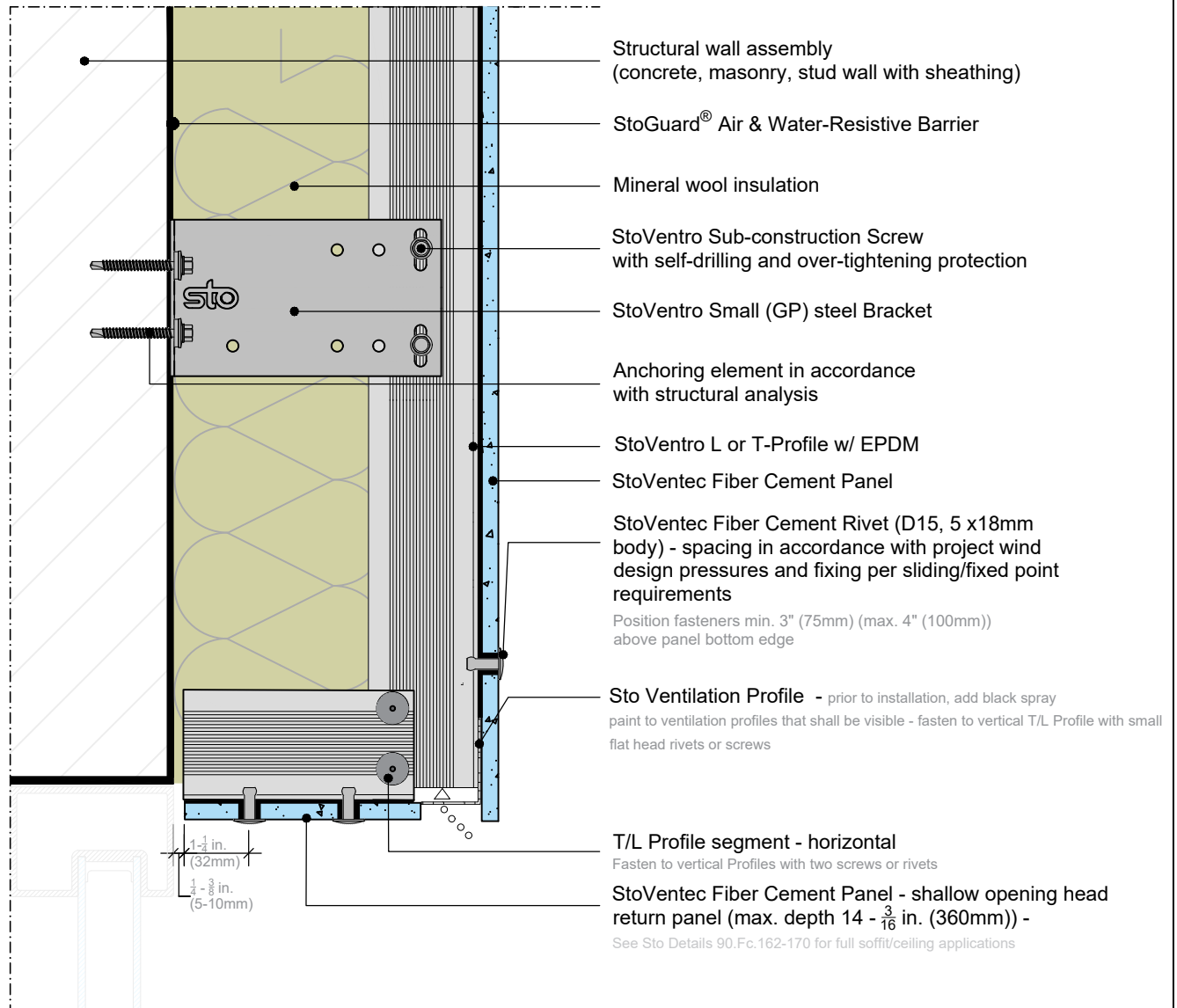
StoVentec Fiber Cement**StoVentro™ Sub-Construction System**

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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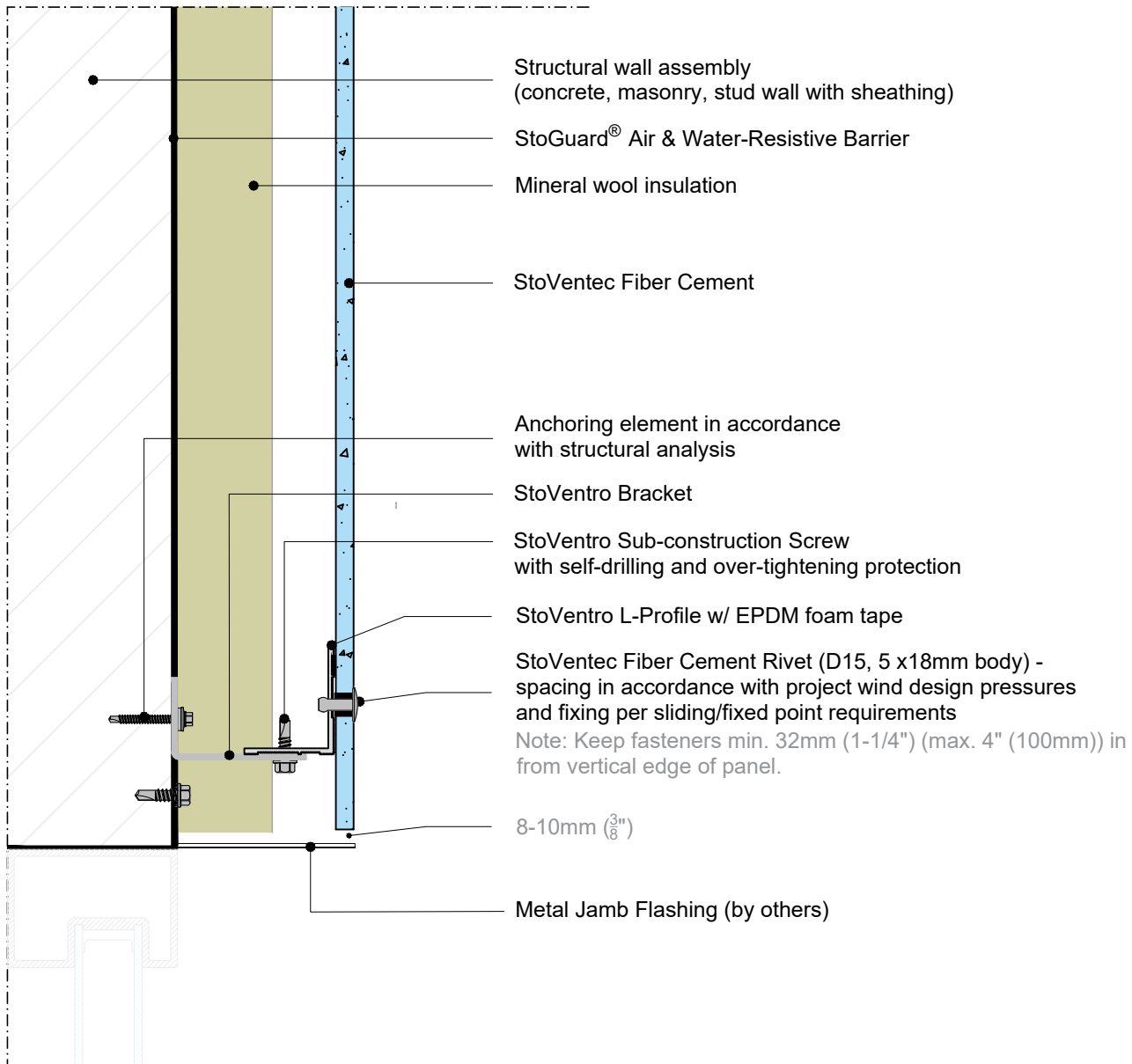
StoVentec® Fiber Cement**StoVentro Sub-construction**

