

StoVentro Sub-Construction System

Detail Booklet Series 90Sc.xx | August 2024

Façades	•
Interiors	I
The StoVentro™	

The StoVentro™ Sub-Construction is an integral component of StoVentec® Rainscreen systems.

Safe and long-lasting, StoVentro absorbs both the wind loads and dead loads present on the facade. The sophisticated modular system fulfills specific structural and energy efficiency requirements and provides the best possible solutions for your projects.

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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

Sto Corp.

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StoVentro Vertical Sub-Construction Installation Design Considerations Section View Date: January 2024

Detail No.: 90.Sc.001

For full system offering see StoVentro Product Bulletin, System Bulletin, and Installation Videos



Design Considerations

For Thermal and Structural Performance, contact Sto Corp.

<u>Bracket Types</u>: Aluminum, Zn-Al-Mg Galvanized Steel, Stainless Steel <u>Bracket Sizes</u>: Large Bracket (FP) for Dead Load and Wind Loads | Small Bracket (GP) for Wind Loads <u>Ventilation Cavity</u>: 20mm - 50mm (¹³/₁₆" - 2") | 30mm (1 ³/₁₆" <u>Adjustability Range</u>)

<u>Profile Types</u>: T-Profile, L-Profile, Gullwing T-Profile <u>Horizontal T-Profile Spacing</u>: 32" o.c. max Vertical gap between adjacent T/L profiles: 10 - 15mm $(\frac{3}{8}" - \frac{5}{8}")$

<u>Fasteners</u>: Sub-construction fasteners 5.5 x 22mm; Steel Stud substrate $\frac{1}{4}$ - 14 Bi-Metal SS; Concrete/Timber substrates contact Sto Corp.

Minimum fastening distance from top, bottom, or side edges of T/L profiles: \geq 10mm ($\frac{3^{\circ}}{8}$)

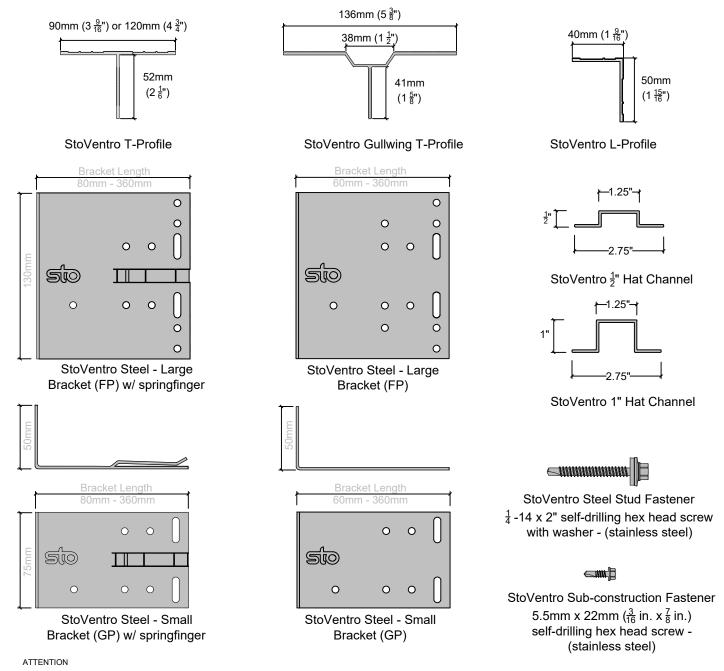
Quantity of fixed point (FP) connections to T/L profile: 1 maximum

Quantity of sliding point (GP) connections to T/L profile: At least one sliding point is required. Actual quantity is defined by prescriptive/pre-engineered designs or project-specific engineering calculations. Fasten through oblong holes in brackets to allow for thermal movement.



StoVentro Component Dimensions w/ Steel Brackets

FP and GP brackets are available in Zn-Al-Mg-galvanized steel with or without spring fingers. Aluminum brackets are also available (see Detail No.: 90Sc.004A). Stainless steel versions available made-to-order only with lead times. For full system offering see StoVentro Product Bulletin, System Bulletin, and Installation Videos. T-Profiles, L-Profiles, and hat channels are extruded aluminum.



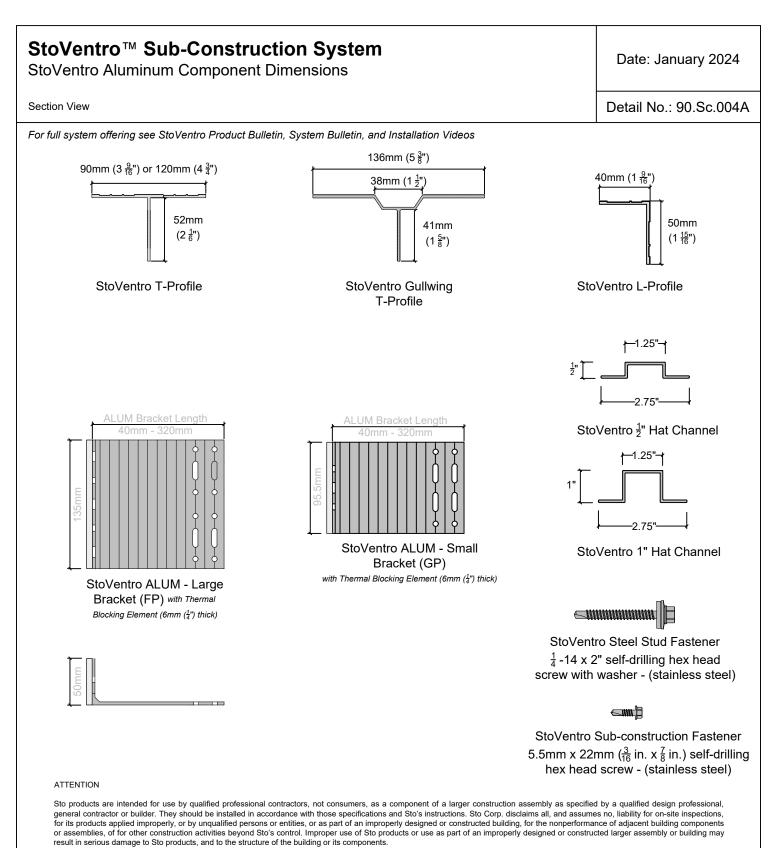
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Date: January 2024

Detail No.: 90.Sc.004





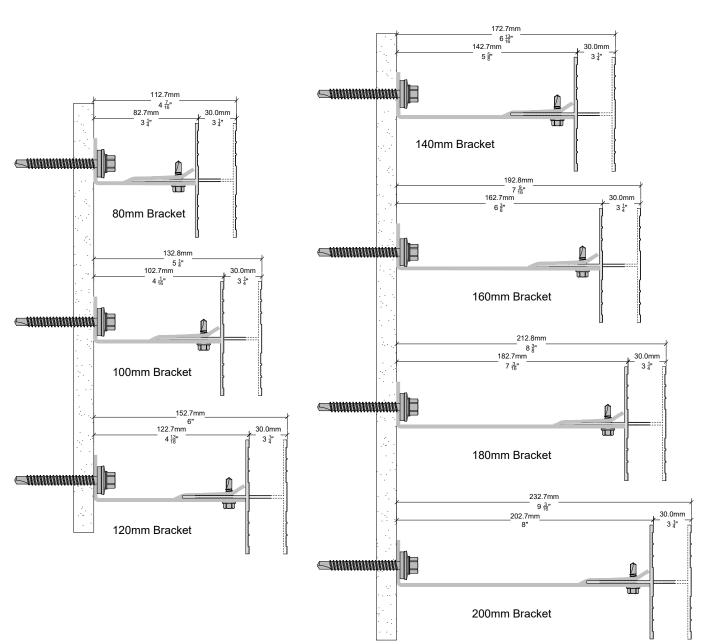


StoVentro Steel Bracket, with spring finger and T-Profile

Bracket Sizes: 80mm - 200mm (3 $\frac{1}{8}$ " - 7 $\frac{7}{8}$ ") | Typical 30mm (1 $\frac{3}{16}$ ") Adjustment Range Section View

Date: January 2024

Detail No.: 90.Sc.005



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StoVentro Steel Bracket, with spring finger and L-Profile

Bracket Sizes: 80mm - 200mm (3 $\frac{1}{8}$ " - 7 $\frac{7}{8}$ ") | Typical 20mm ($\frac{13}{16}$ ") Adjustment Range Section View

StoVentro L-Profile can be rotated 90 degrees to allow for a 30mm Adjustment Range 162.7mm 6 3' 142.7mm 5 5" *Cummunium* 102.7mm 4 <u>1</u>" 82.7mm 3 1/3" 140mm Bracket *communitum* 182.7mm 7 3 162.7m пп 6 3' 80mm Bracket *Cummunum* 122.7mm 4 13 102.7mm 4 <u>1</u>" 160mm Bracket *Community* 202.7 8' 182.7mm ΠĒ 7 <u>3</u>" 100mm Bracket Cummunum 142.7mm 5 5" 122.7mm 4 ¦광 180mm Bracket *communut* 222.7mm 8 <u>3</u>' 202.7mm 8' 120mm Bracket <uumminut ΠĒ 200mm Bracket

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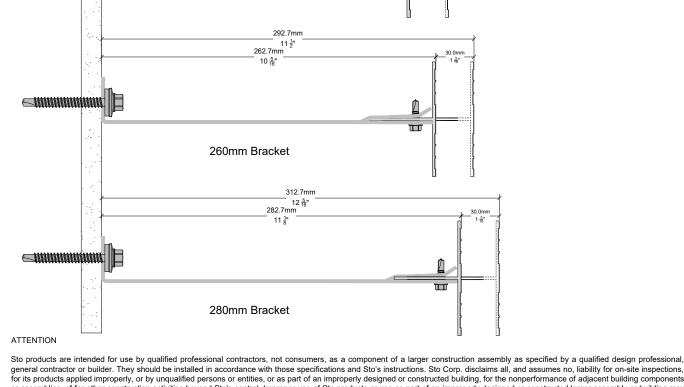
Detail No.: 90.Sc.005L



StoVentro[™] Sub-Construction System StoVentro Steel Bracket, with spring finger and T-Profile Bracket Sizes: 220mm - 280mm (8 $\frac{11}{16}$ " - 11") | Typical 30mm (1 $\frac{3}{16}$ ") Adjustment Range Section View 252.7mr 9 <u>15</u>" 222.7mm 8 3" _______ Ø ΠĒ 220mm Bracket 272.7mm 10 <u>3</u>" 242.7mm 9 9" *Cummunum* ΠĒ 240mm Bracket 292.7mm 11 ¹/₂" 262.7mm 10 ⁵/₁₆" Ô ΠĒ 260mm Bracket 312.7mm 12 5

