

StoVentec for Masonry Veneer Facades (MVF)

Detail Booklet
Series 90.M.xx | October 2025

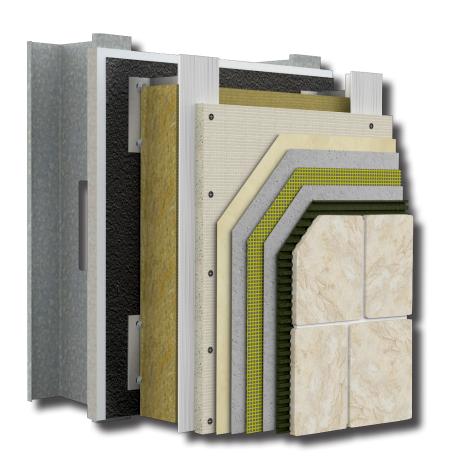


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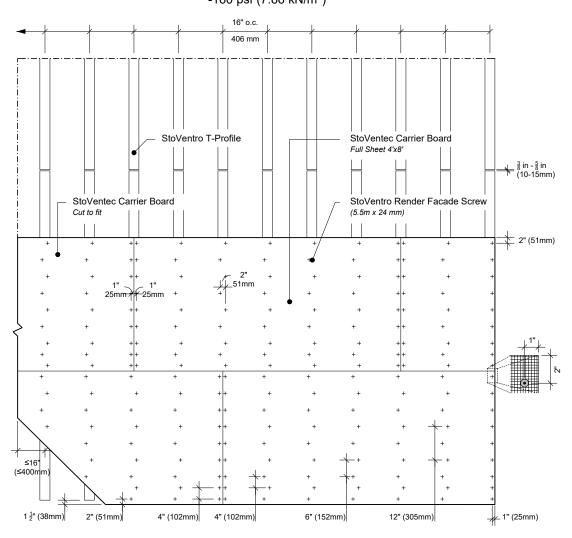
Date: May 2025

StoVentec® for Masonry Veneer Facades

StoVentec Carrier Board Attachment to StoVentro[™] T-Profile, spaced at 16" o.c.(406mm) Field and Edge fastening of StoVentec Carrier Board to StoVentro T-Profiles.

Detail No.: 90.M.001

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



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StoVentec[®] for Masonry Veneer Facades StoVentro[™] Bracket Installation, spaced at 36" o.c. (914mm)

Detail No.: 90.M.002

Date: May 2025

Section View

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing: -160 psf (7.66 kN/m²) StoVentro™ Bracket Small (GP) StoGuard® Air & Water-Resistive Barrier StoVentro Render Facade Screw (5.5 x 24mm) 36' Anchoring element in accordance with structural analysis StoVentro™ Bracket Large (FP) StoVentro™ Sub-construction Screw with self-drilling and over-tightening protection (5.5 x 22 mm) StoVentro™ T-Profile 36 Structural wall assembly (concrete, masonry, stud wall with sheathing) StoVentro™ Bracket Small (GP) ATTENTION

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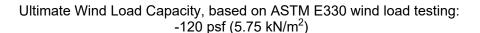


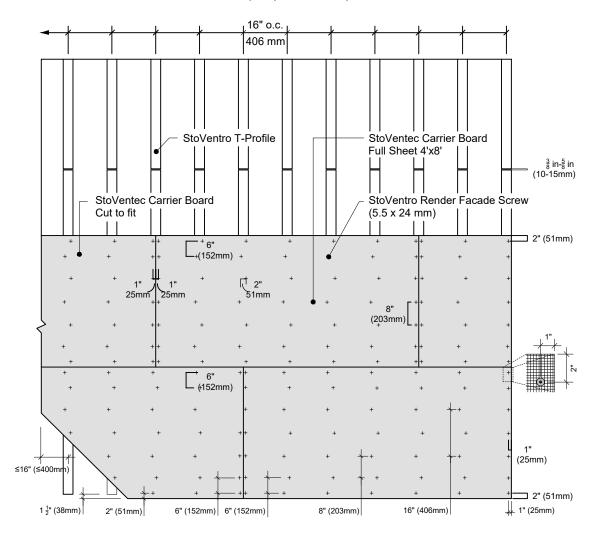
StoVentec Carrier Board (4x8 feet) Attachment (8 inch max. fastener spacing) to StoVentro[™] T-Profile, spaced at 16" o.c.(406mm), Field and Edge fastening of StoVentec Carrier Board to StoVentro T-Profiles.

Elevation View

Date: October 2025

Detail No.: 90.M.004





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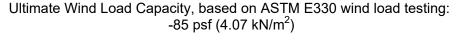


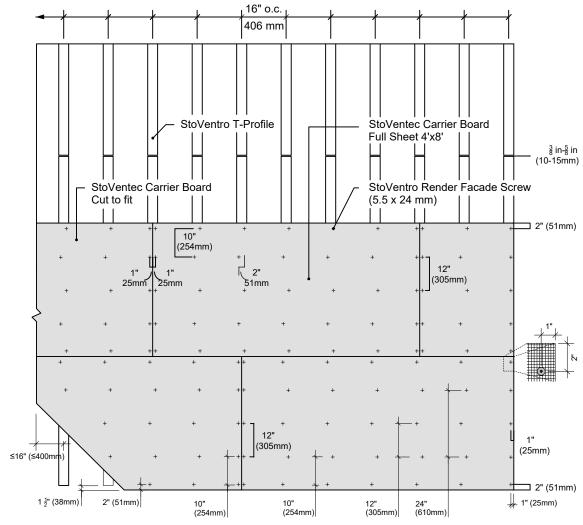
StoVentec Carrier Board (4x8 feet) Attachment (12 inch max. fastener spacing) to StoVentro[™] T-Profile, spaced at 16" o.c.(406mm), Field and Edge fastening of StoVentec Carrier Board to StoVentro T-Profiles.

Elevation View

Date: October 2025

Detail No.: 90.M.005





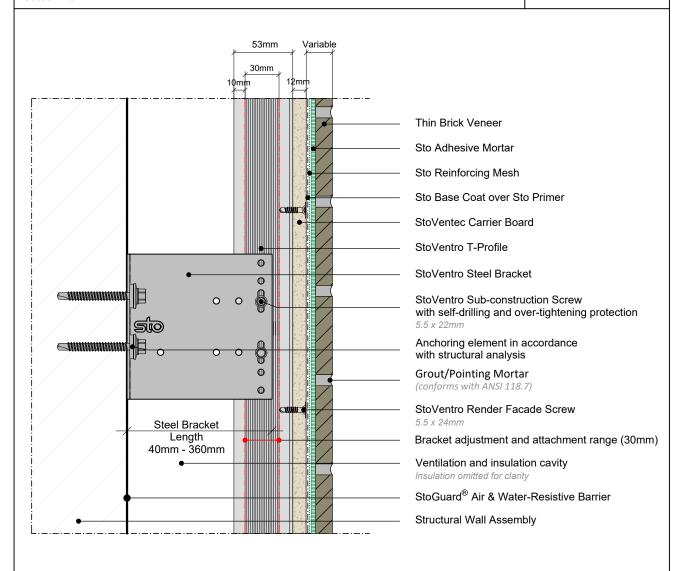
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System buildup with Thin Brick Veneer Steel Brackets (Zn-Al-Mg coated or Stainless) Section View Date: October 2025