Window Jamb - Metal Return

Plan View

Date: November 2024

Detail No.: 90.Fc.086

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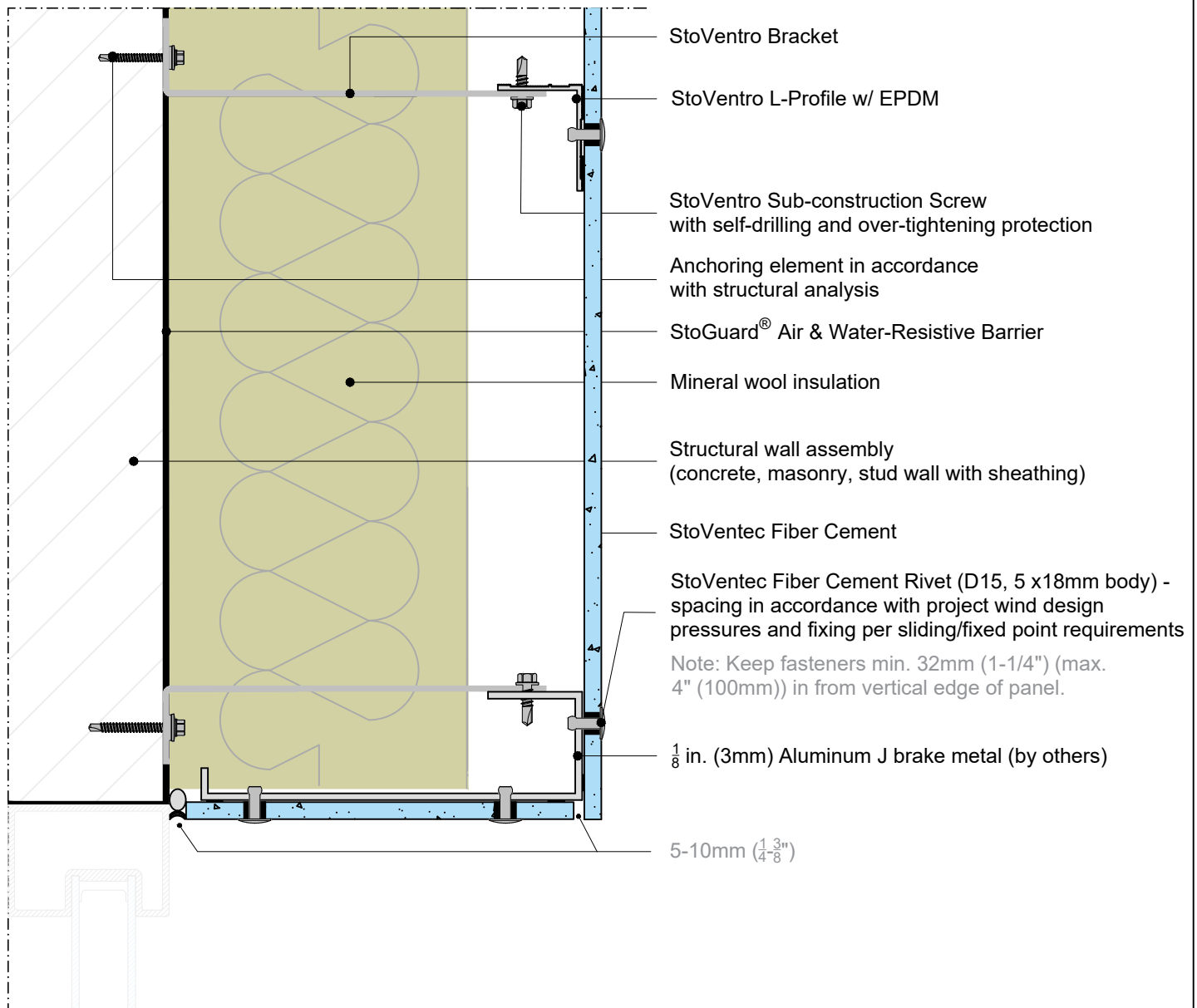
StoVentec® Fiber Cement**StoVentro Sub-construction**

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

Plan View

Date: November 2024

Detail No.: 90.Fc.088

**ATTENTION**

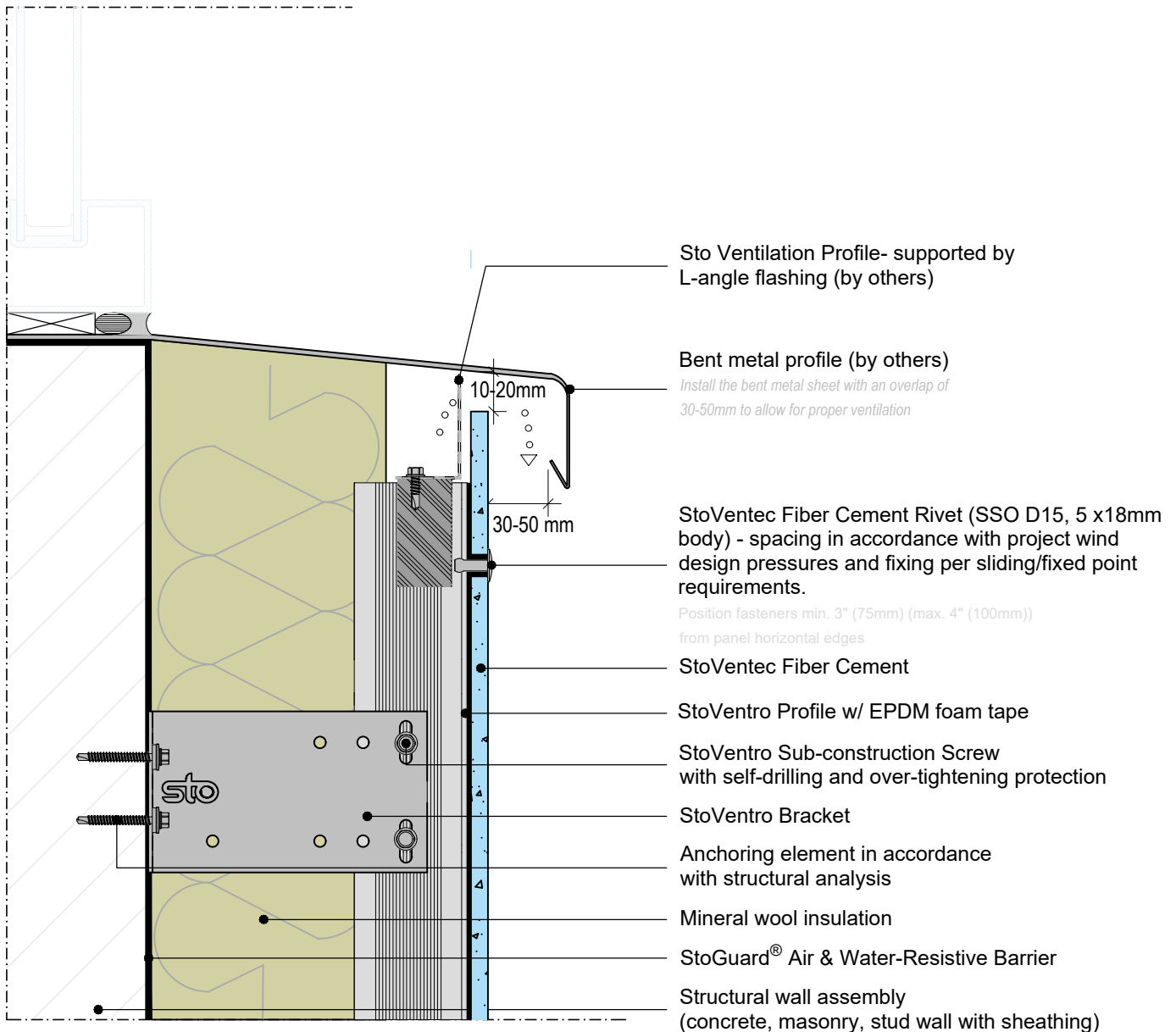
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StoVentec® Fiber Cement**StoVentro Sub-construction**Window Sill with Sto Ventilation Profile
Section View

Date: November 2024

Detail No.: 90.Fc.090

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StoVentec Fiber Cement

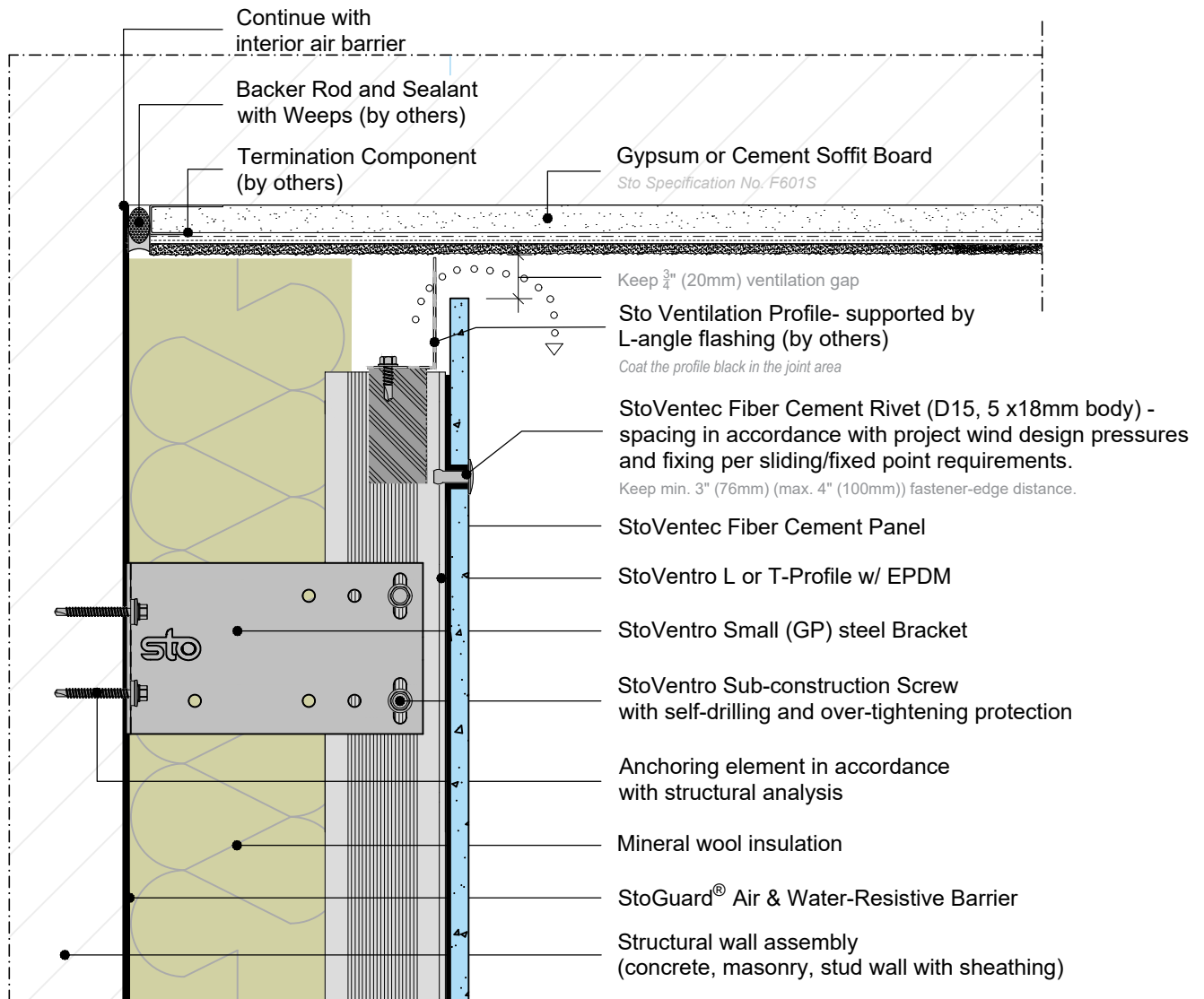
Termination under Soffit or Ceiling Installation - Not Insulated (Unconditioned)
StoVentro and Sto Direct-applied Finish System for Soffits and Ceilings