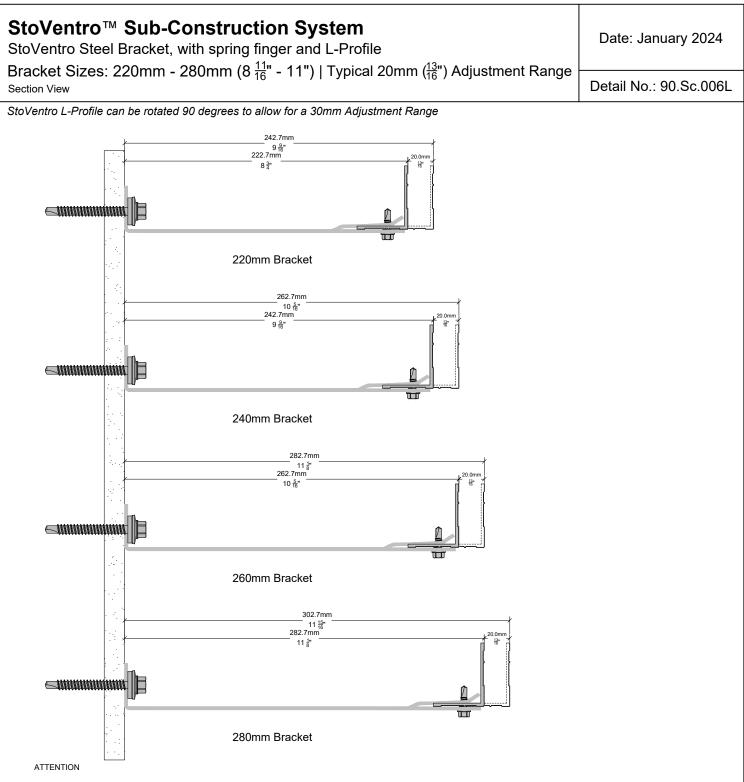
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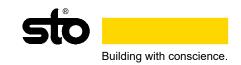


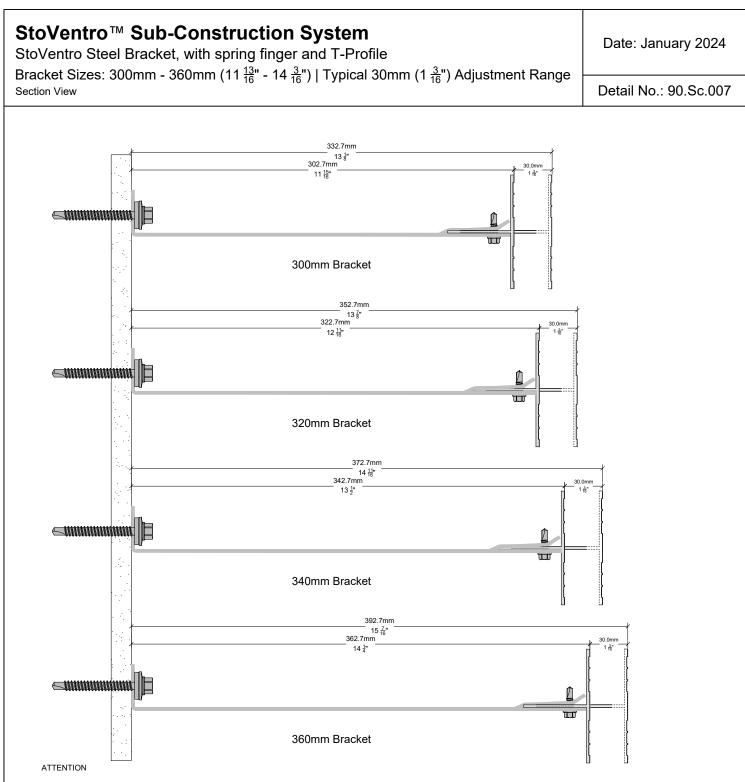
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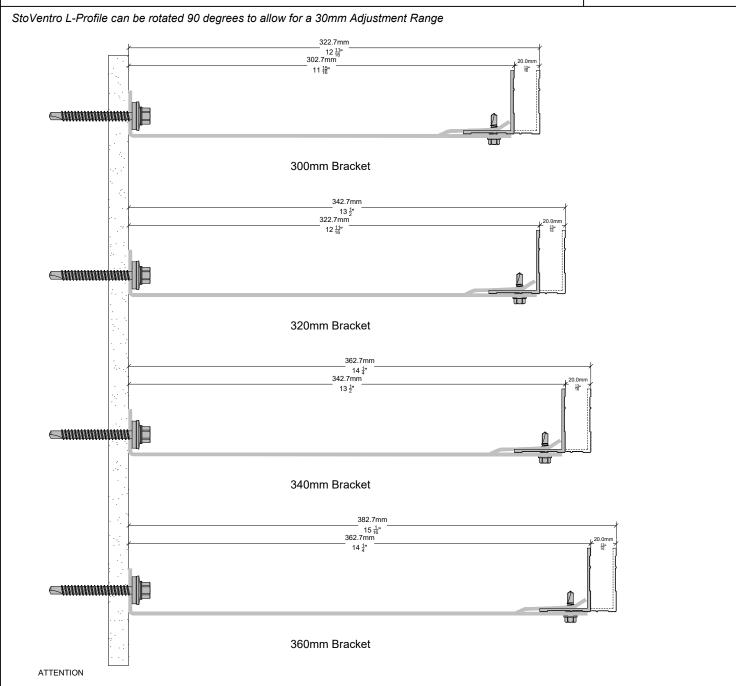
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StoVentro[™] Sub-Construction System

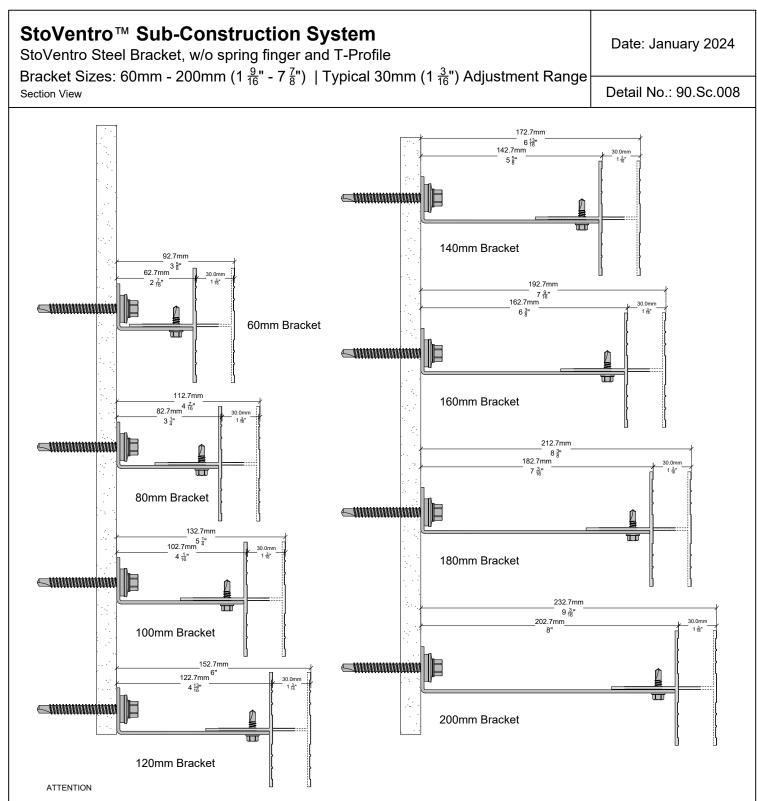
StoVentro Steel Bracket, with spring finger and L-Profile

Bracket Sizes: 300mm - 360mm (11 $\frac{13}{16}$ " - 14 $\frac{3}{16}$ ") | Typical 20mm ($\frac{13}{16}$ ") Adjustment Range – Section View



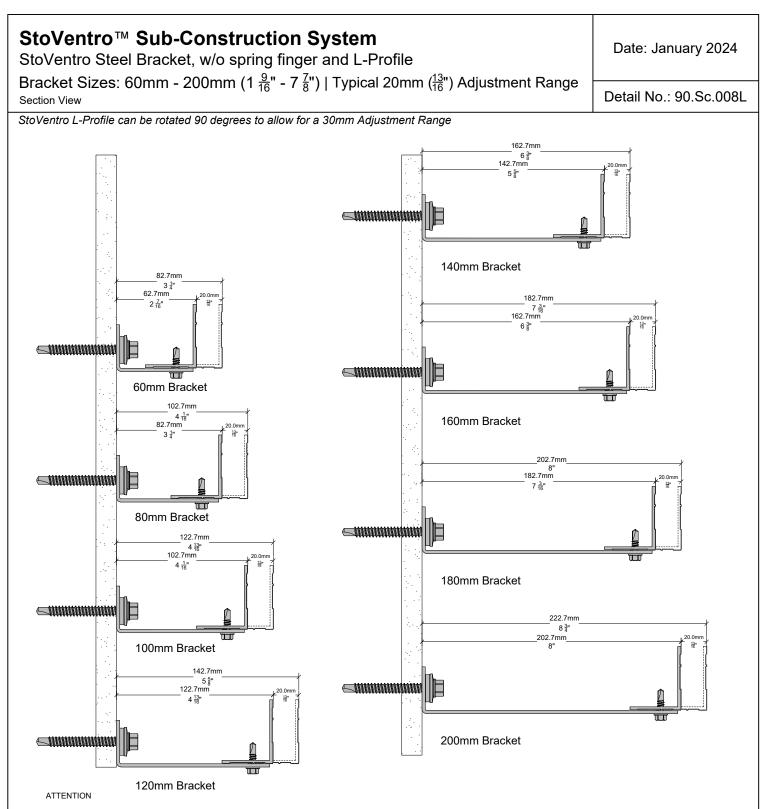
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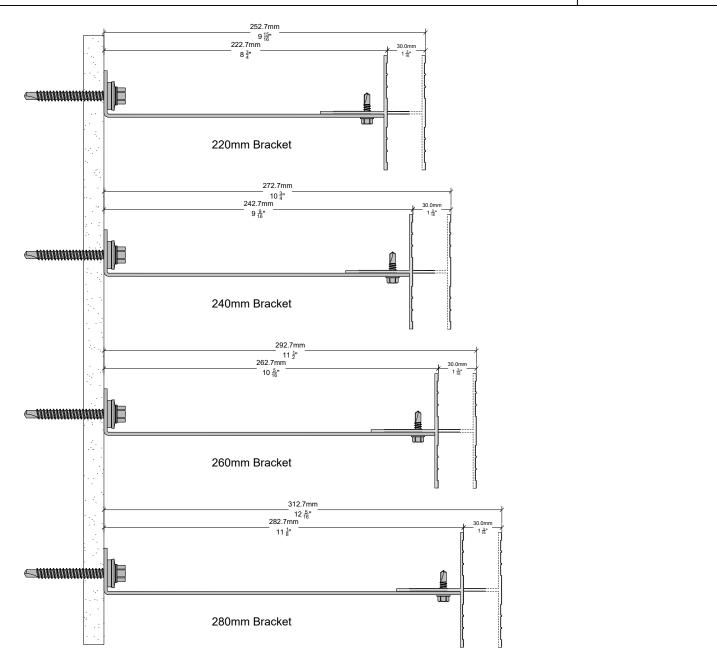
StoVentro™ Sub-Construction System