Detail No.: 90.M.020



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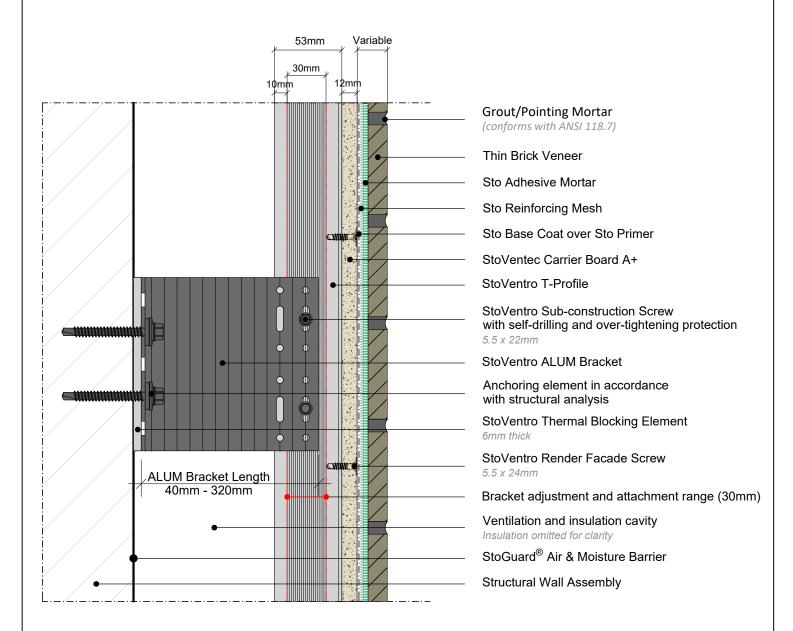
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StoVentec® for Masonry Veneer Facades

System buildup with Thin Brick Veneer Aluminum Brackets

Section View Detail No.: 90.M.021



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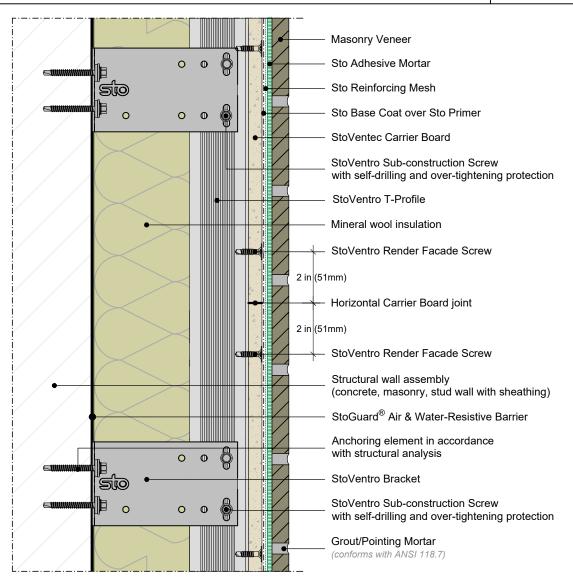


Date: October 2025

StoVentec® for Masonry Veneer Facades

StoVentec Carrier Board Installation at Horizontal Board Joint

Section View Detail No.: 90.M.030



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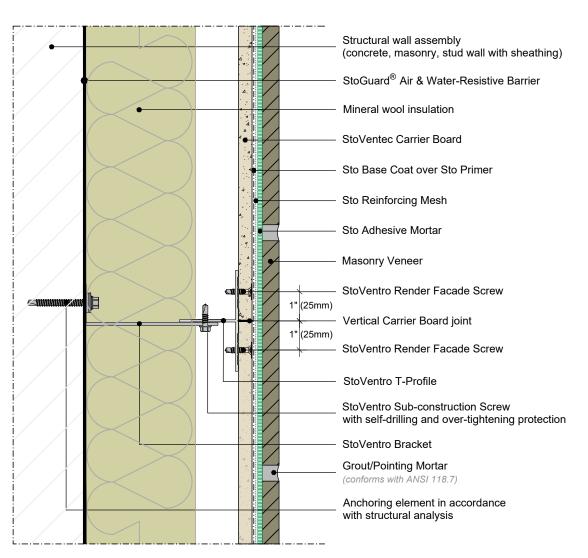


StoVentec Carrier Board Installation at Vertical Board Joint

Date: October 2025

Plan View

Detail No.: 90.M.031



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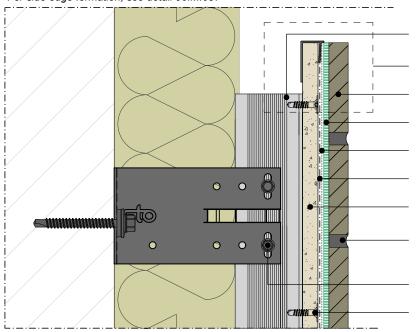


System edge formations with surrounding Sto Edge Protection Profiles Top edge formation, used only at non-weather exposed areas

Date: June 2021

Detail No.: 90.M.035

For bottom edge formation, see detail 90.M.036 For side edge formation, see detail 90.M.037



StoVentro T-Profile

See Edge Formation Options Below

Masonry Veneer

Sto Adhesive Mortar

Sto Reinforcing Mesh

Sto Base Coat over Sto Primer

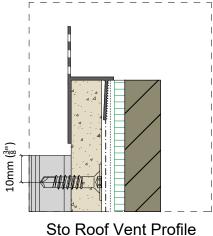
StoVentec Carrier Board A+

Grout/Pointing Mortar

(conforms with ANSI 118.7)

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

StoVentro Render Facade Screw



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



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

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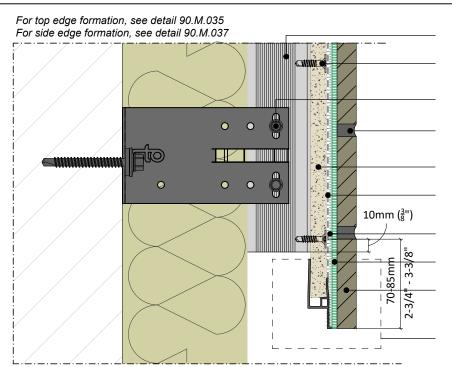


System edge formations with surrounding Sto Edge Protection Profiles Bottom edge formation

Section View

Date: June 2021

Detail No.: 90.M.036



StoVentro T-Profile

StoVentro Render Facade Screw

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

Grout/Pointing Mortar

(conforms with ANSI 118.7)

StoVentec Carrier Board A+

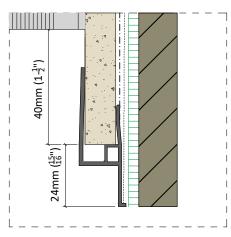
Sto Base Coat over Sto Primer

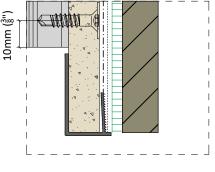
Sto Reinforcing Mesh

Sto Adhesive Mortar

Masonry Veneer

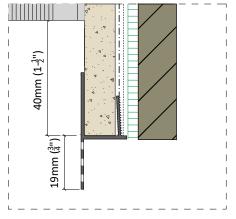
See Edge Formation Options Below





Sto Edge Protection Profile G

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



Sto Roof Vent Profile

Typically used at bottom of system

Sto Edge Protection Profile GT

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

ATTENTION

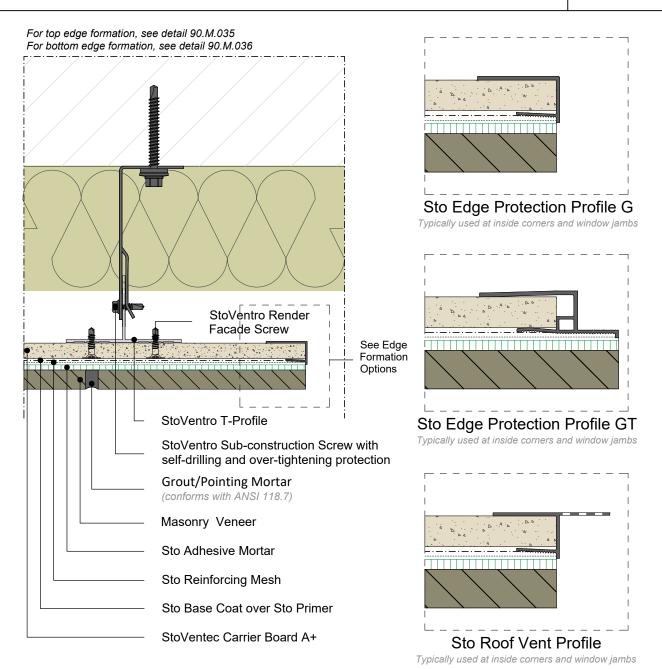
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System edge formations with surrounding Sto Edge Protection Profiles Side edge formation, used only at non-weather exposed areas