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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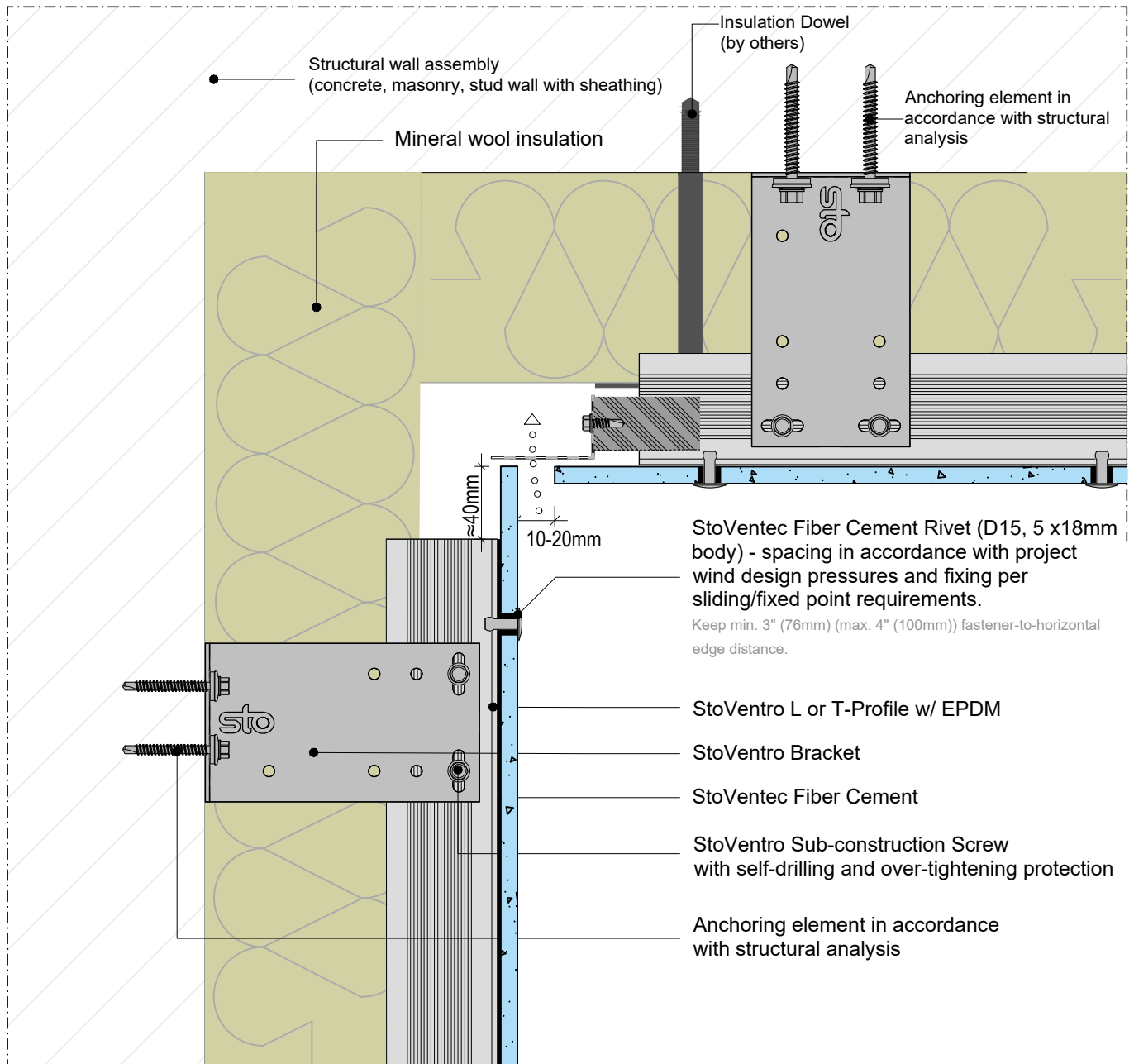
StoVentec® Fiber Cement

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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Date: November 2024