StoVentro Steel Bracket, w/o spring finger and T-Profile

Bracket Sizes: 220mm - 280mm (8 $\frac{11}{16}$ " - 11") | Typical 30mm (1 $\frac{3}{16}$ ") Adjustment Range Section View

Date: January 2024

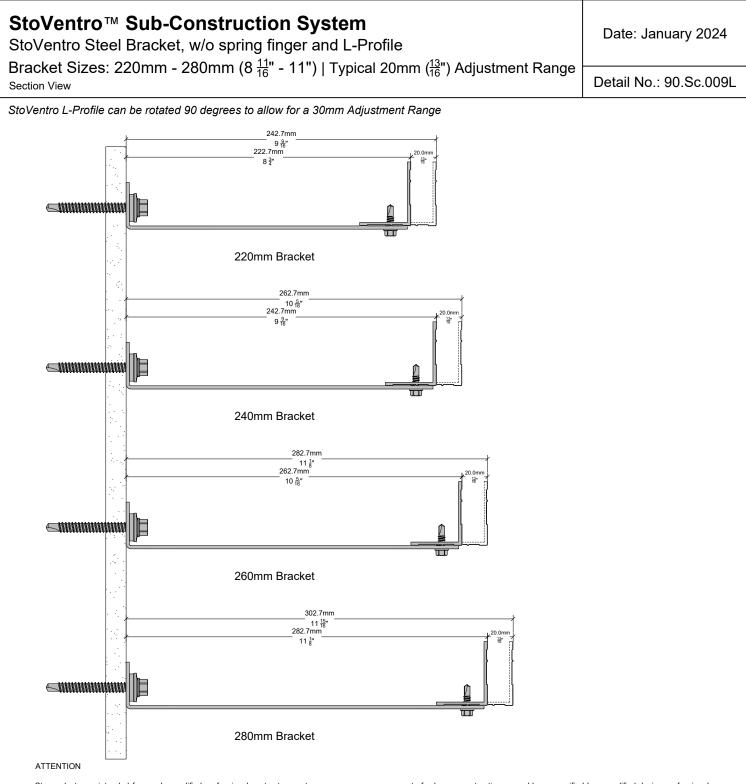
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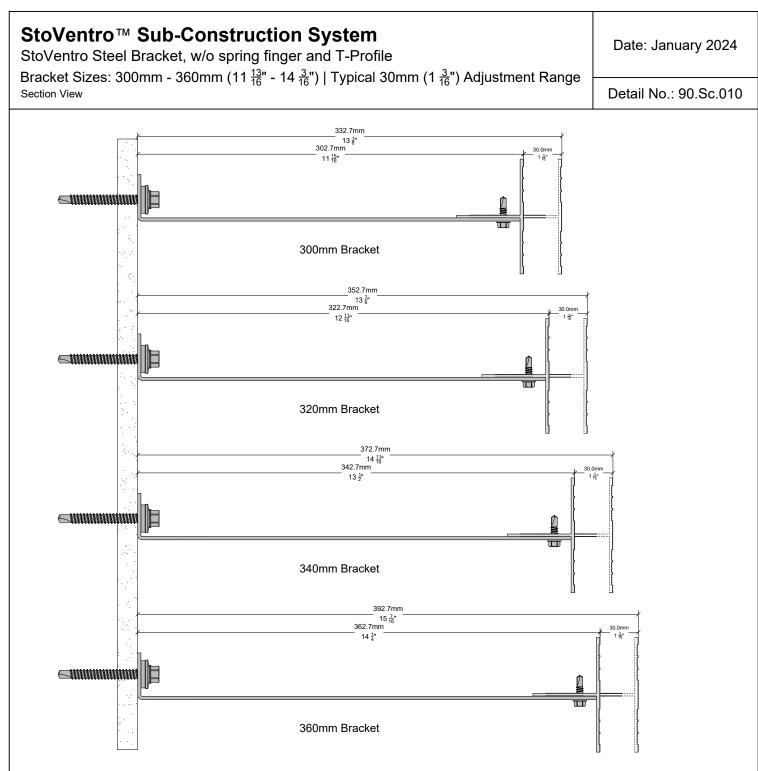
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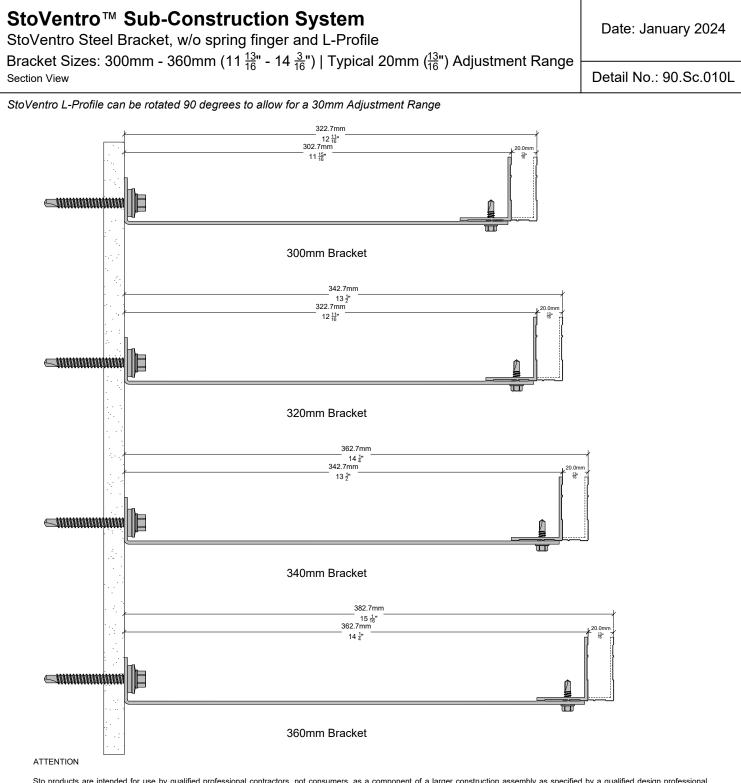
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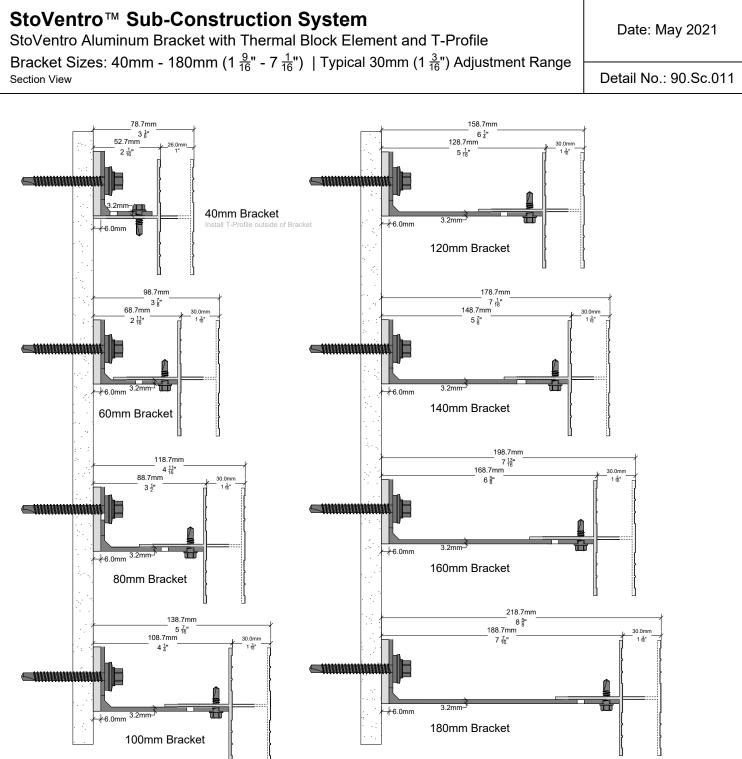
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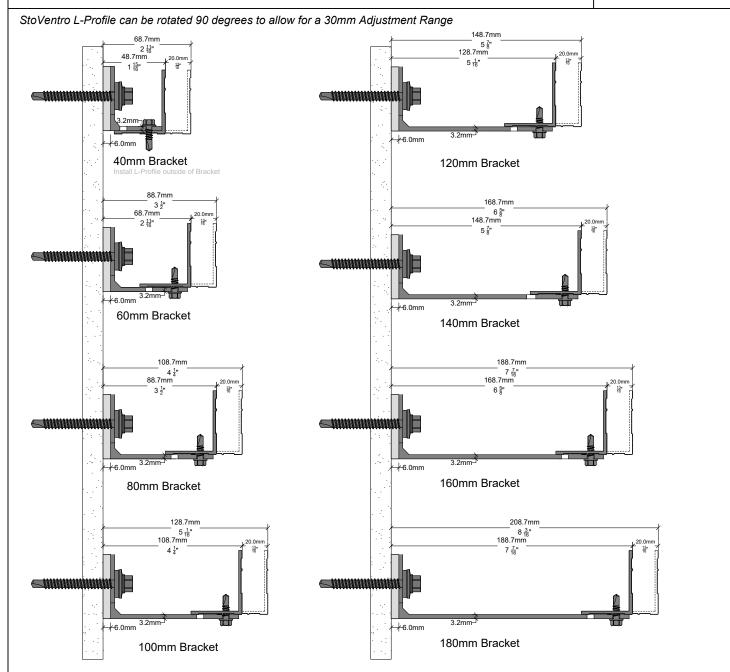
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StoVentro™ Sub-Construction System

StoVentro Aluminum Bracket with Thermal Block Element and L-Profile Bracket Sizes: 40mm - 180mm (1 $\frac{9}{16}$ " - 7 $\frac{1}{16}$ ") | Typical 20mm ($\frac{13}{16}$ ") Adjustment Range Section View Date: May 2021