Date: June 2021

Detail No.: 90.M.037



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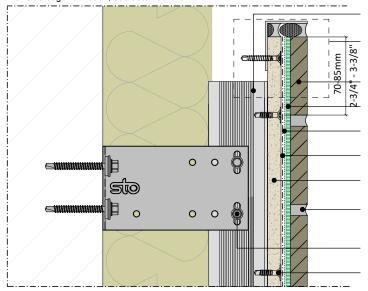
System edge formations with surrounding aluminum Top edge formation with StoSeal STPE

Section View

Date: October 2025

Detail No.: 90.M.040

For bottom edge formation, see detail 90.M.041 For side edge formation, see detail 90.M.042



StoVentro T-Profile

See Edge Formation Options Below

Masonry Veneer

Sto Adhesive Mortar

Sto Reinforcing Mesh

Sto Base Coat over Sto Primer

StoVentec Carrier Board

Grout/Pointing Mortar

(conforms with ANSI 118.7)

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

StoVentro Render Facade Screw

L = Depth to face of Thin Verleer $2mm \left(\frac{5}{64}"\right)$ $12mm \left(\frac{3}{2}"\right)$ $12mm \left(\frac{3}{8}"\right)$ Overhang optional

Aluminum L-Rail, with overhang

Typically used at top of system, expansion joints, window sills, and soffits (by others)

StoSeal STPE Sealant over half-round Backer Rod

Aluminum L-Rail (by others)

Backer Rod and StoSeal STPE Sealant

StoVentro Render Facade Screw (5.5 x 24mm) Horizontal spacing, approx. 300mm (11-3/4"), Edge spacing 20-25mm ($\frac{3}{4}$ "-1")

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System edge formations with surrounding aluminum Bottom edge formation with StoSeal STPE $\,$

Section View

Date: October 2025

Detail No.: 90.M.041

For top edge formation, see detail 90.M.040
For side edge formation, see detail 90.M.042

StoVentro T-Profile

StoVentro Render Facade Screw

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

Grout/Pointing Mortar

(conforms with ANSI 118.7)

StoVentec Carrier Board

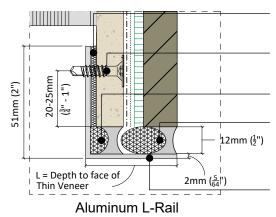
Sto Base Coat over Sto Primer

Sto Reinforcing Mesh

Sto Adhesive Mortar

Masonry Veneer

See Edge Formation Options Below



Stick StoGuard Tape flush with the profile edge (cut to size)

StoVentro Render Facade Screw (5.5 x 24mm) Horizontal spacing, approx. 300mm (11-3/4"), Edge spacing 20-25mm ($\frac{3}{4}$ "-1")

StoSeal STPE Sealant over half-round Backer Rod

Backer Rod and StoSeal STPE Sealant

Aluminum L-Rail (by others)

Typically used at bottom edge of expansion joints, bottom of system, window heads, and soffits (by others)

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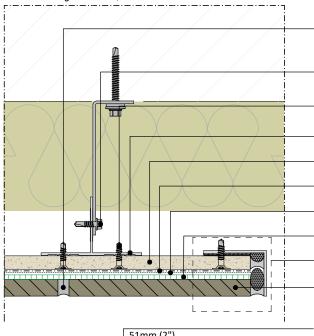
System edge formations with surrounding aluminum Side edge formation with StoSeal STPE

Plan View

Date: October 2025

Detail No.: 90.M.042

For top edge formation, see detail 90.M.040 For bottom edge formation, see detail 90.M.041



51mm (2") 20-25mm - 1") Depth to face of Thin Veneer $2mm \left(\frac{5}{64} \right)$ Aluminum L-Rail

Typically used at side edge of expansion joints,

side edge of system, window jambs, and inside corners (by others)

Grout/Pointing Mortar

(conforms with ANSI 118.7)

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

StoVentro Render Facade Screw

StoVentro T-Profile

StoVentec Carrier Board

Sto Base Coat over Sto Primer

Sto Reinforcing Mesh

Sto Adhesive Mortar

See Edge Formation Options

Masonry Veneer

StoVentro Render Facade Screw (5.5 x 24mm) Vertical spacing, approx. 300mm (11-3/4"), Edge spacing 20-25mm ($\frac{3}{4}$ "-1")

Stick StoGuard Tape flush with the profile edge (cut to size)

StoSeal STPE Sealant over half-round Backer Rod

Backer Rod and StoSeal STPE Sealant

Aluminum L-Rail (by others)

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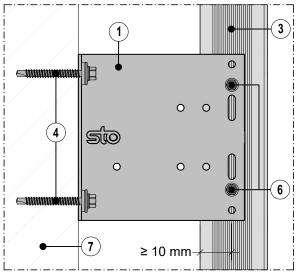
StoVentro™ Sub-Construction System

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

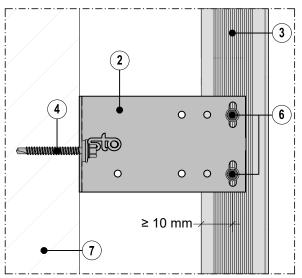
Section View

Date: January 2024

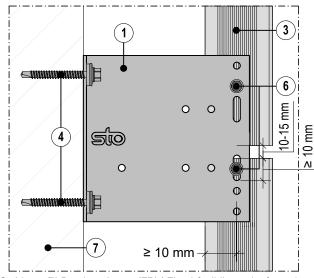
Detail No.: 90.Sc.045



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

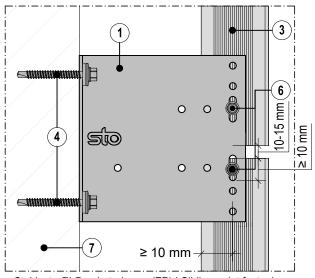


StoVentro™ Bracket - Small (GP) | Sliding point fastening



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

- 1 StoVentro™ Steel Bracket Large (FP)
- 2 StoVentro™ Steel Bracket Small (GP)
- 3 StoVentro™ T-Profile
- Anchoring element in accordance with structural analysis



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

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

Note: All values are subject to structural analysis.

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StoVentro™ Sub-Construction System

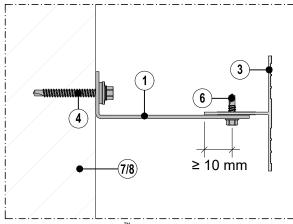
StoVentro™ Steel Brackets - Large (FP) and Small (GP) attachment locations

Elevation & Plan Views

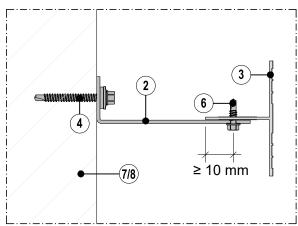
Date: January 2024

Detail No.: 90.Sc.046

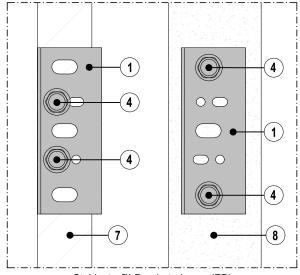
Note: All values are subject to structural analysis.