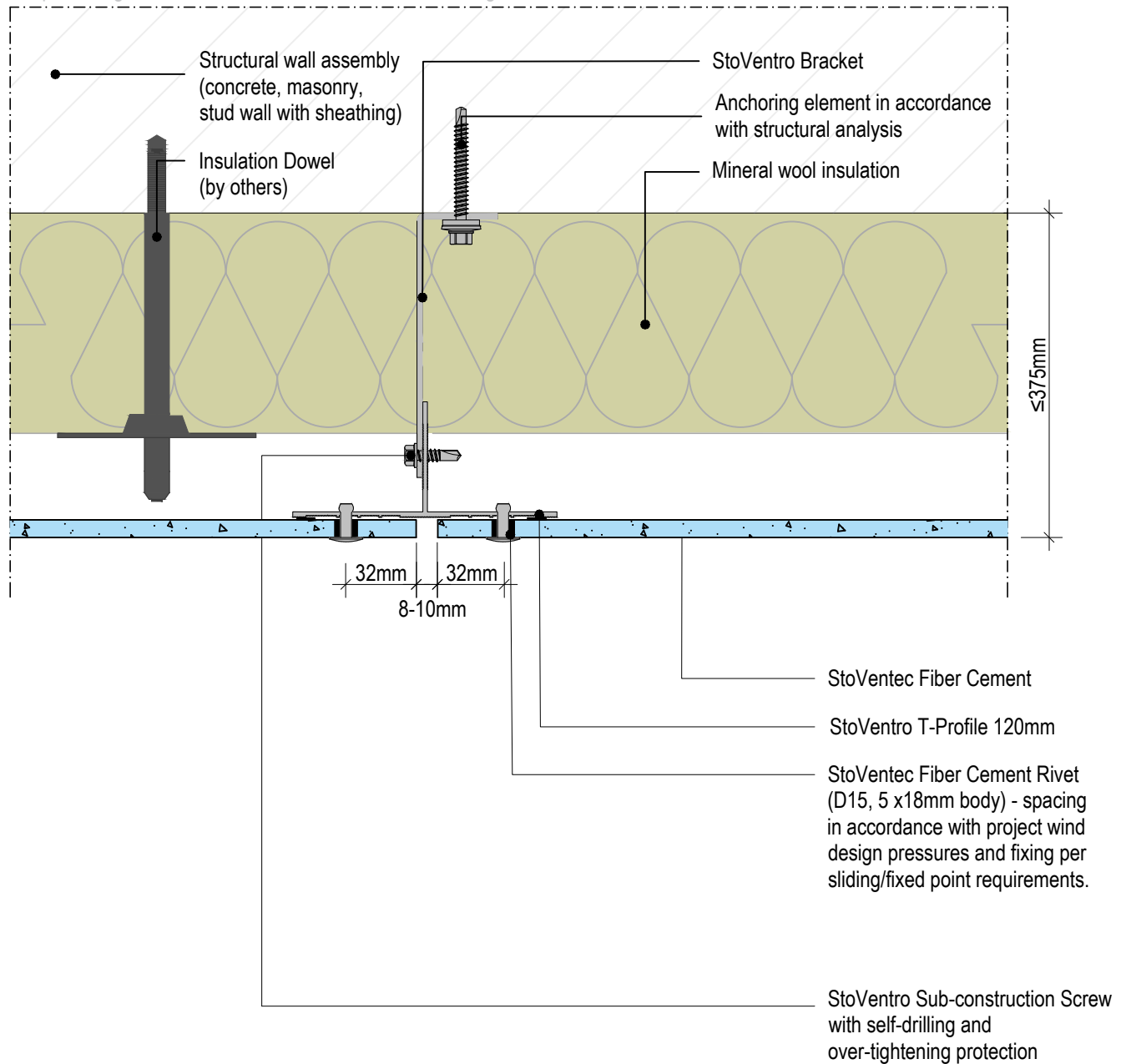
Detail No.: 90.Fc.165

StoVentec™ Fiber Cement

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

Section View

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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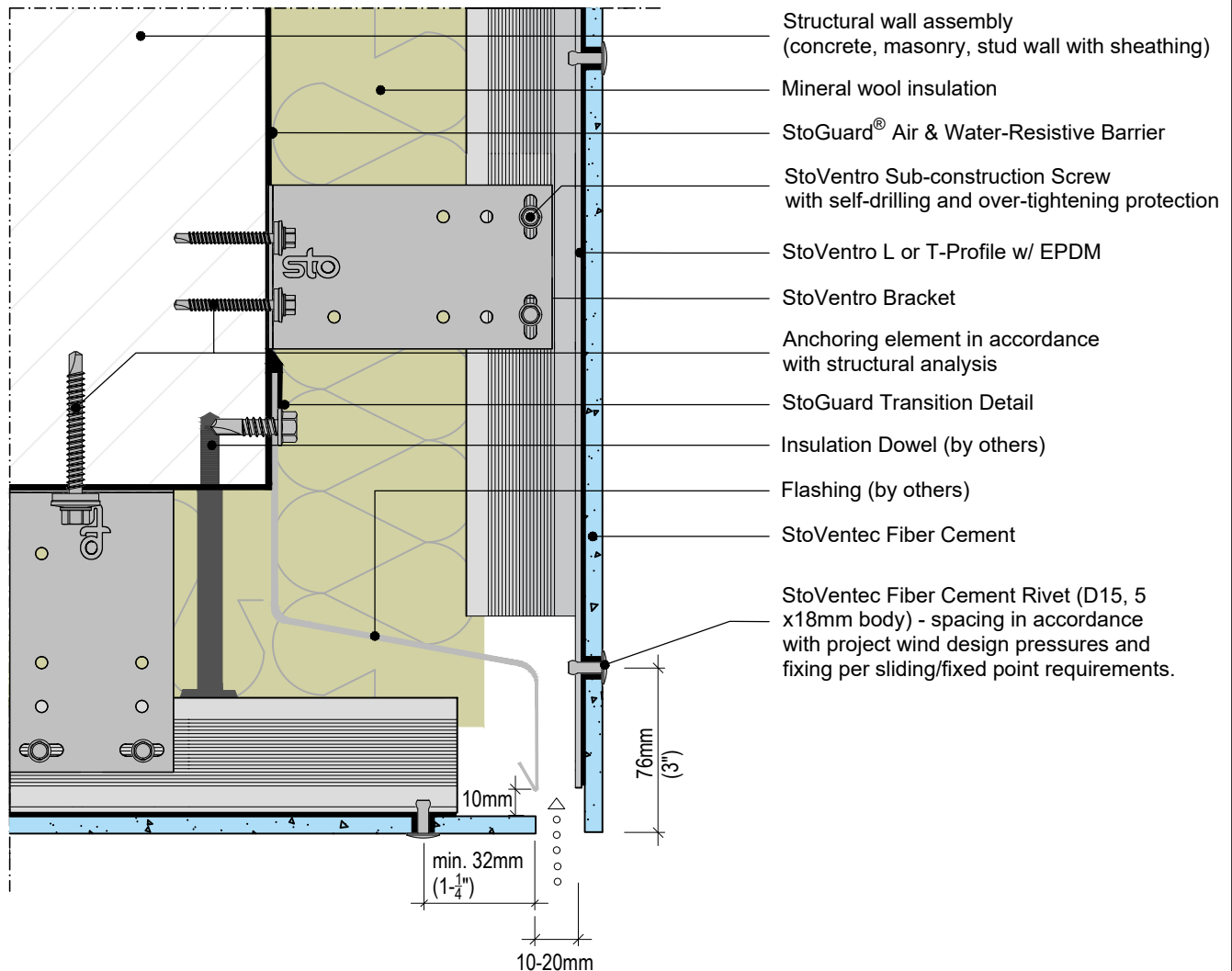
StoVentec® Fiber Cement**Soffit or Ceiling transition to Vertical Wall Installation - Insulated (Conditioned)**

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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StoVentec Fiber Cement