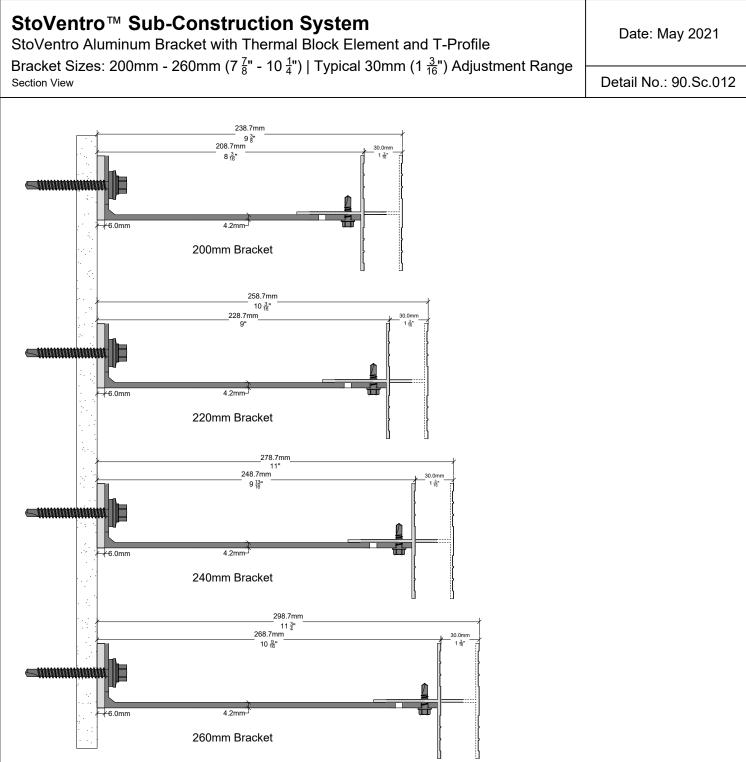
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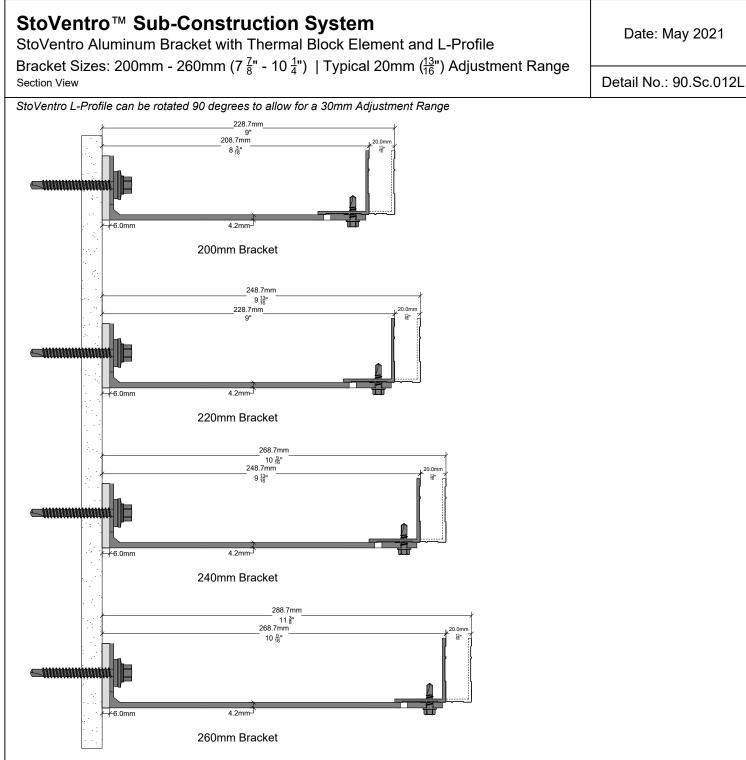
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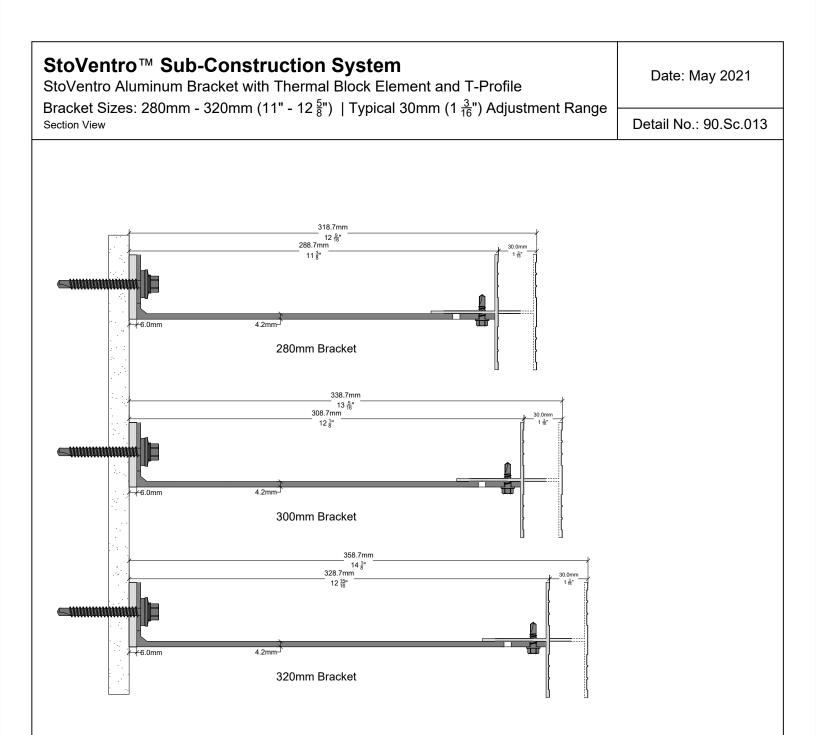
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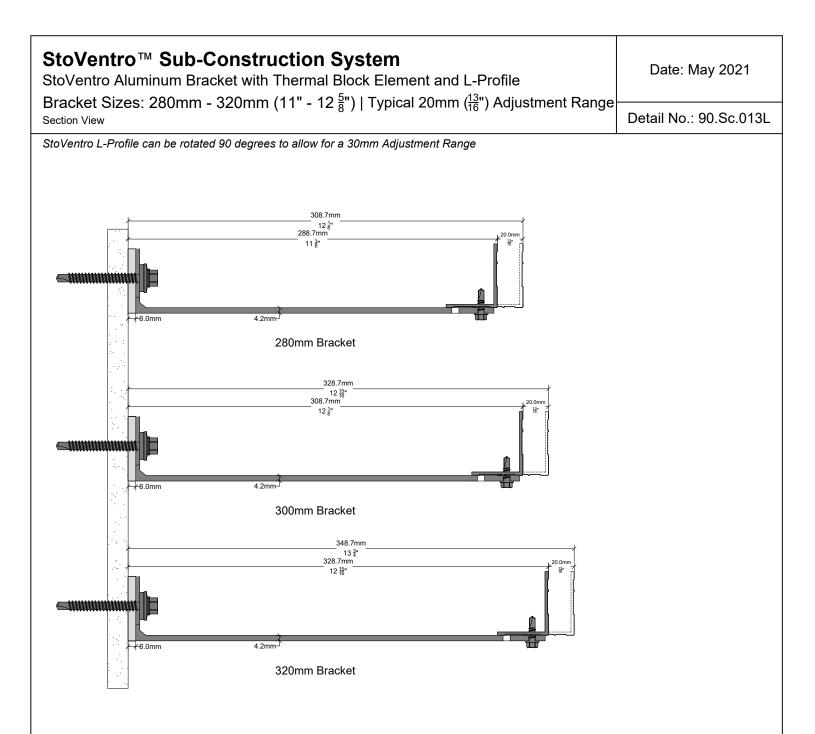
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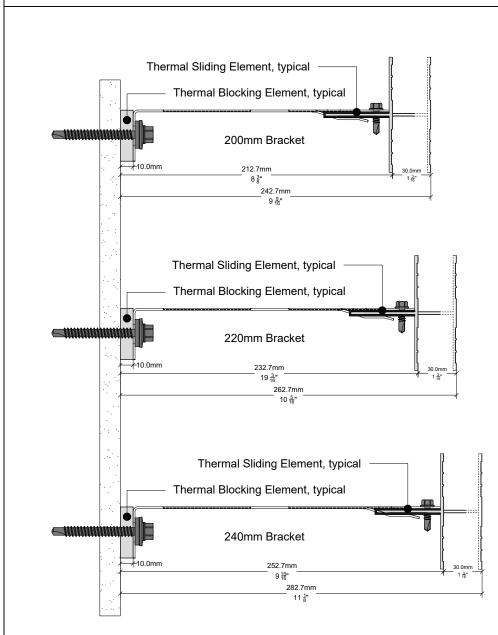


StoVentro Passive House Bracket with Thermal Blocking Elements

Bracket Sizes: 200mm - 240mm (7 $\frac{7}{8}$ " - 9 $\frac{7}{16}$ ") | Typical 30mm (1 $\frac{3}{16}$ ") Adjustment Range Section View

Date: May 2021

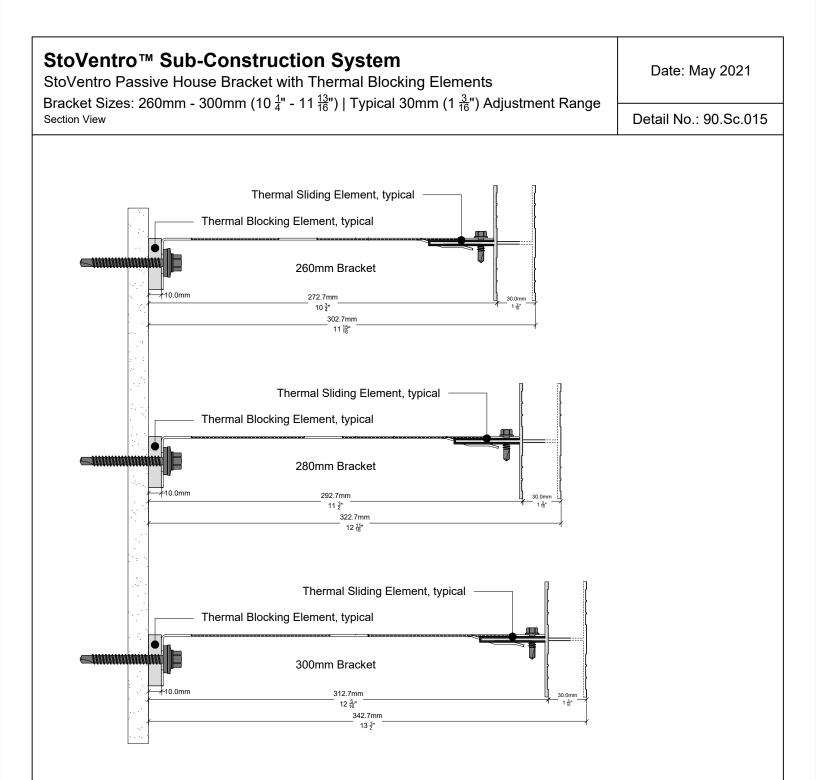
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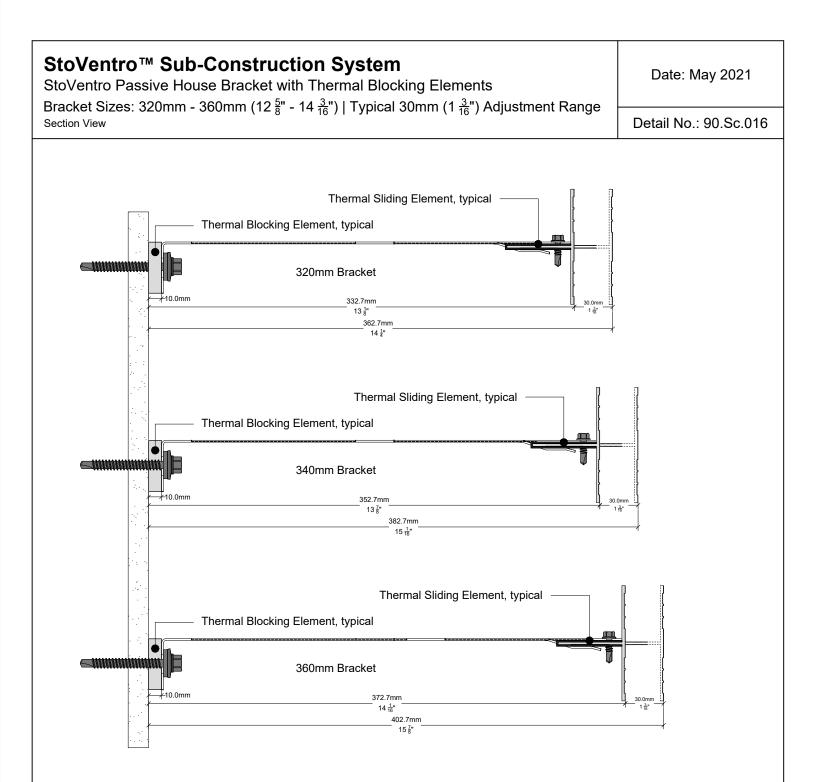
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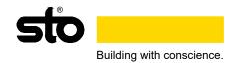