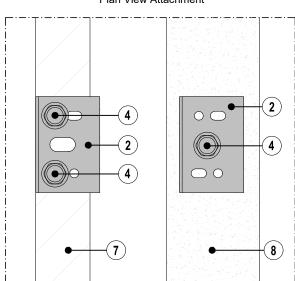
StoVentro[™] Bracket - Large (FP) Plan View Attachment



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)

StoVentro™ Steel Bracket Small (GP)

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

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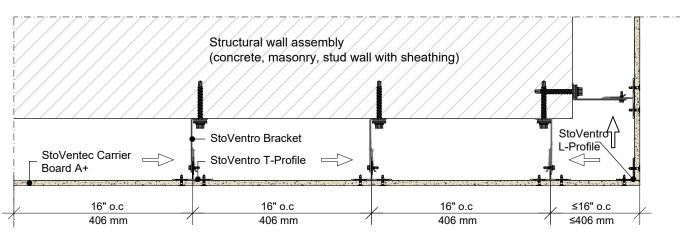
StoVentec® for Masonry Veneer Facades

to the StoVentro[™] T-profile and alignment of the wall brackets

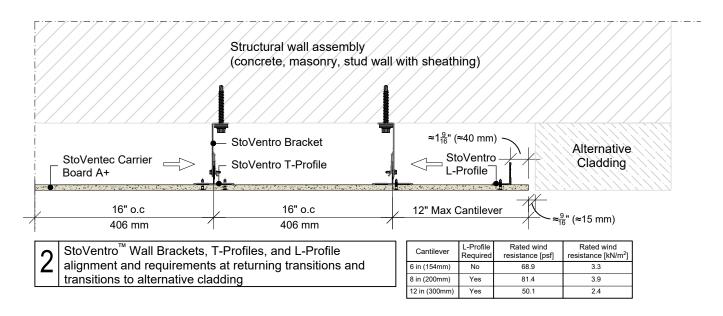
StoVentro[™] Sub-construction Installation at outside corners, jambs, returning transitions, and transitions to alternative cladding

Plan View Detail No.: 90.M.049

Recommended fastening direction for connection of the StoVentro[™] Wall Brackets



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



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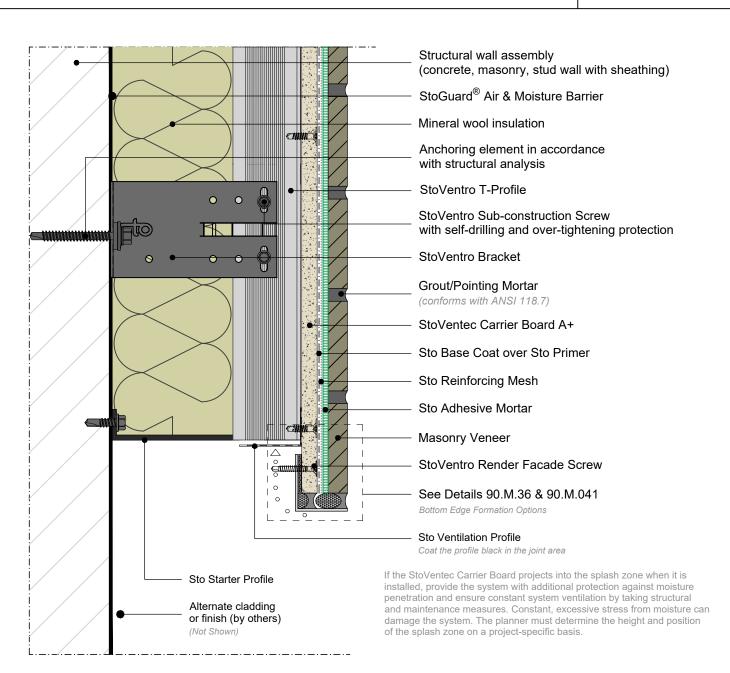


Installation at grade with Sto Ventilation Profile, uninsulated (exposed substrate at grade)

Section View

Date: June 2021

Detail No.: 90.M.055



ATTENTION

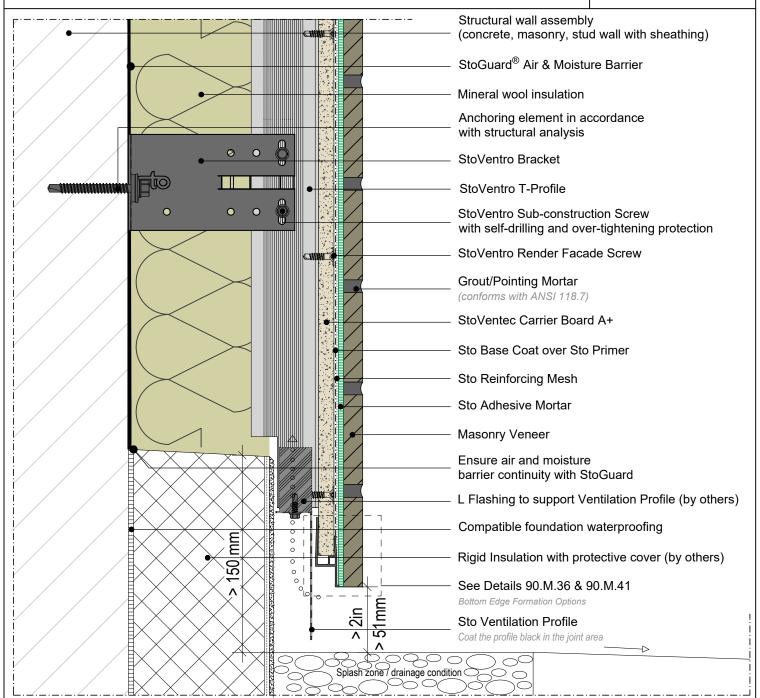
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StoVentec® for Masonry Veneer Facades

Installation at grade with Sto Ventilation Profile, insulated

Section View Detail No.: 90.M.065



ATTENTION

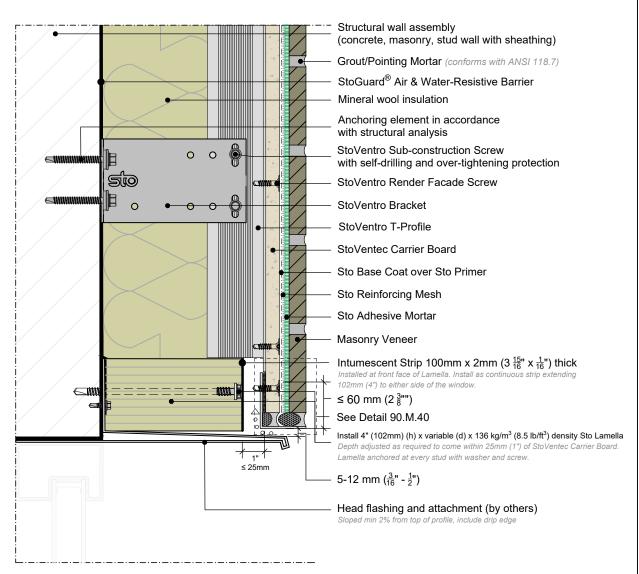
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Fire protection at Window Head with Sto Lamella and Intumescent Tape CAN ULC S134 Compliant, Intertek Design Listing No. STO/CWP 25-01 NFPA 285 Compliant, Intertek Design Listing No. STO/CWP 30-02 Section View

Date: October 2025

Detail No.: 90.M.080



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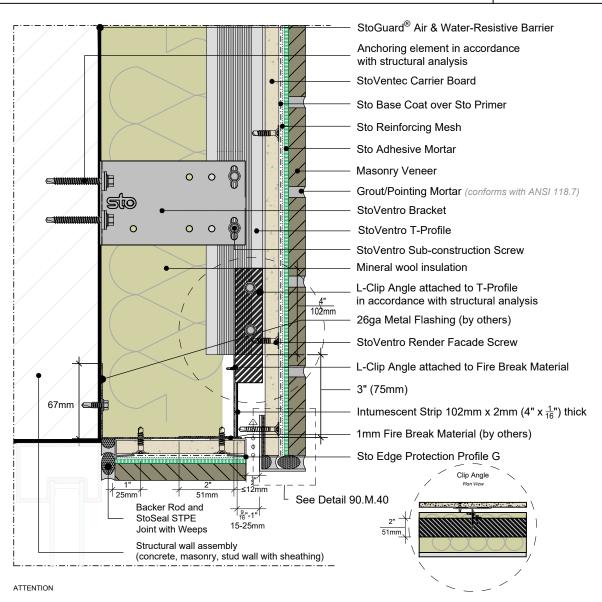
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Fire protection at Window Head with Fire Break Material CAN ULC S134 Compliant, Intertek Deisgn Listing No. STO/CWP 25-01 NFPA 285 Compliant, Intertek Design Listing No. STO/CWP 30-02 Section View