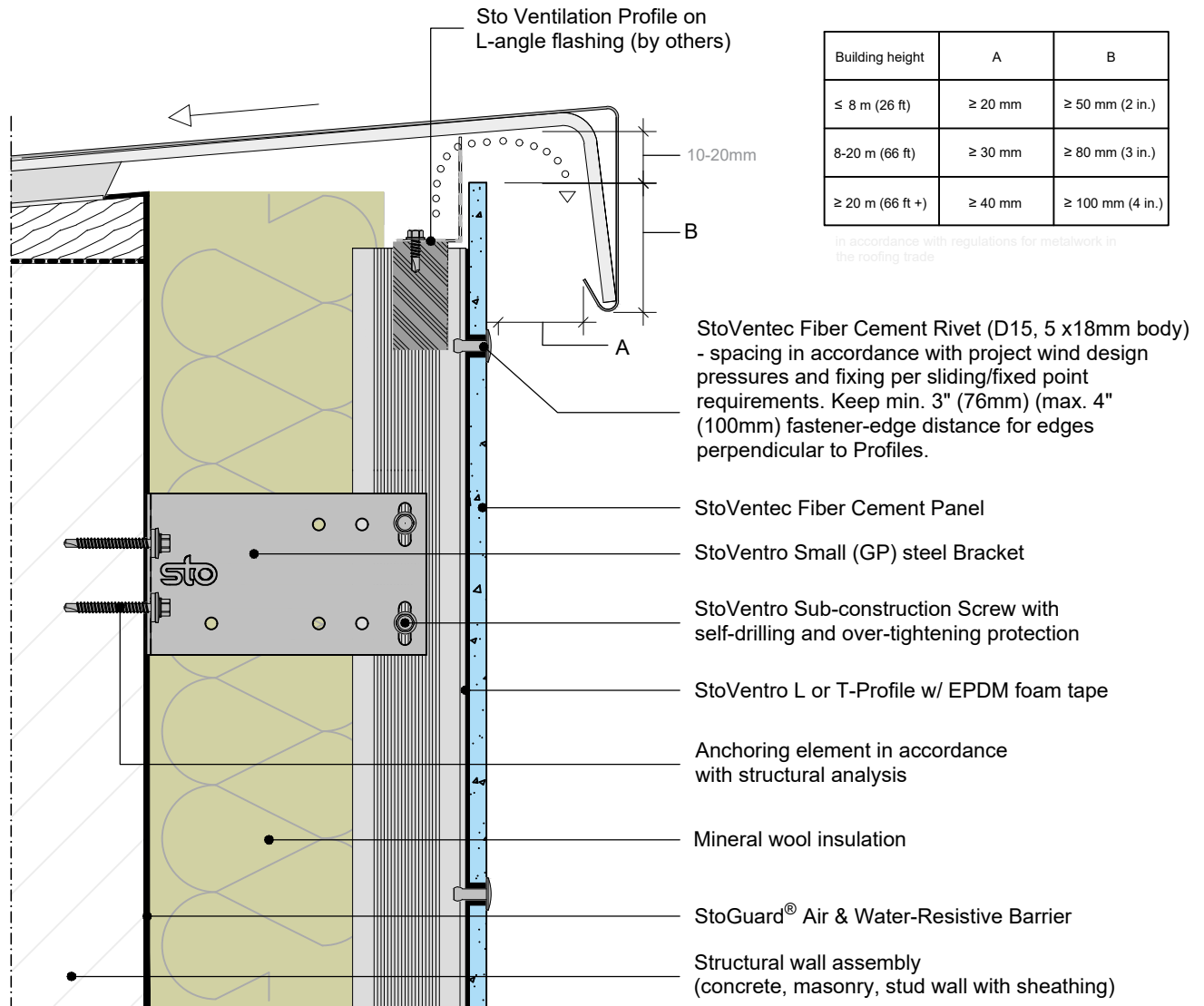
StoVentro™ Sub-Construction System

Installation under Parapet

Section View

Date: November 2024

Detail No.: 90.Fc.180



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StoVentec Fiber Cement

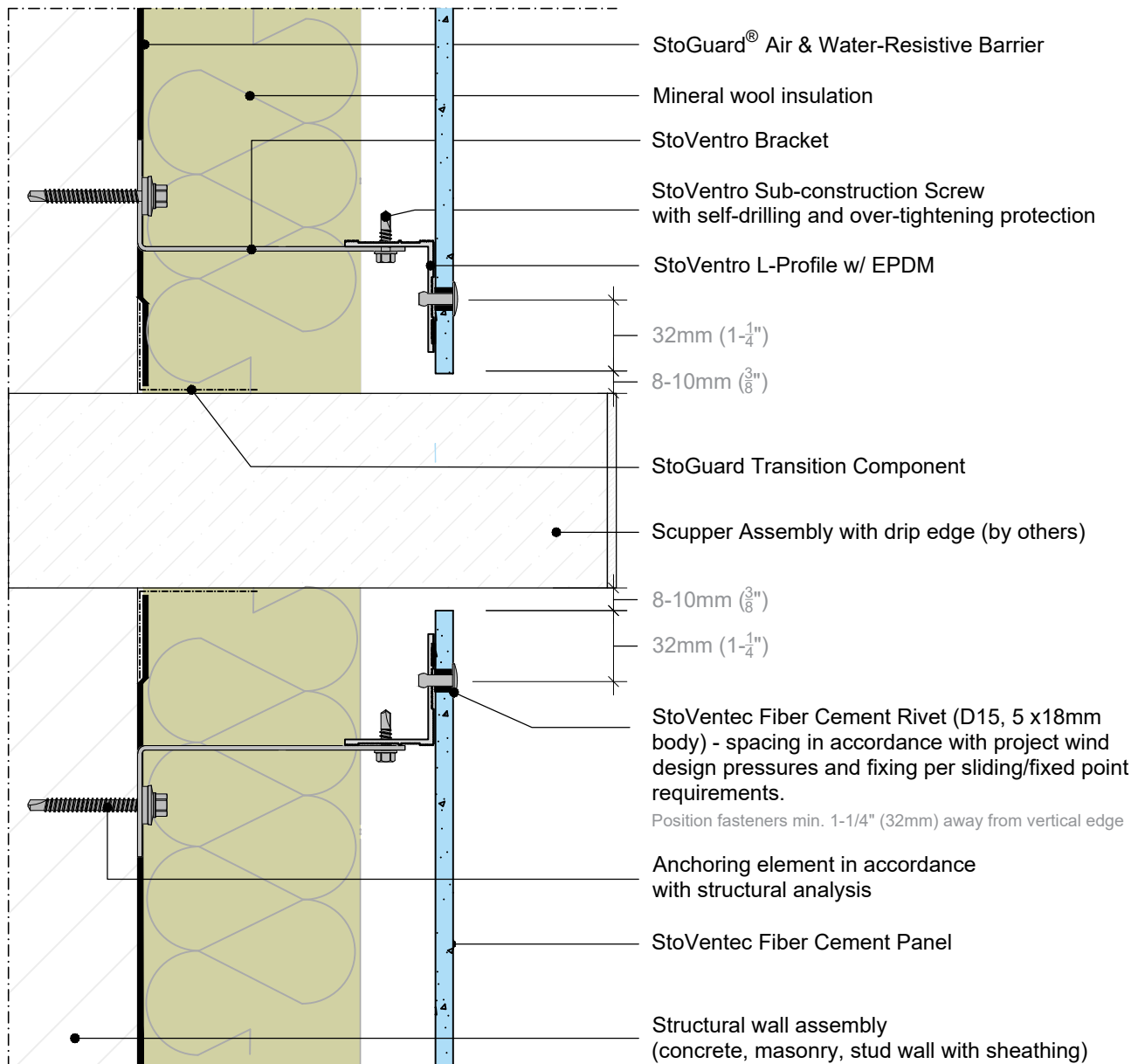
StoVentro™ Sub-Construction System

Scupper Penetration with open joints

Plan View

Date: November 2024

Detail No.: 90.Fc.300

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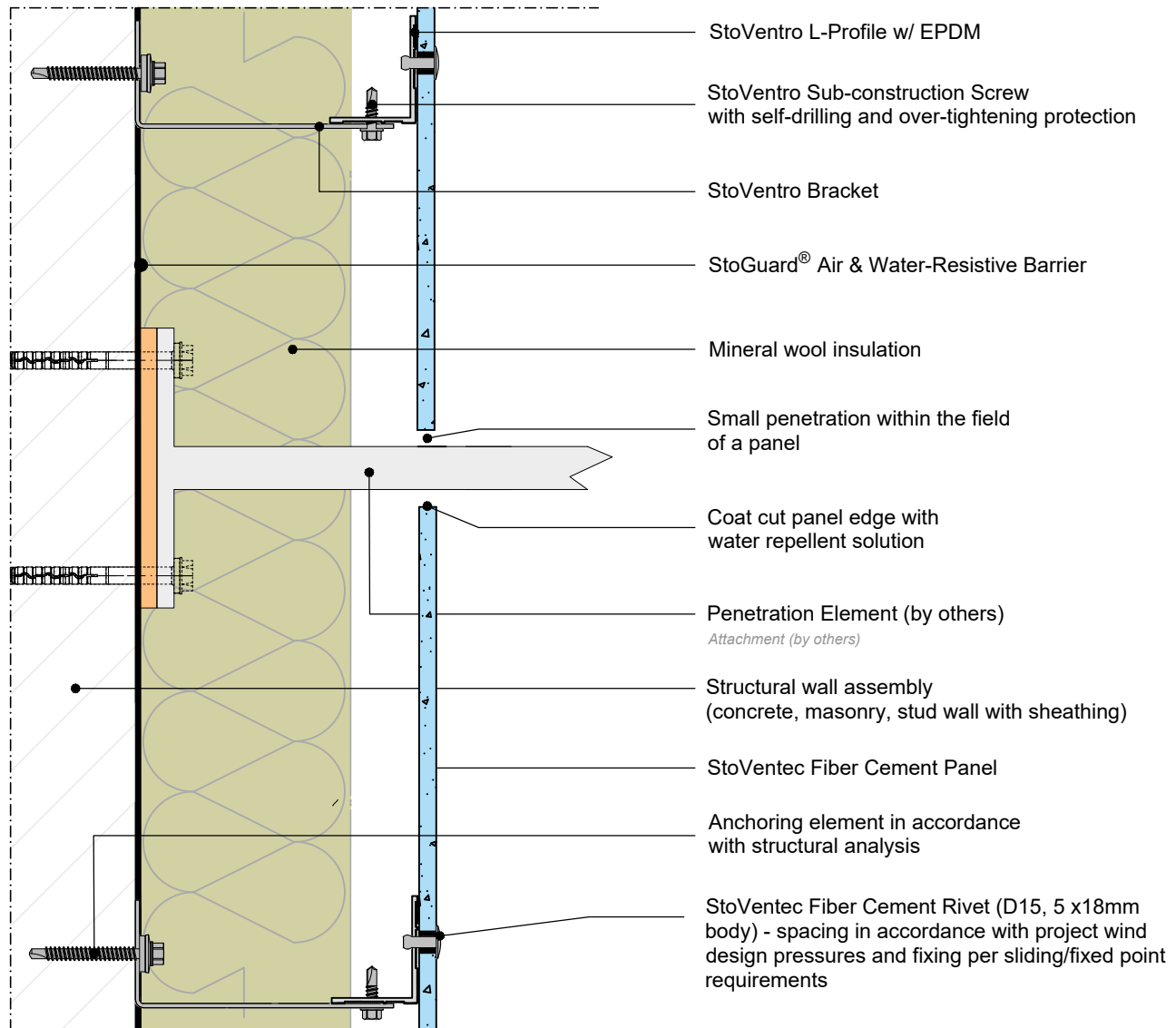
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StoVentec Fiber Cement