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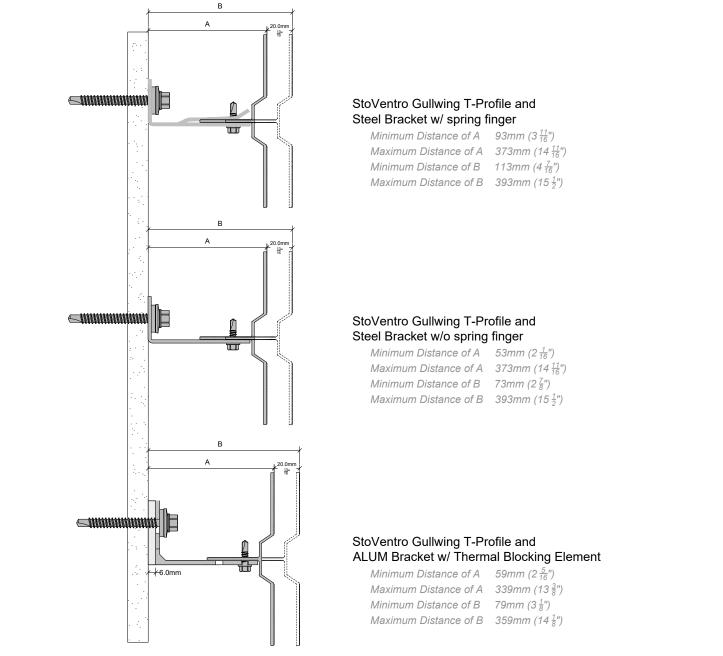


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StoVentro Gullwing T-Profile Installation Typical 20mm ($\frac{13}{16}$ ") Adjustment Range Section View Date: January 2024

Detail No.: 90.Sc.017



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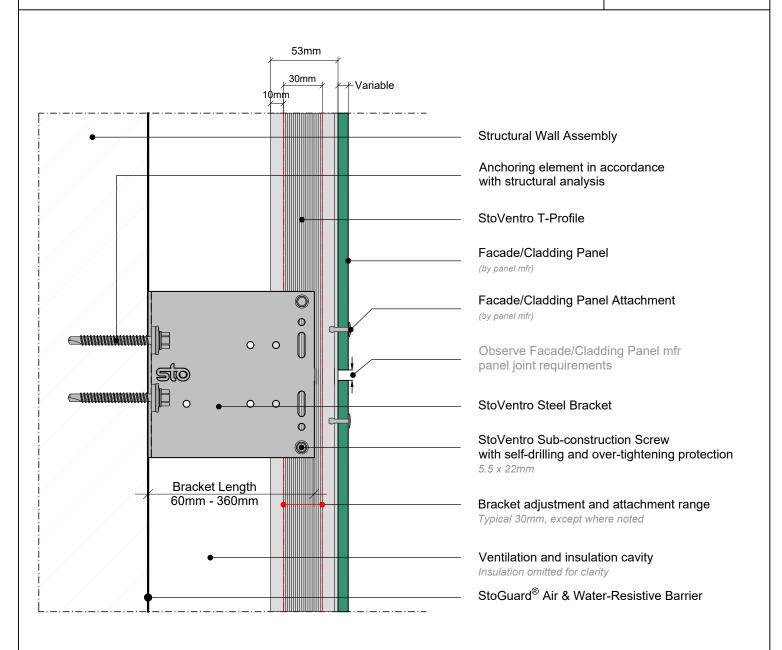
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System buildup with steel brackets and face fastened facade panel Section View

Date: January 2024

Detail No.: 90.Sc.020



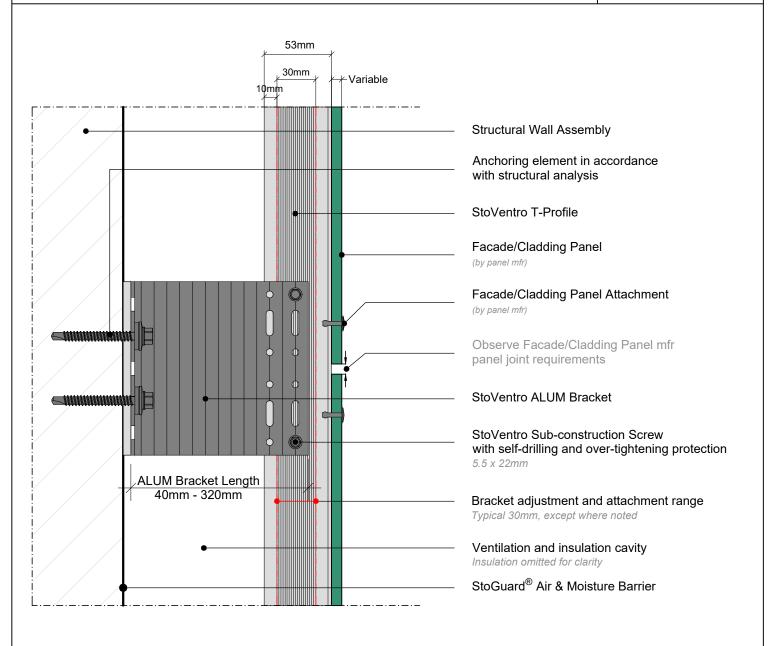
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System buildup with Face Fastened Facade Panel Aluminum Brackets with Thermal Blocking Element Section View Date: May 2021

Detail No.: 90.Sc.021



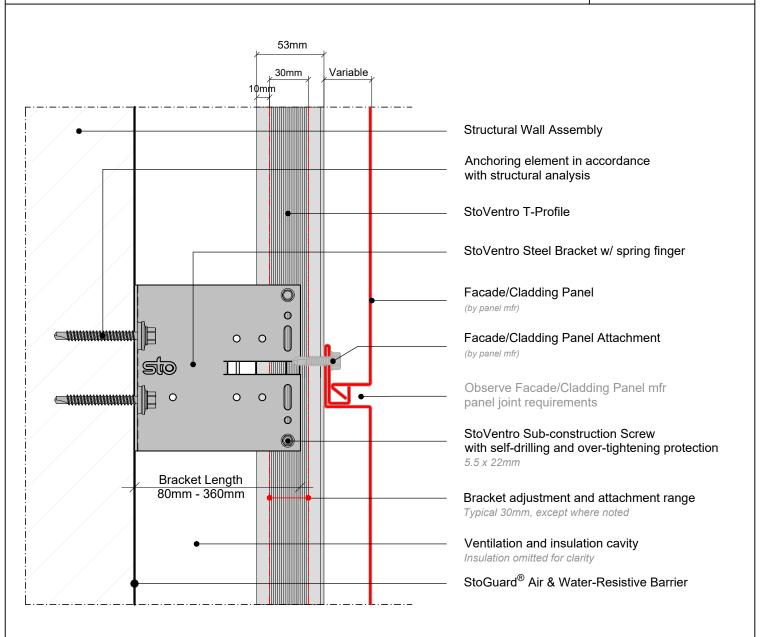
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System buildup with Metal Panels Steel Brackets w/ spring fingers (optional) Section View Date: January 2024

Detail No.: 90.Sc.022



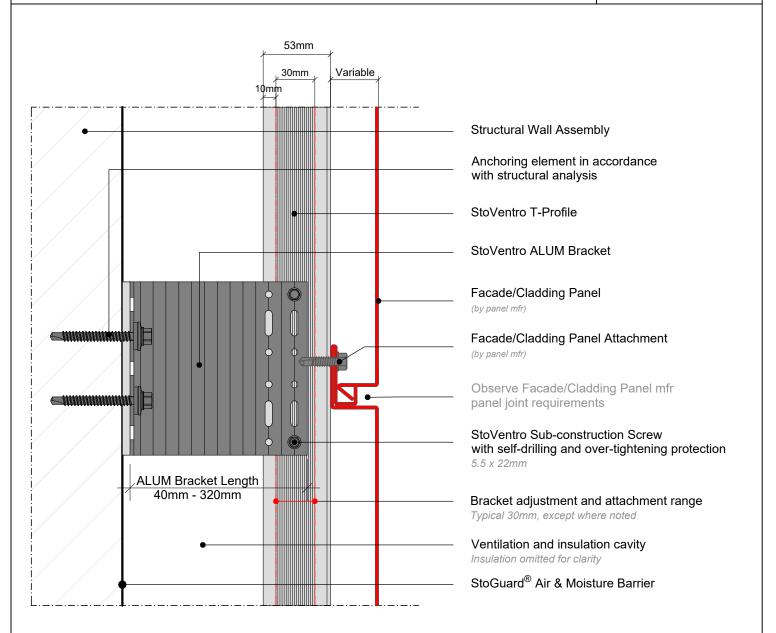
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System buildup with Metal Panels Aluminum Brackets with Thermal Blocking Element Section View Date: May 2021