Date: October 2025

Detail No.: 90.M.081



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Date: October 2025

StoVentec® for Masonry Veneer Facades

ATTENTION

Window Jamb with Backer Rod and StoSeal STPE Sealant Joint

Plan View Detail No.: 90.M.085

Grout/Pointing Mortar (conforms with ANSI 118.7) Structural wall assembly (concrete, masonry, stud wall with sheathing) StoGuard® Air & Water-Resistive Barrier Mineral wool insulation Anchoring element in accordance with structural analysis StoVentro Bracket StoVentro Sub-construction Screw with self-drilling and over-tightening protection StoVentec Carrier Board ~mmmammi StoVentro T-Profile StoVentro Render Facade Screw Sto Base Coat over Sto Primer Sto Reinforcing Mesh Sto Adhesive Mortar Masonry Veneer Install Sto L-Profile with a max. installation length of 3m without torsional stress Sto Mesh Corner Bead StoSeal STPE Sealant over half-round Backer Rod See Details 90.M.037 & 90.M.042 Side Edge Formation Options Backer Rod and StoSeal STPE Sealant Joint Metal window sill (by others) ≤ 16"

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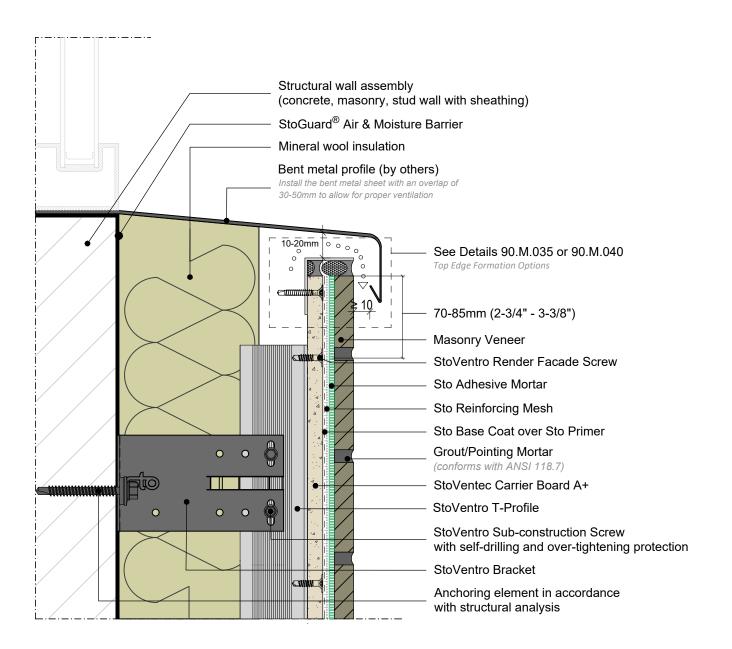
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StoVentec® for Masonry Veneer Facades

Window Sill

Section View Detail No.: 90.M.090



ATTENTION

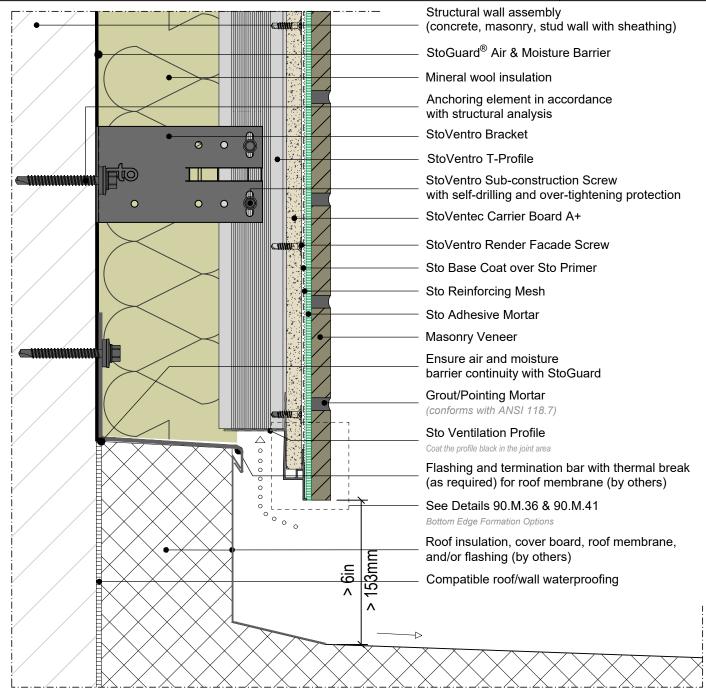
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StoVentec® for Masonry Veneer Facades

Installation at Roofline

Section View Detail No.: 90.M.150



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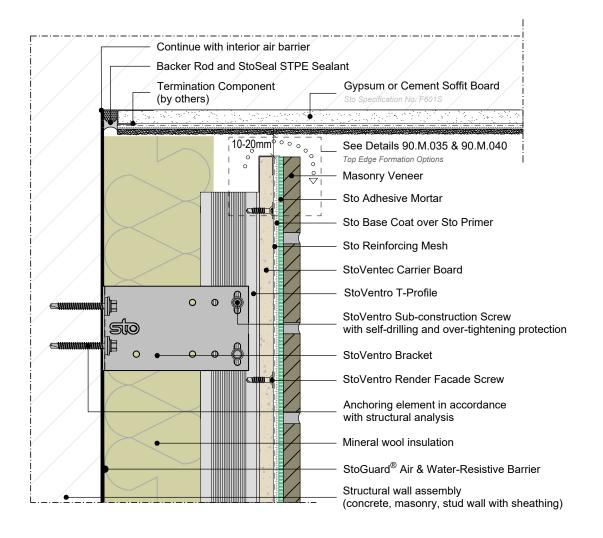


Soffit or Ceiling Installation - Not Insulated (Unconditioned)
StoVentec MVES and Sto Direct-applied Finish System for Soffits and Ceilings
Section View

Date: October 2025

Detail No.: 90.M.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® for Masonry Veneer Facades

O

Parapet with 10mm ventilation gap

Section View Detail No.: 90.M.180

0

Parapet (by others)
See Details 90.M.35 & 90.M.40
Top Edge Formation Options



in accordance with regulations for metalwork in the roofing trade

Anchoring element in accordance with structural analysis

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

Grout/Pointing Mortar

(conforms with ANSI 118.7)

StoVentro T-Profile

StoVentro Bracket

StoVentec Carrier Board A+

Mineral wool insulation

StoVentro Render Facade Screw

Masonry Veneer

Sto Adhesive Mortar

Sto Reinforcing Mesh

Sto Base Coat over Sto Primer

StoGuard® Air & Moisture Barrier

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

ATTENTION

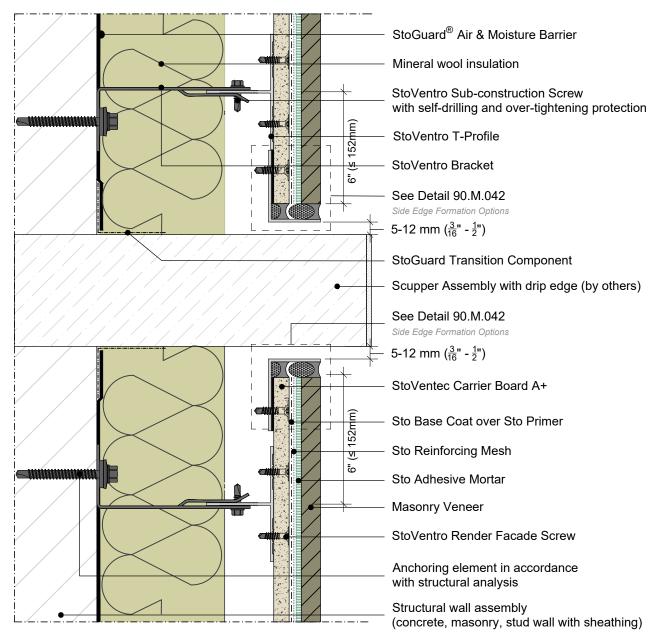
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StoVentec® for Masonry Veneer Facades