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

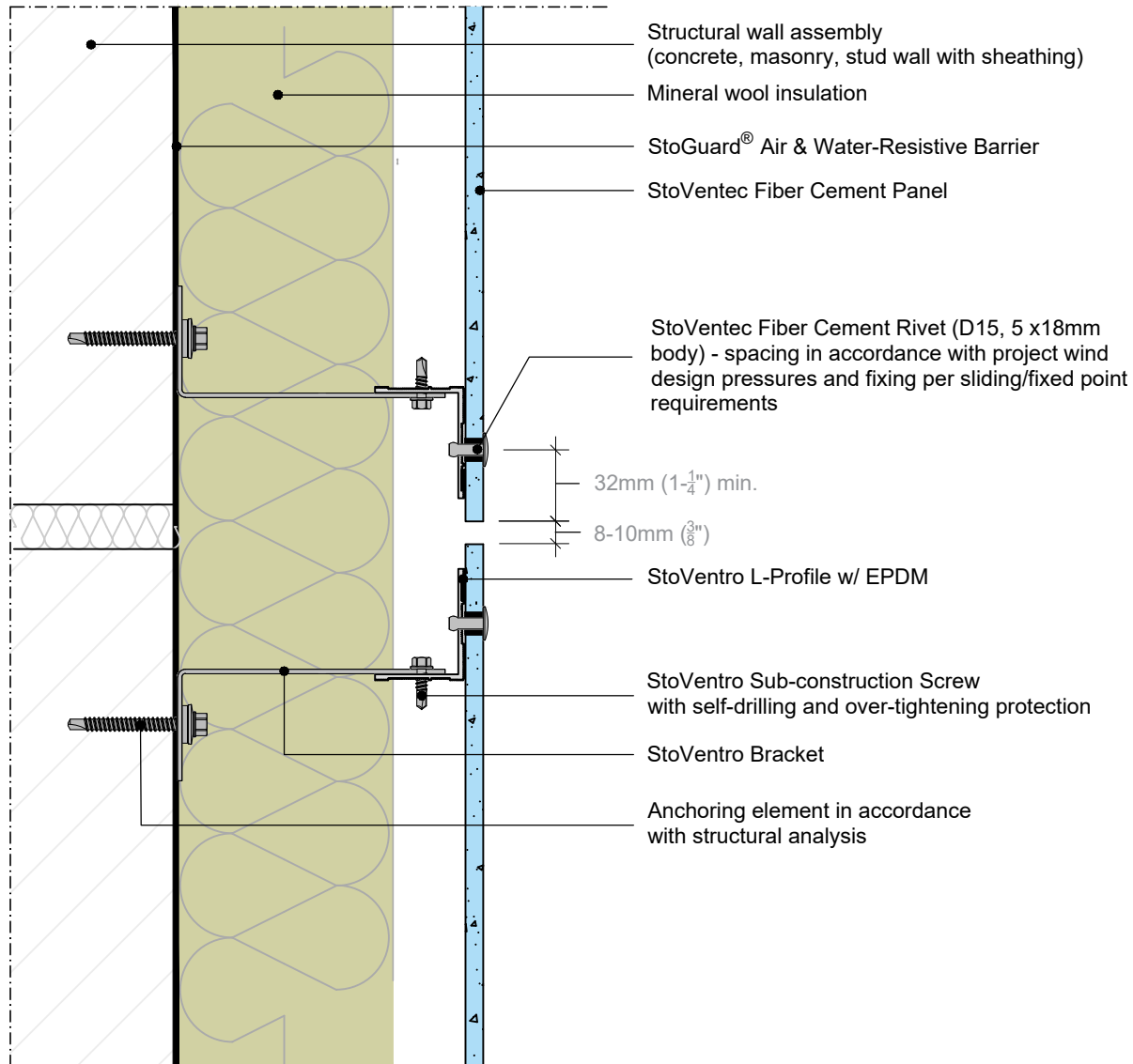
StoVentro™ Sub-Construction System

Back-up wall Structural Joint with Fiber Cement Joint

Plan View

Date: November 2024

Detail No.: 90.Fc.390



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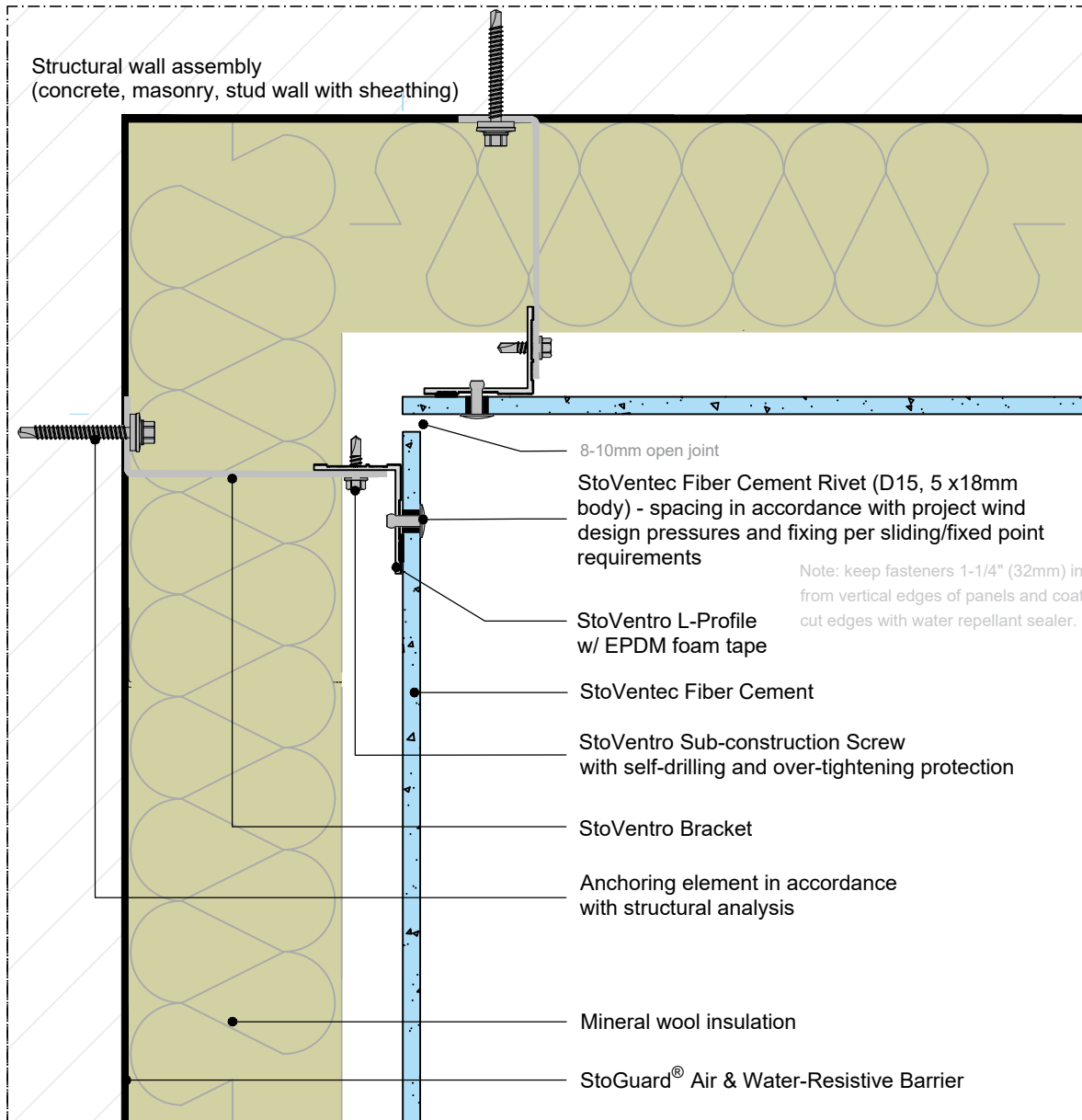
StoVentec Fiber Cement StoVentro™ Sub-Construction System

Inside Corner - Open Joint

Plan View

Date: November 2024

Detail No.: 90.Fc.400



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StoVentec Fiber Cement

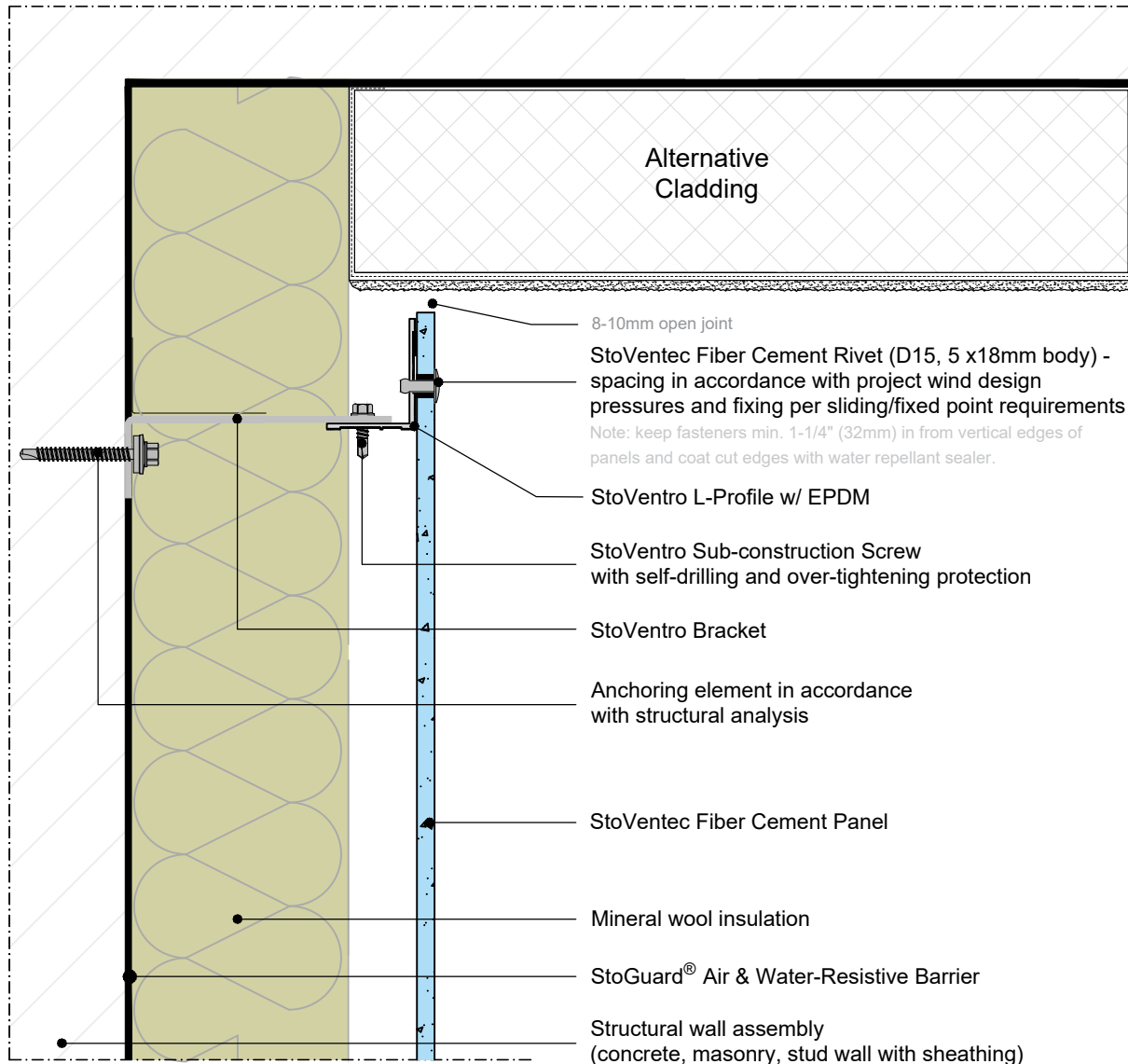
StoVentro™ Sub-Construction System

Installation at Inside Corner to alternative facade

Plan View

Date: November 2024

Detail No.: 90.Fc.409

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Building with conscience.