Detail No.: 90.Sc.023



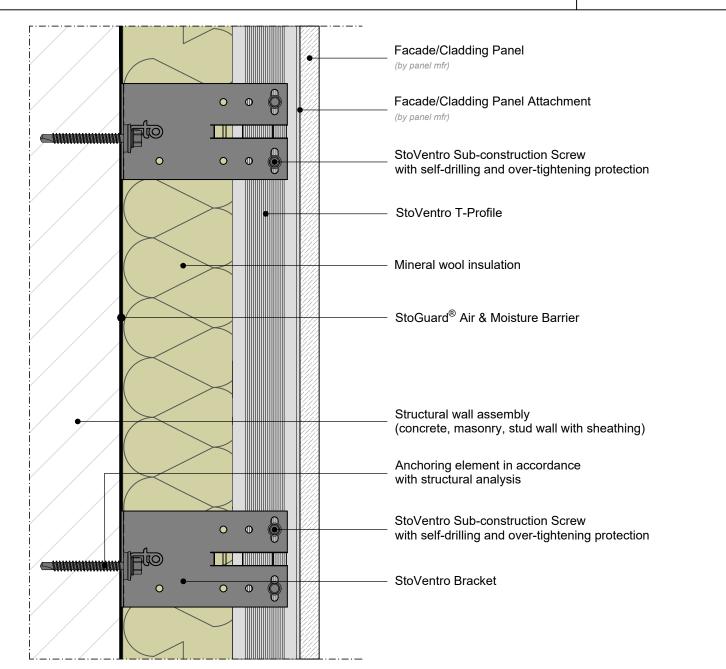
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Rainscreen panel installation

Section View



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Date: May 2021

Detail No.: 90.Sc.030



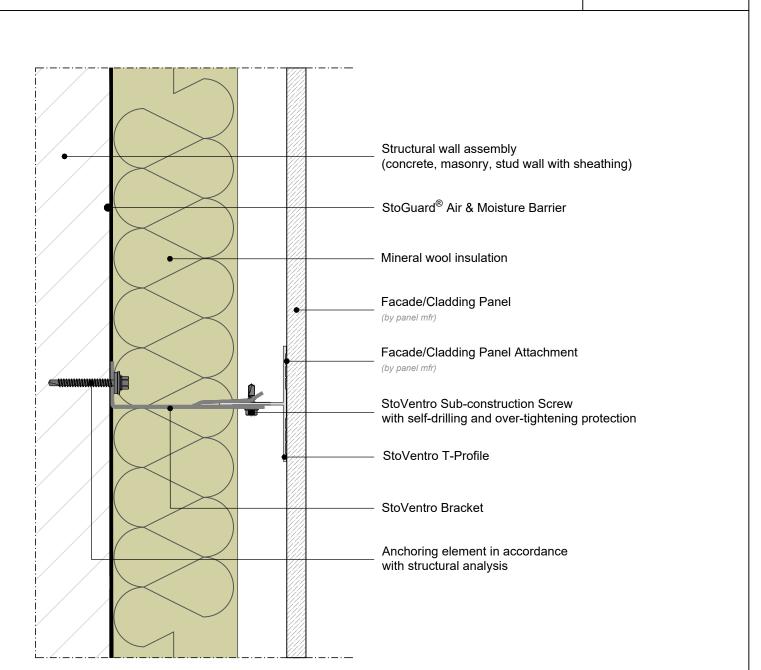
Date: May 2021

Detail No.: 90.Sc.031

StoVentro[™] Sub-Construction System

Rainscreen panel installation

Plan View



ATTENTION

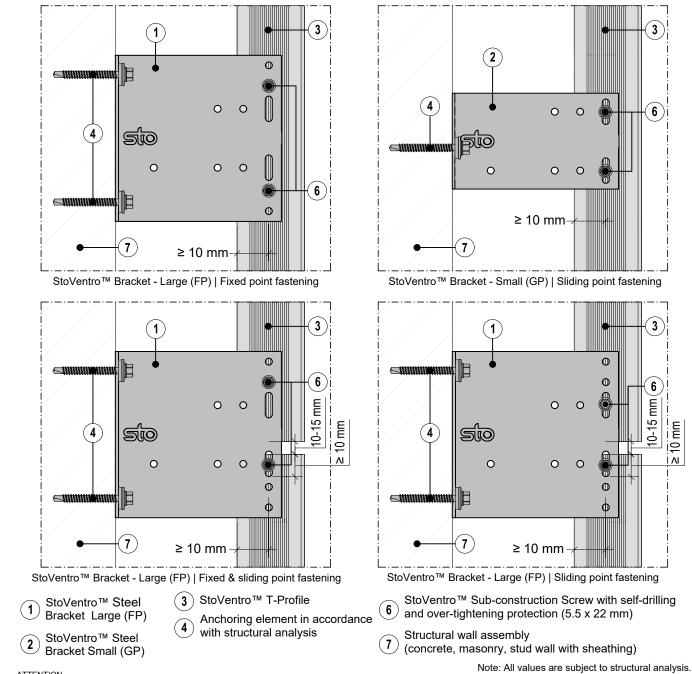
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StoVentro[™] Steel Brackets - Large (FP) and Small (GP), with attachment locations for fixed points and sliding points Section View

Date: January 2024

Detail No.: 90.Sc.045



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

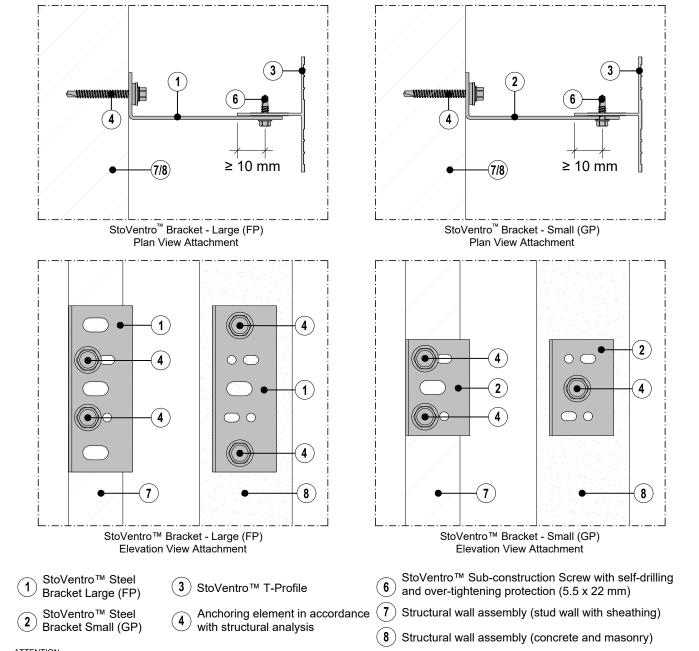
attachment locations

Elevation & Plan Views

Date: January 2024

Detail No.: 90.Sc.046

Note: All values are subject to structural analysis.



ATTENTION

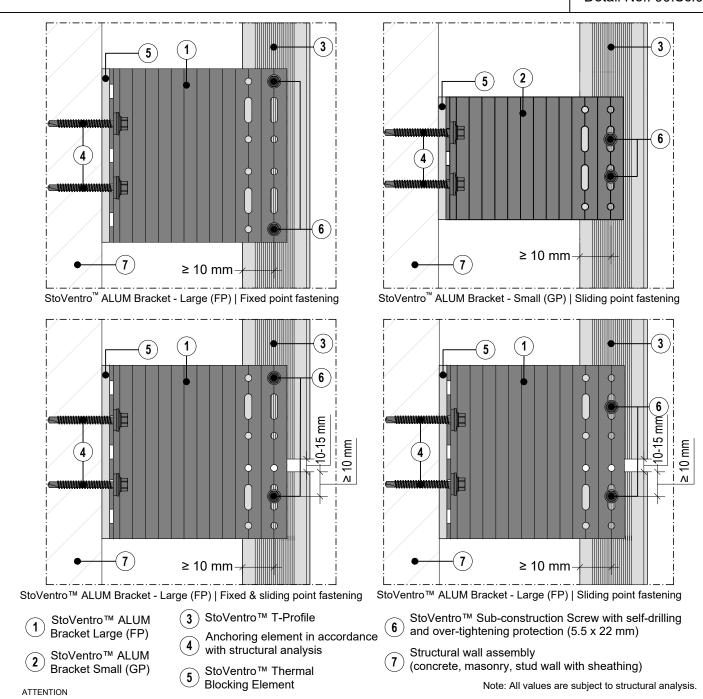
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StoVentro[™] Sub-Construction System

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



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StoVentro[™] Sub-Construction System

StoVentro[™] Aluminum Brackets - Large (FP) and Small (GP)

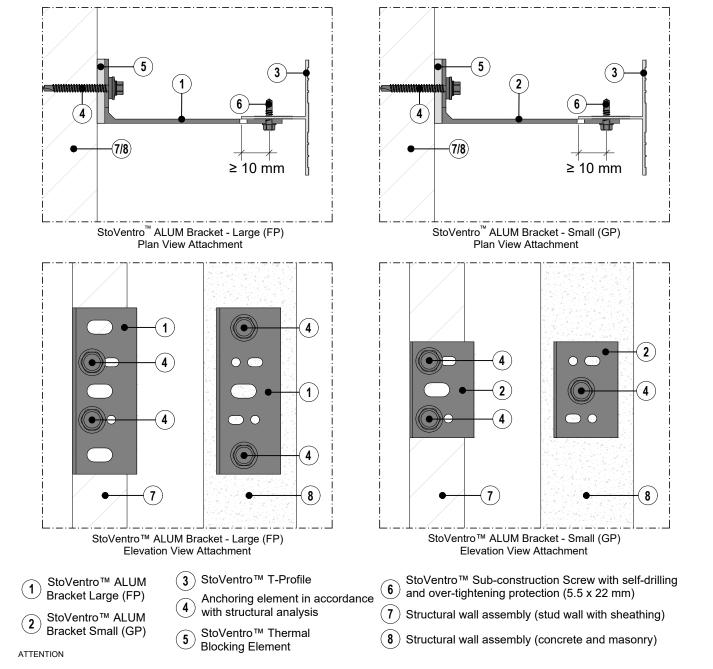
attachment locations

Elevation & Plan Views

Date: May 2021

Detail No.: 90.Sc.048

Note: All values are subject to structural analysis.