Scupper Penetration with Open Joints

Plan View Detail No.: 90.M.300



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StoVentec® for Masonry Veneer Facades

Scupper Penetration, Flashing with Open Joints

Section View Detail No.: 90.M.301



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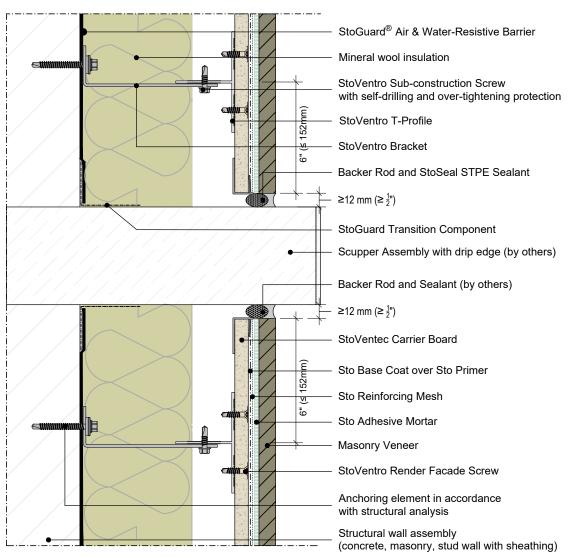


Scupper Penetration with Backer Rod and StoSeal STPE Sealant

Plan View

Date: October 2025

Detail No.: 90.M.302



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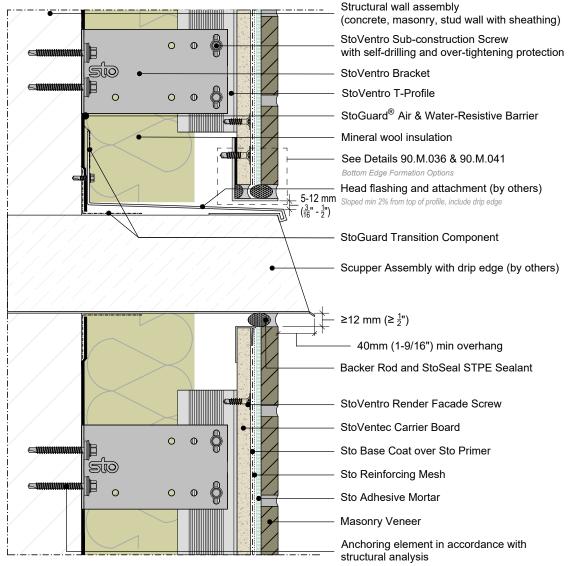
Date: October 2025

StoVentec® for Masonry Veneer Facades

Scupper Penetration, Flashing with Backer Rod and StoSeal STPE

Section View

Detail No.: 90.M.303



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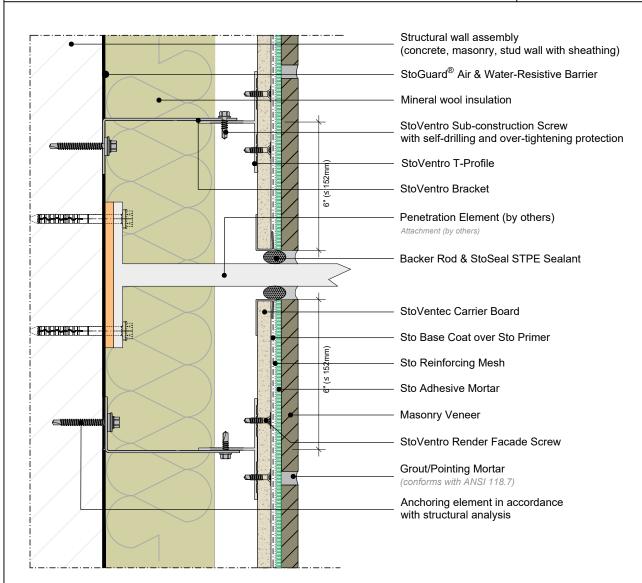


Penetration with Backer Rod and StoSeal STPE Sealant

Plan View

Date: October 2025

Detail No.: 90.M.330



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Date: October 2025

StoVentec® for Masonry Veneer Facades

Wall Structural Joint with Backer Rod and StoSeal STPE Sealant

Plan View Detail No.: 90.M.390

StoVentro Sub-construction Screw with self-drilling and over-tightening protection StoVentro T-Profile StoVentro Render Facade Screw Masonry Veneer Sto Adhesive Mortar Cantilever Grout/Pointing Mortar (conforms with ANSI 118.7) Sto Reinforcing Mesh Sto Base Coat over Sto Primer Sto Edge Protection Profile G Backer Rod and Sealant joint, in accordance with structural analysis Backer Rod and StoSeal STPE Sealant StoVentec Carrier Board StoVentro Render Facade Screw antilever StoVentro L-Profile in accordance with structural analysis Anchoring element in accordance with structural analysis StoVentro Bracket StoVentro Sub-construction Screw with self-drilling and over-tightening protection Mineral wool insulation StoGuard® Air & Water-Resistive Barrier Structural wall assembly (concrete, masonry, stud wall with sheathing)

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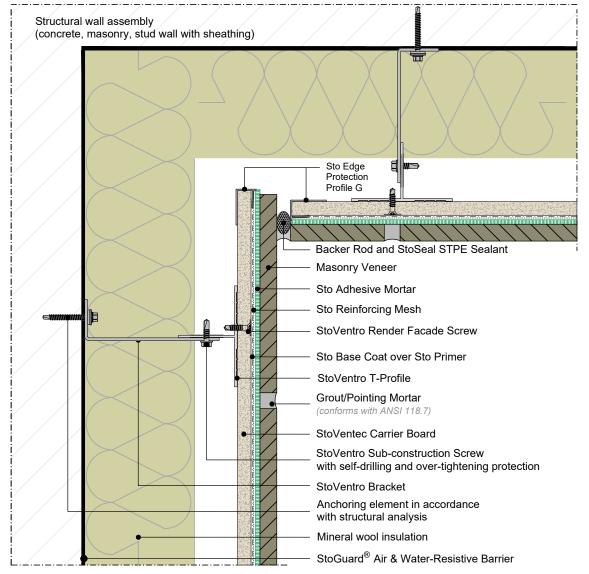


Inside Corner with Backer Rod and StoSeal STPE Sealant Joint

Detail No.: 90.M.400

Date: October 2025

Plan View



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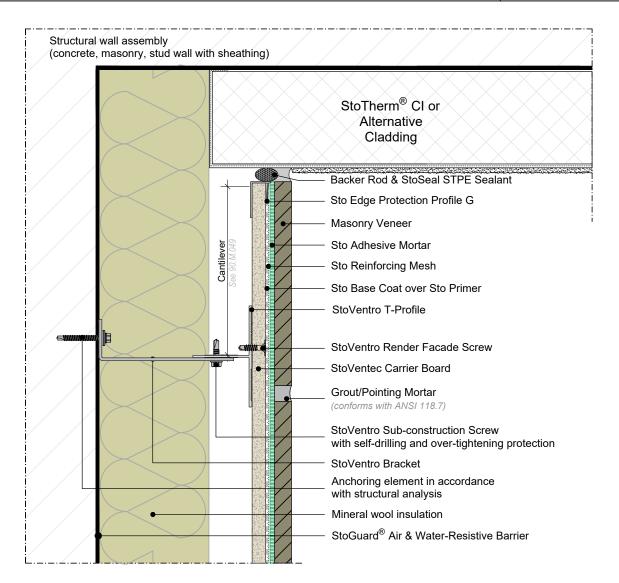


Installation at Inside Corner to alternative facade with backer rod and StoSeal STPE Sealant