StoVentec Fiber Cement

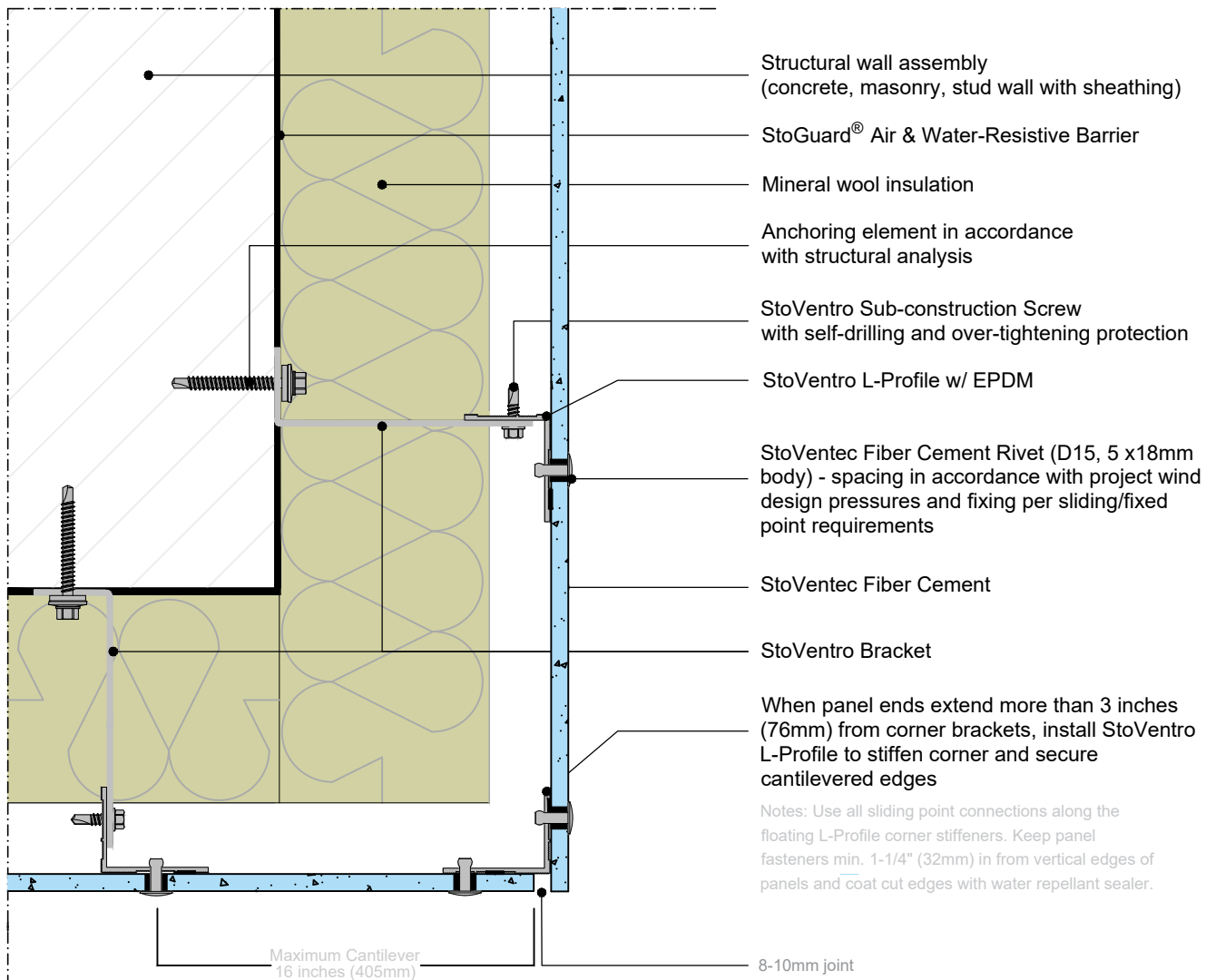
StoVentro™ Sub-Construction System

Outside Corner

Plan View

Date: November 2024

Detail No.: 90.Fc.410



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StoVentec Fiber Cement

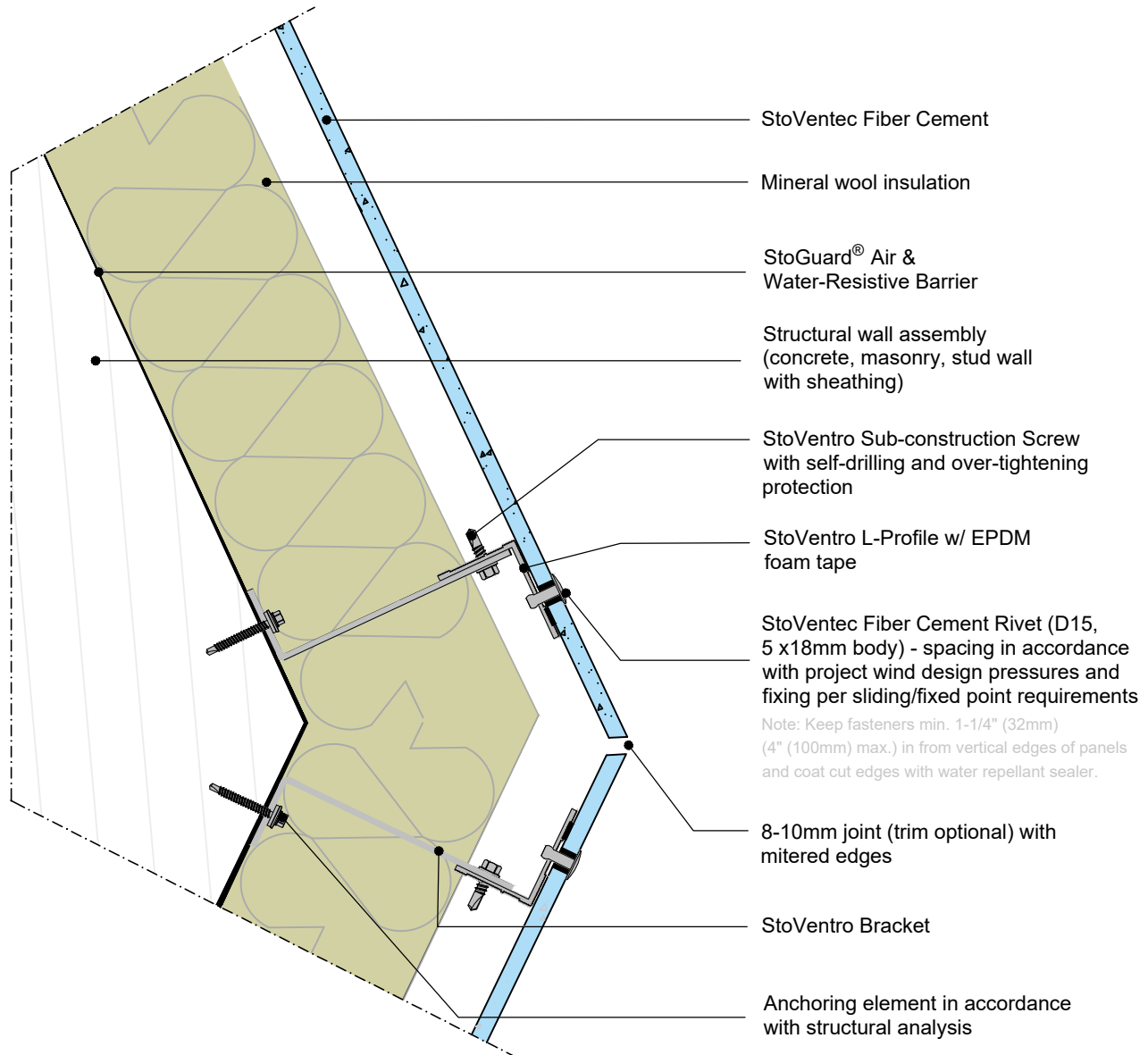
StoVentro™ Sub-Construction System

Segmented Radius/Non-90-Degree Outside Corner

Plan View

Date: November 2024

Detail No.: 90.Fc.412



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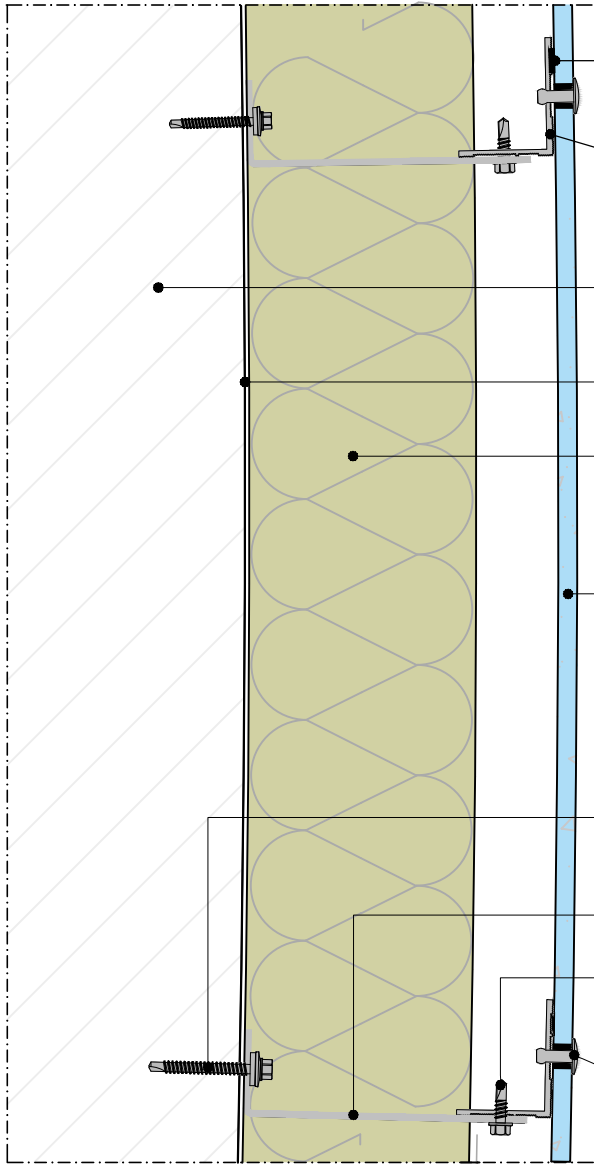
Building with conscience.