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Date: May 2021

Detail No.: 90.Sc.055

StoVentro[™] Sub-Construction System

Installation at grade with Sto Ventilation Profile

Section View

Structural wall assembly (concrete, masonry, stud wall with sheathing) StoGuard[®] Air & Moisture Barrier Mineral wool insulation Anchoring element in accordance with structural analysis 0 0 StoVentro Bracket Fid \square StoVentro Sub-construction Screw 0 0 0 Ĭ with self-drilling and over-tightening protection StoVentro T-Profile Facade/Cladding Panel Attachment (by panel mfr) Facade/Cladding Panel (by panel mfr) Sto Ventilation Profile Coat the profile black in the joint area Sto Starter Profile $^{\circ}$ 0 Alternate cladding or finish (Not Shown) 0 0 0 Observe Facade/Cladding Panel mfr grade requirements

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StoVentro[™] Sub-Construction System Date: May 2021 Installation at grade with Sto Ventilation Profile Section View Detail No.: 90.Sc.065 Structural wall assembly (concrete, masonry, stud wall with sheathing) StoGuard[®] Air & Moisture Barrier Mineral wool insulation StoVentro Sub-construction Screw M 0 O with self-drilling and over-tightening protection PIO StoVentro Bracket 0 0 0 Anchoring element in accordance with structural analysis StoVentro T-Profile Facade/Cladding Panel Attachment (by panel mfr) Facade/Cladding Panel (by panel mfr) Ensure air and moisture barrier continuity with StoGuard L Flashing to support Ventilation Profile (by others) Compatible foundation waterproofing Rigid Insulation with protective cover (by others) 0 Sto Ventilation Profile 0 Coat the profile black in the joint area 0 0 0 0 0 **Observe Facade/Cladding Panel** 0 mfr grade requirements Splash zone / drainage condition

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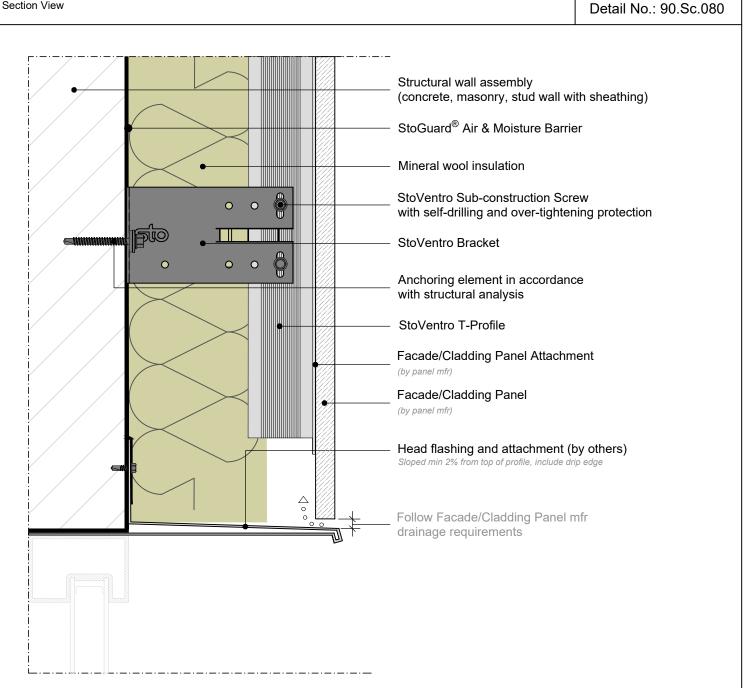


Date: May 2021

StoVentro[™] Sub-Construction System

Installation at Window Head with head flashing

Section View



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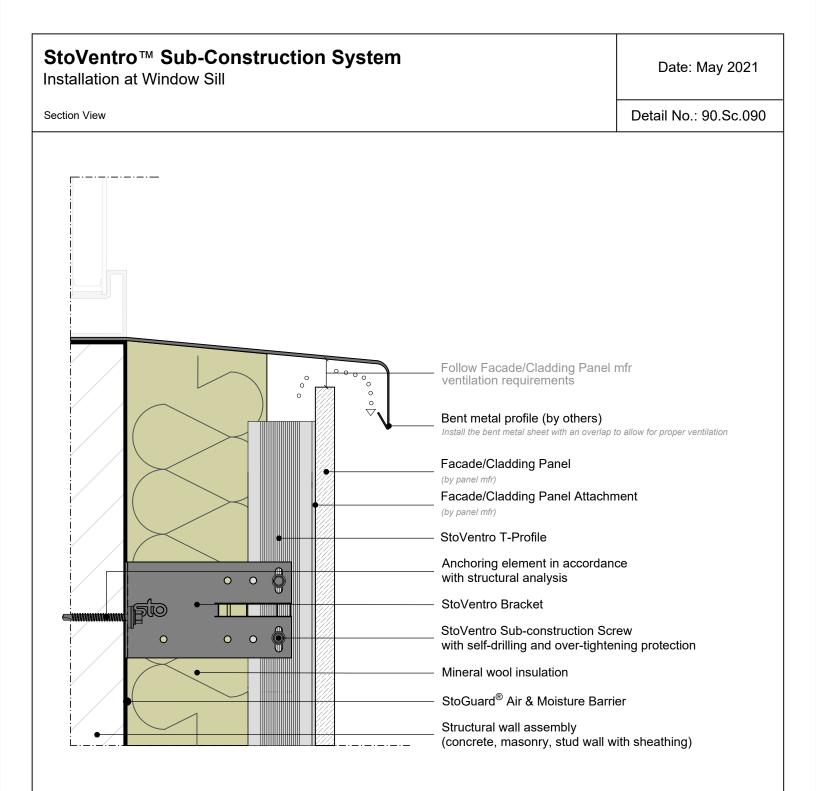


StoVentro[™] Sub-Construction System Date: May 2021 Installation at Window Jamb with Backer Rod and Sealant Joint Plan View Detail No.: 90.Sc.085 Structural wall assembly (concrete, masonry, stud wall with sheathing) StoGuard[®] Air & Moisture Barrier Mineral wool insulation Anchoring element in accordance with structural analysis StoVentro Bracket StoVentro T-Profile ***** StoVentro Sub-construction Screw with self-drilling and over-tightening protection Facade/Cladding Panel Attachment (by panel mfr) Facade/Cladding Panel (by panel mfr) Install Sto L-Profile as needed to stiffen corner Backer Rod and Sealant Joint (by others) Metal window sill (by others) ≤ 16" (≤ 406mm)

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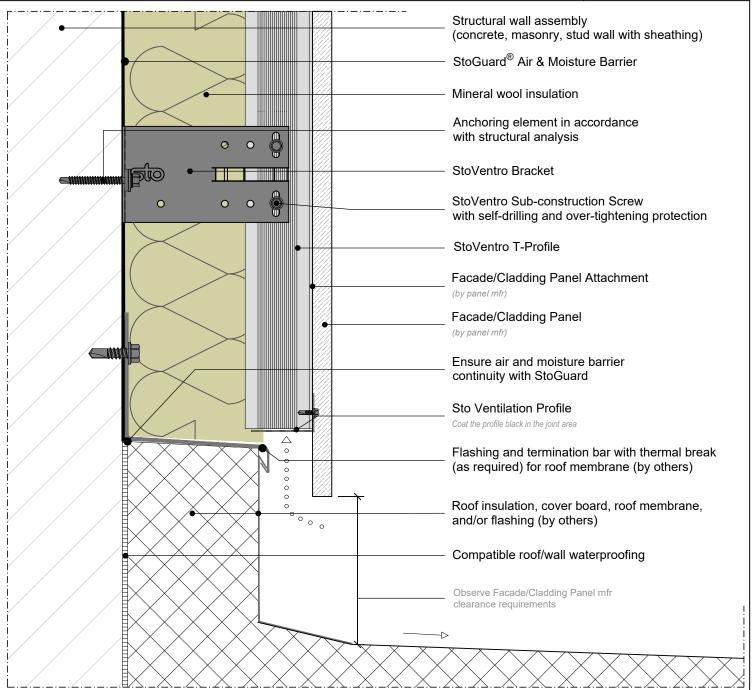
Date: May 2021