Plan View

Date: October 2025

Detail No.: 90.M.409



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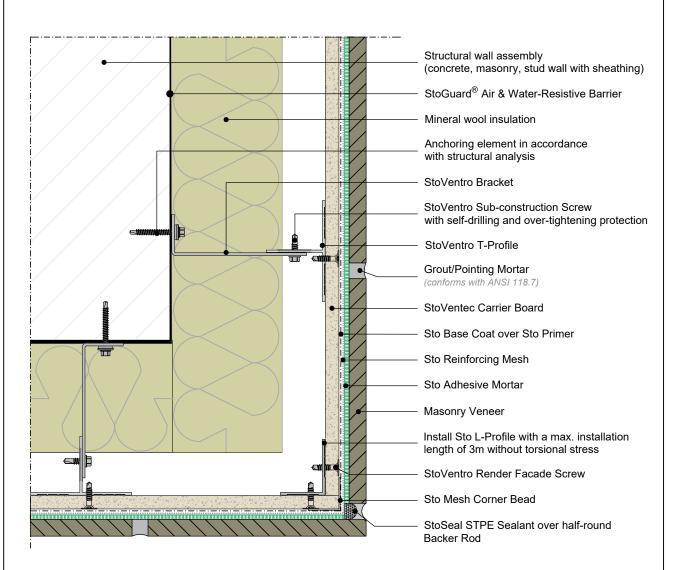


Outside Corner - StoSeal STPE

Date: October 2025

Plan View

Detail No.: 90.M.410



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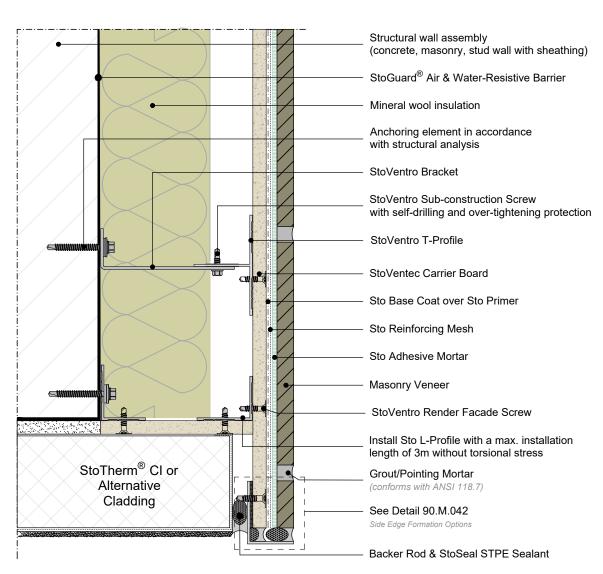


Installation at Outside Corner to alternative facade

Plan View

Date: October 2025

Detail No.: 90.M.419



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Horizontal Expansion Joint with Backer Rod and StoSeal STPE Sealant

Section View

Date: October 2025

Detail No.: 90.M.450

Refer to Design Guide for maximum span without joints Structural wall assembly (concrete, masonry, stud wall with sheathing) StoGuard® Air & Water-Resistive Barrier Mineral wool insulation StoVentro Sub-construction Screw with self-drilling and over-tightening protection SID 1 StoVentro Bracket Anchoring element in accordance with structural analysis StoVentro T-Profile StoVentec Carrier Board StoVentro Render Facade Screw Backer Rod and StoSeal STPE Sealant Joint width should allow for anticipated movement Masonry Veneer Sto Adhesive Mortar Sto Reinforcing Mesh Sto Base Coat over Sto Primer StoVentro Sub-construction Screw with self-drilling and over-tightening protection Side Grout/Pointing Mortar (conforms with ANSI 118.7)

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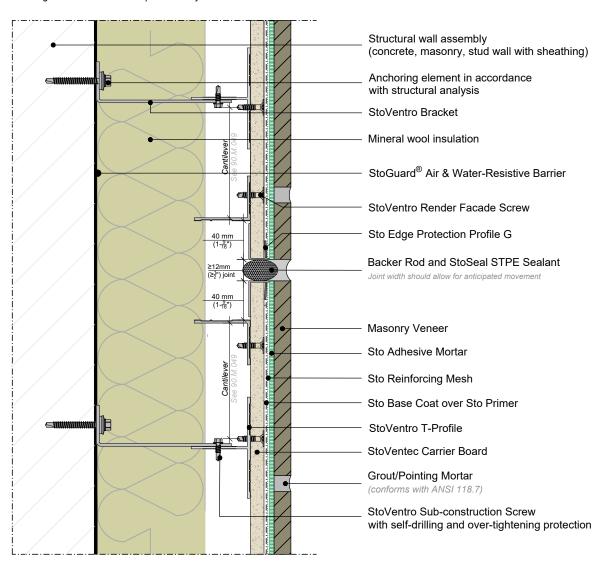
Vertical Expansion Joint with Backer Rod and StoSeal STPE Sealant

Date: October 2025

Plan View

Detail No.: 90.M.460

Refer to Design Guide for maximum span without joints



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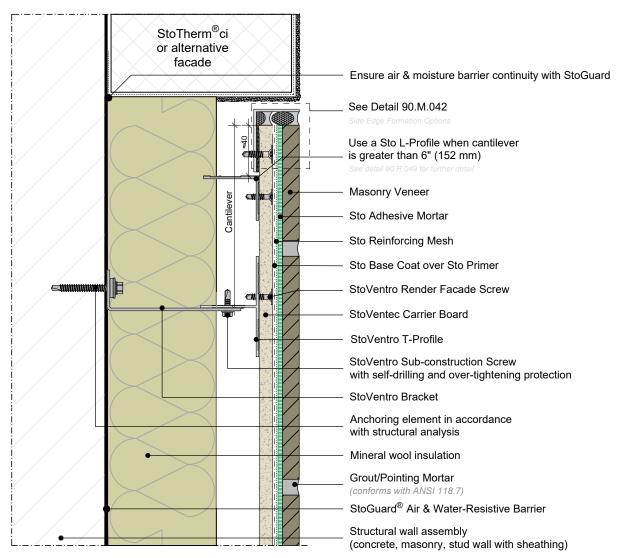


Date: October 2025

StoVentec® for Masonry Veneer Facades

Vertical Transition of StoVentec to Alternative Facade

Plan View Detail No.: 90.M.470



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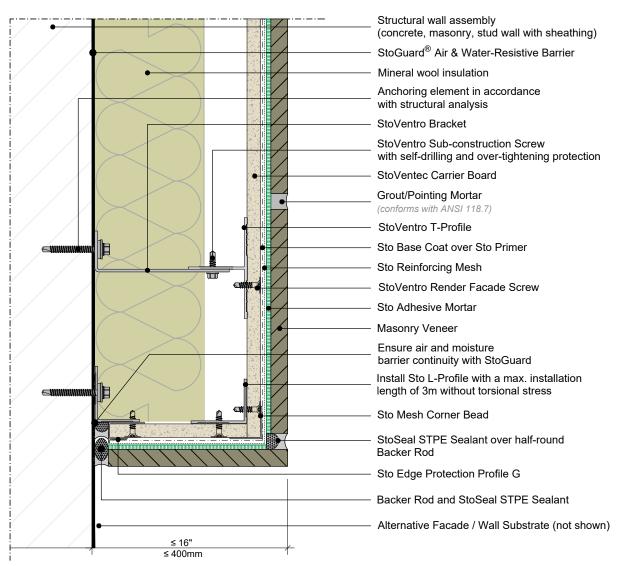


Returning StoVentec to Alternative Facade/Wall Substrate

Plan View

Date: October 2025

Detail No.: 90.M.474



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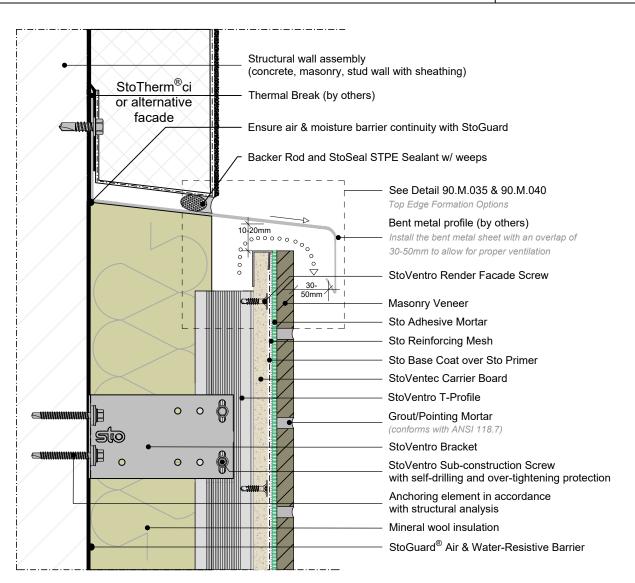