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



- EPDM foam tape
- StoVentro L-Profile
- Structural wall assembly
(concrete, masonry, stud wall with sheathing)
- StoGuard® Air & Water-Resistive Barrier
- Mineral wool insulation
- StoVentec Fiber Cement Panel - curved
Min. radius for curving panels: 40 feet (12m)
- for smaller radius wall applications see
Sto Detail 90.Fc.412 for segmentation
- Anchoring element in accordance
with structural analysis
- StoVentro Bracket
- StoVentro Sub-construction Screw
with self-drilling and over-tightening protection
- StoVentec Fiber Cement Rivet (SSO D15, 5 x
18mm body) spacing in accordance with project
wind design pressures and fixing per sliding/fixed
point requirements

For curved panels, max. fastener spacing 16 inches (405mm)

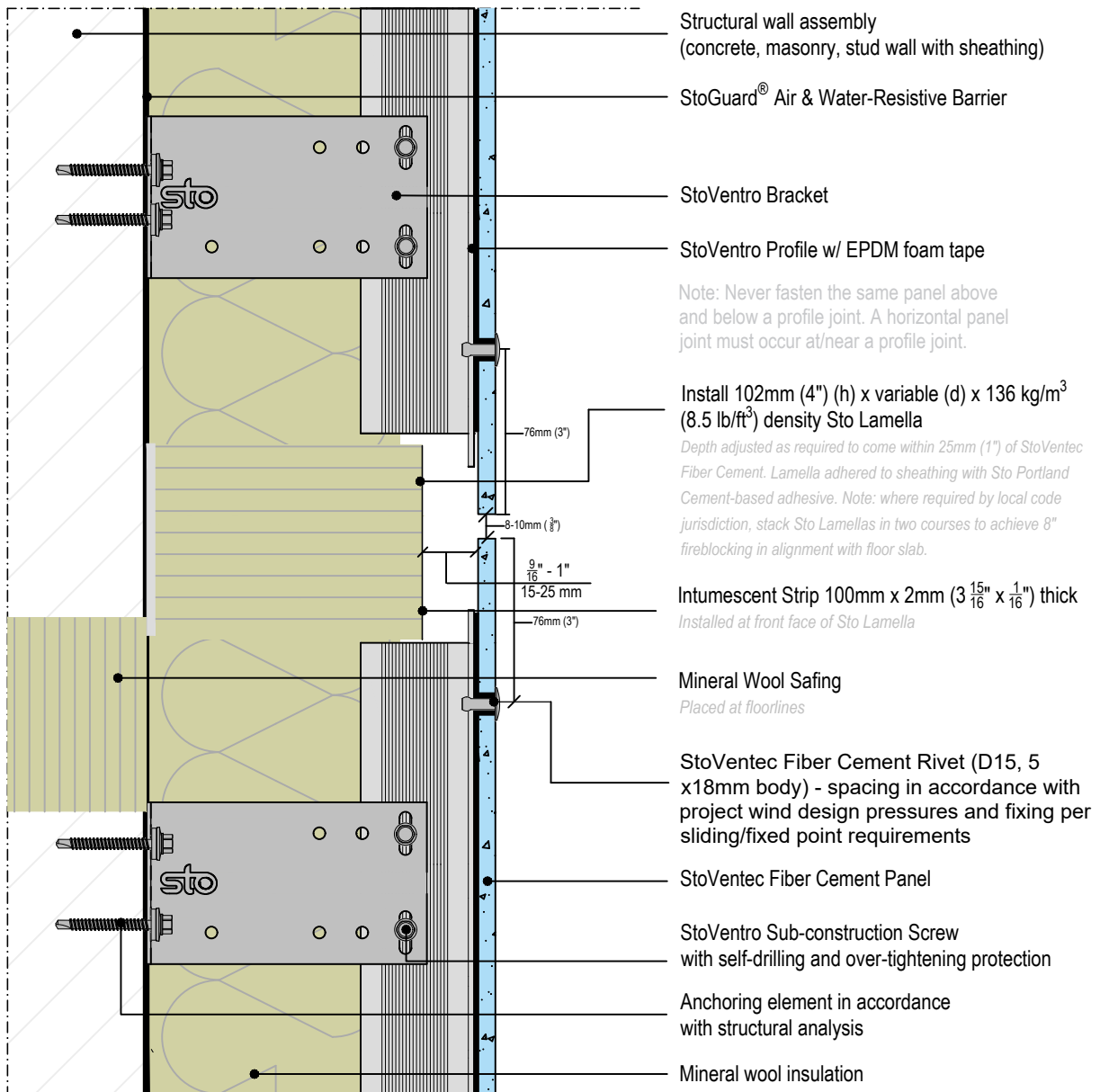
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StoVentec™ Fiber Cement**StoVentro Sub-construction****Fire Protection at Floor Line - Horizontal Joint with Sto Lamella**

Section View

Date: November 2024**Detail No.: 90.Fc.550****ATTENTION**

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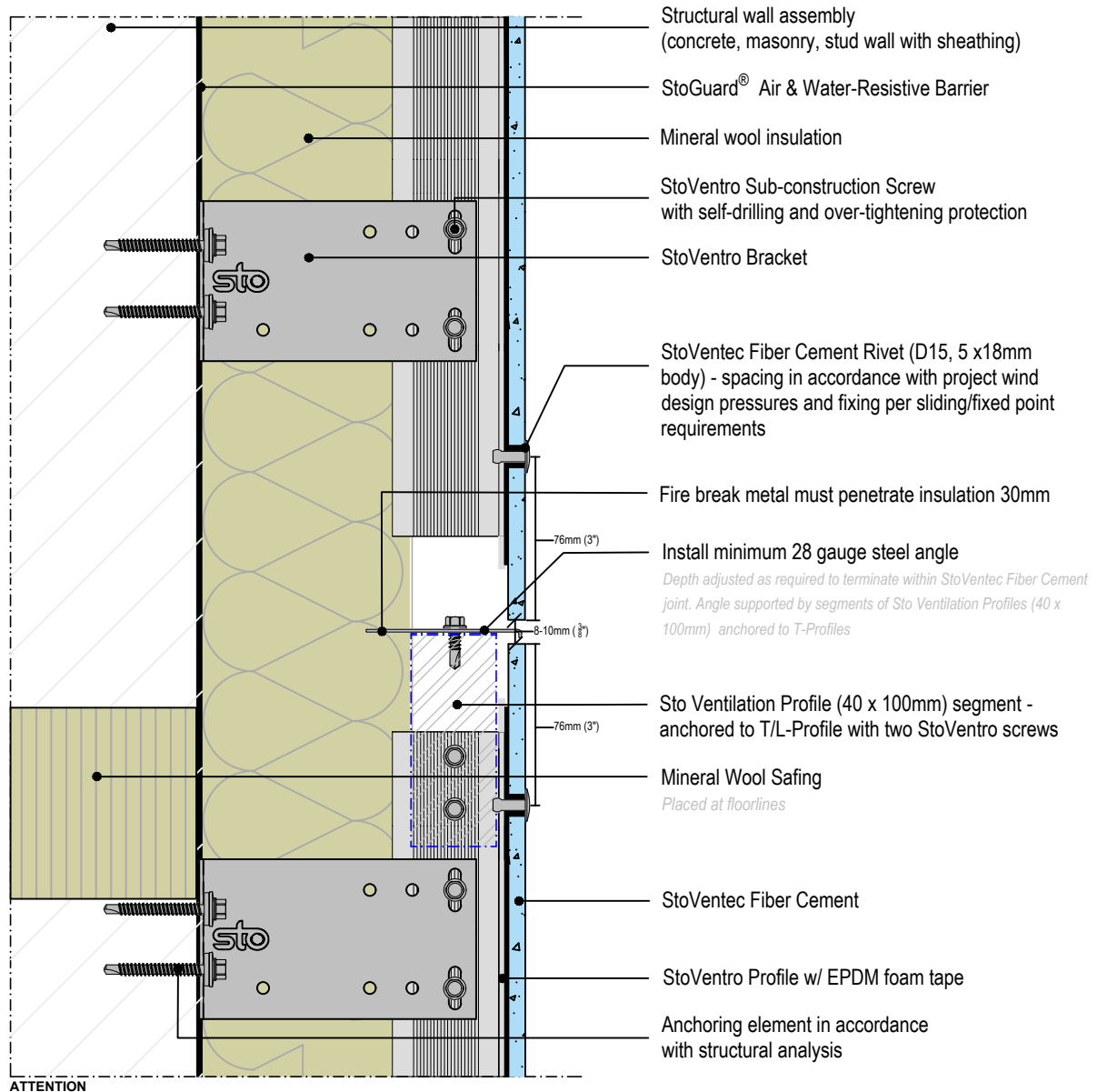
StoVentec™ Fiber Cement

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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