Detail No.: 90.Sc.150

StoVentro[™] Sub-Construction System

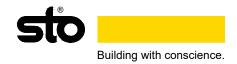
Installation at Roofline

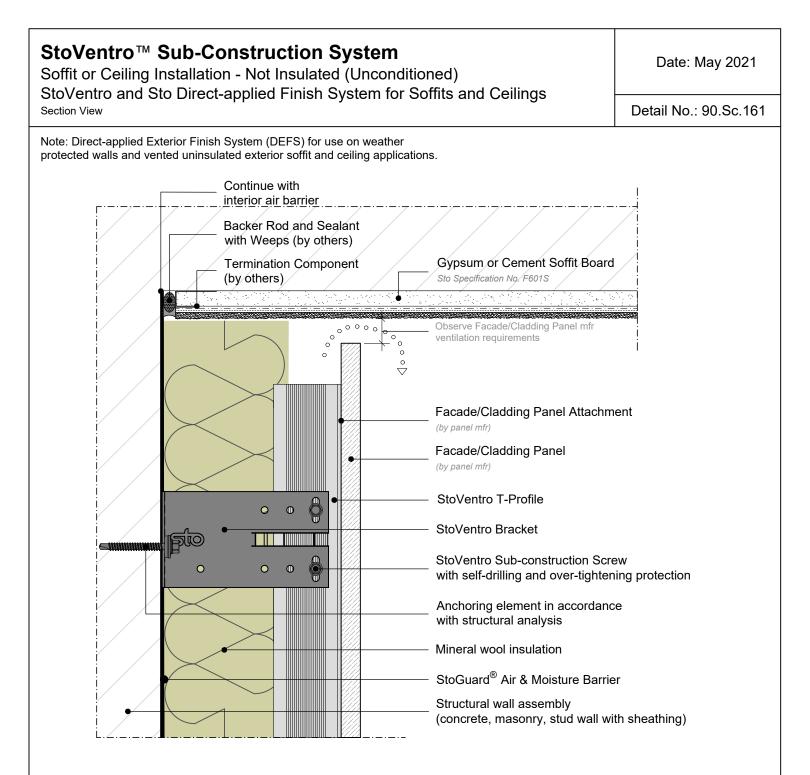
Section View



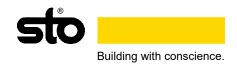
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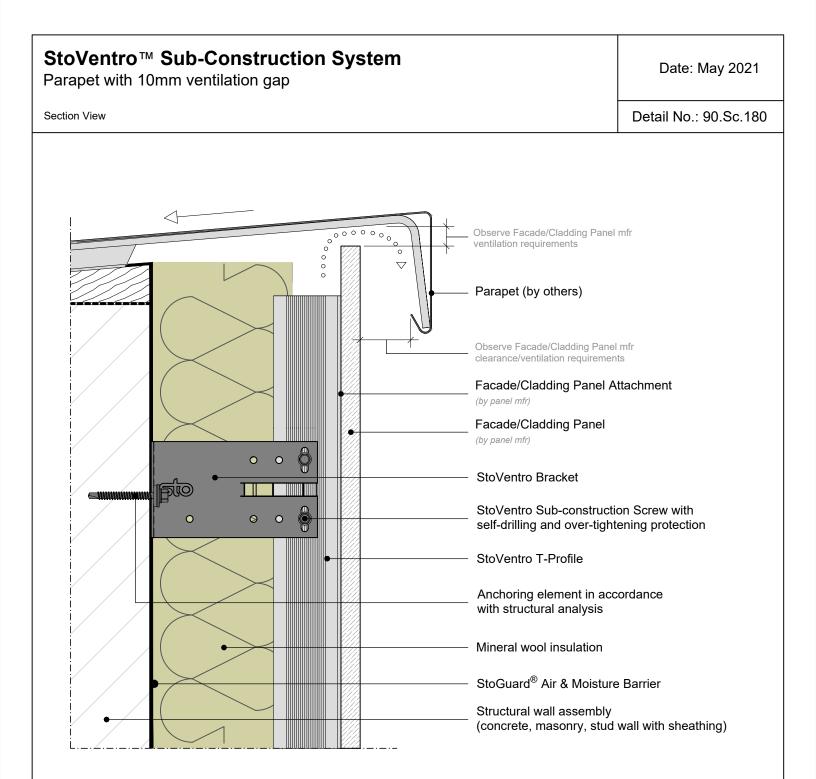
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StoVentro[™] Sub-Construction System Date: May 2021 Scupper Penetration with Backer Rod and Sealant Detail No.: 90.Sc.300 Plan View StoGuard[®] Air & Moisture Barrier Mineral wool insulation StoVentro Sub-construction Screw with self-drilling and over-tightening protection StoVentro T-Profile StoVentro Bracket Backer Rod and Sealant (by others) Observe Facade/Cladding Panel mfr transition/sealant requirements StoGuard Transition Component Scupper Assembly with drip edge (by others) Observe Facade/Cladding Panel mfr transition/sealant requirements Backer Rod and Sealant (by others) StoVentro T-Profile Facade/Cladding Panel Attachment (by panel mfr) Facade/Cladding Panel (by panel mfr) Anchoring element in accordance with structural analysis Structural wall assembly (concrete, masonry, stud wall with sheathing)

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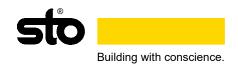


StoVentro™ Sub-Construction System Date: May 2021 Section View Detail No.: 90.Sc.301 Image: Section View Anchoring element in accordance with structural analysis StoVentro Bracket StoVentro Bracket StoVentro Sub-construction Screw with self-drilling and over-tightening protection StoGuard® Air & Moisture Barrier



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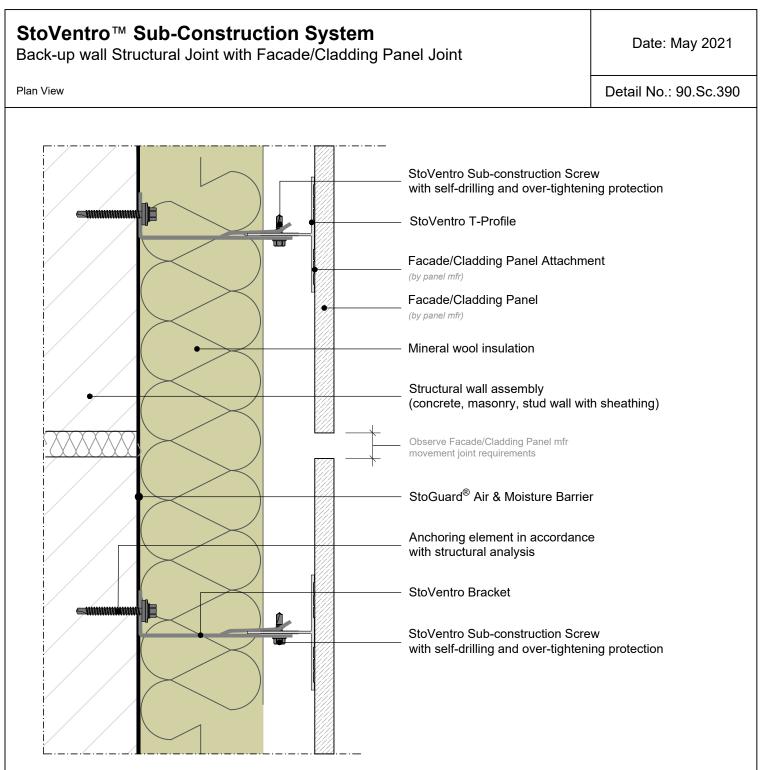


StoVentro[™] Sub-Construction System Date: May 2021 Penetration with Backer Rod and Sealant Plan View Detail No.: 90.Sc.330 StoGuard[®] Air & Moisture Barrier Mineral wool insulation StoVentro Sub-construction Screw with self-drilling and over-tightening protection mmmmm StoVentro Bracket Backer Rod & Sealant (by others) Penetration Element (by others) Attachment (by others) StoVentro T-Profile Facade/Cladding Panel Attachment (by panel mfr) Facade/Cladding Panel (by panel mfr) Anchoring element in accordance with structural analysis Structural wall assembly (concrete, masonry, stud wall with sheathing)

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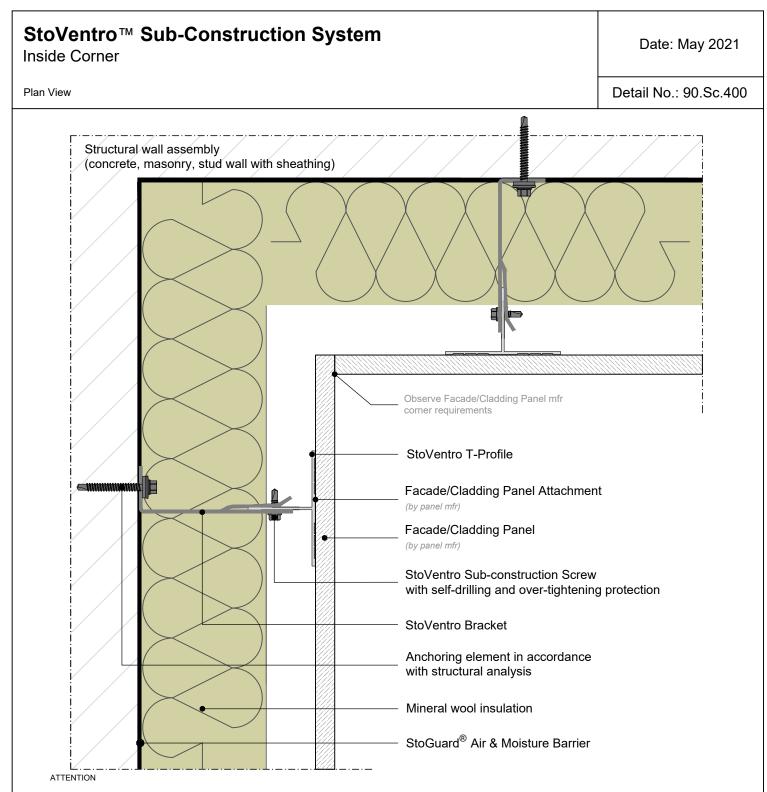
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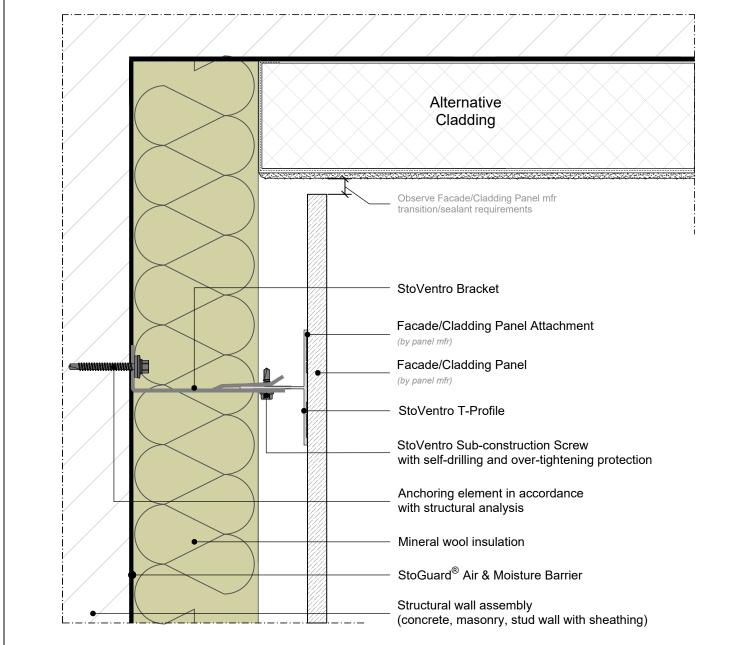
StoVentro[™] Sub-Construction System

Installation at Inside Corner to alternative facade

Plan View

Date: May 2021

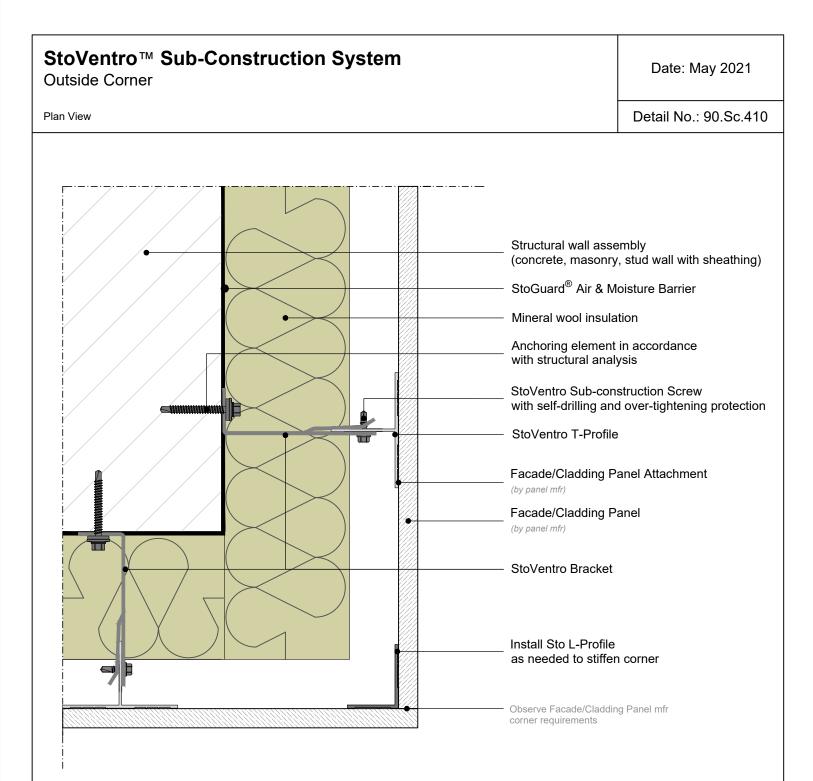
Detail No.: 90.Sc.409



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