Date: October 2025

StoVentec® for Masonry Veneer Facades

Horizontal transition to alternative facade above

Section View Detail No.: 90.M.475



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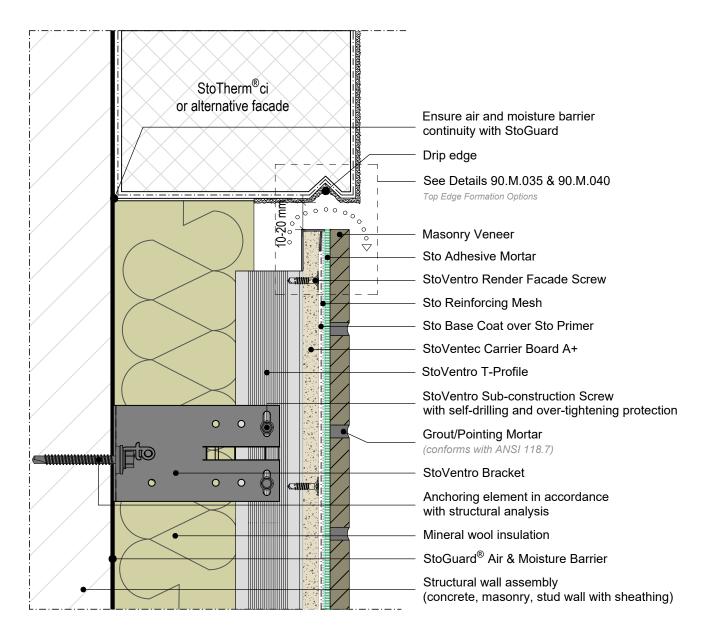


Date: June 2021

StoVentec® for Masonry Veneer Facades

Horizontal Transition of StoVentec under alternative facade

Section View Detail No.: 90.M.476



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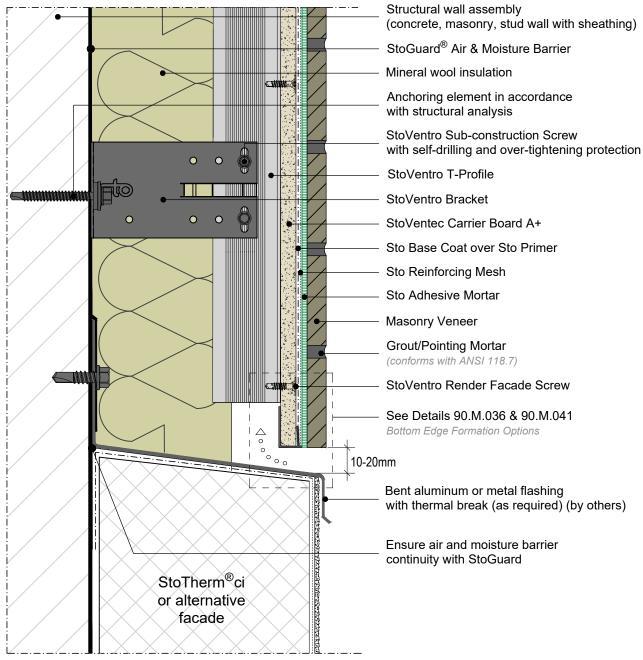
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Horizontal Transition of StoVentec above alternative facade (facades flush)

Date: June 2021

Section View Detail No.: 90.M.478



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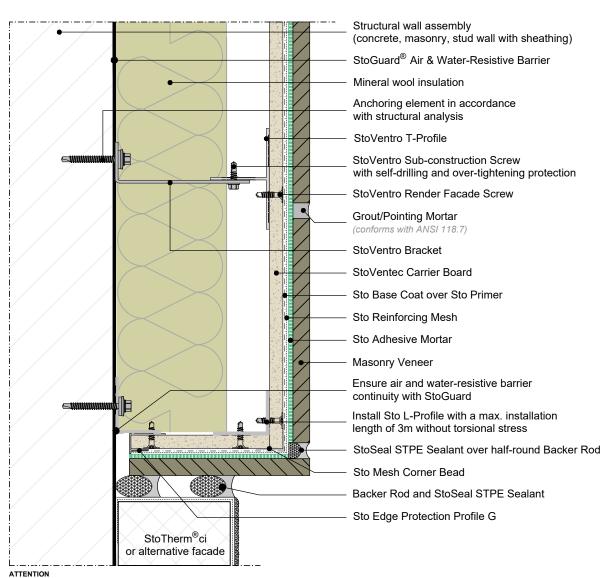


Vertical Transition of StoVentec to Alternative Facade (StoVentec proud)

Plan View

Date: October 2025

Detail No.: 90.M.486



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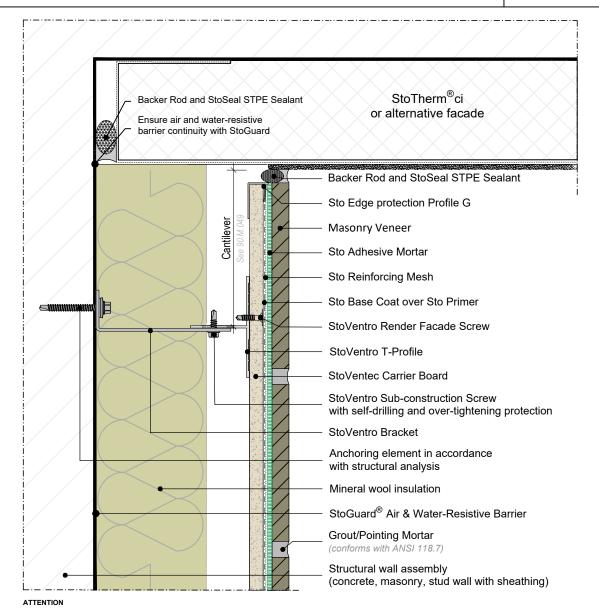


Inside corner to alternative facade - with StoSeal STPE

Detail No.: 90.M.490

Date: October 2025

Plan View



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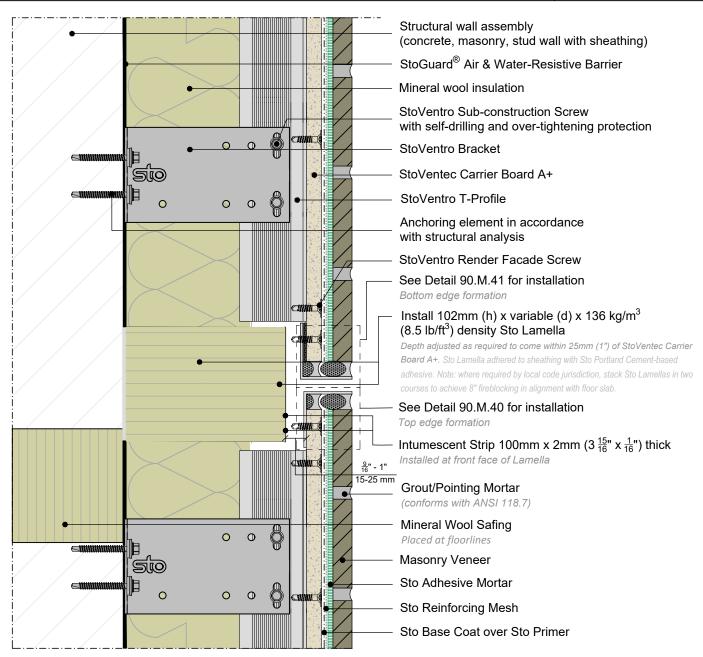


Fire Protection at Floor Lines w/ Sto Lamella and Intumescent Tape Fire Break NFPA 285 Compliant, Intertek Design listing No. STO/CWP 30-02

Section View

Date: August 2024

Detail No.: 90.M.550



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