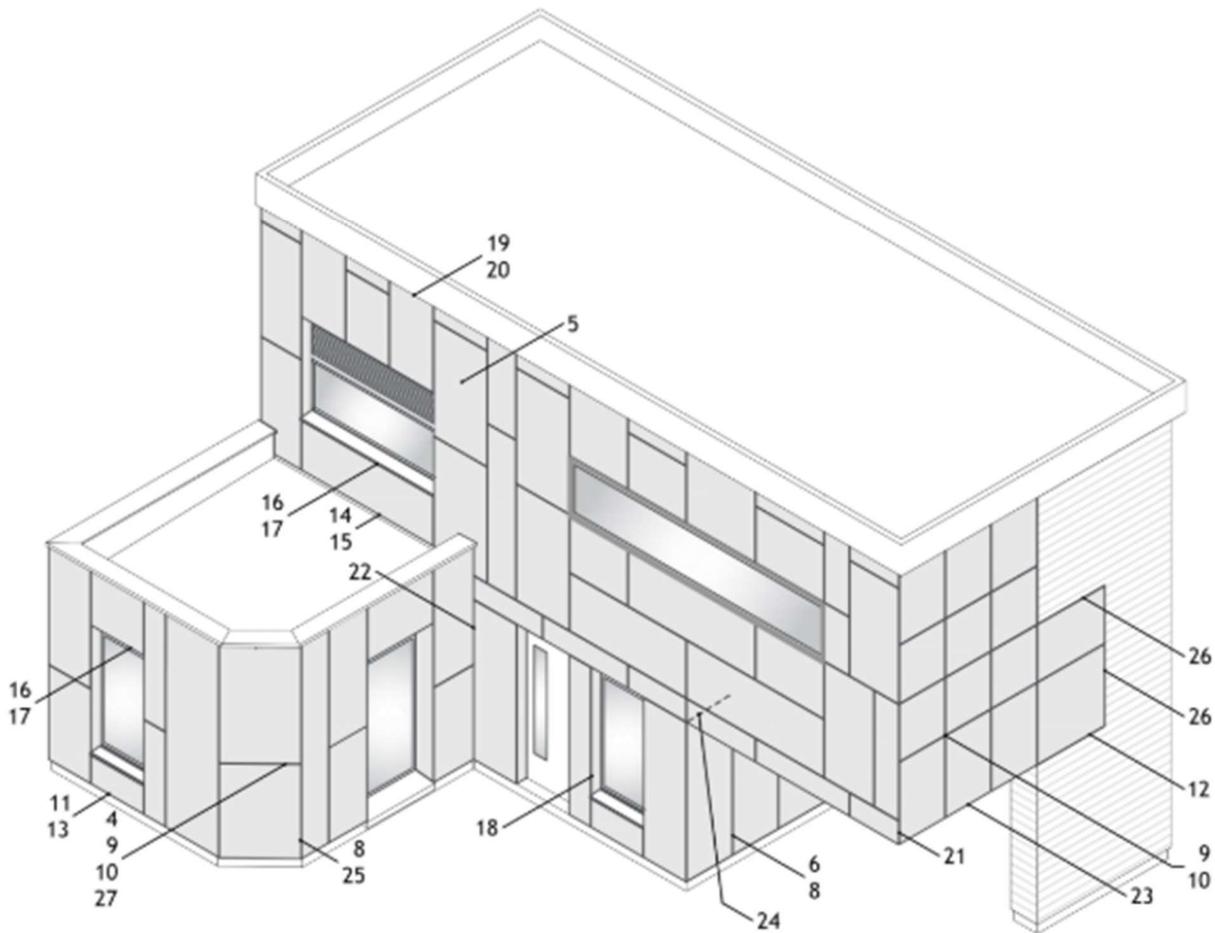




## EQUITONE Concealed Fastener Using Vertical Girt Systems on Steel Stud Construction Detail



Note: The detail numbers above correspond to the following index and pages of this detail book.

DISCLAIMER: These details are provided as a guideline for proper panel and associated component installation, and are based on industry accepted practices. Location of vapor barriers, insulation, and associated flashings and sealants in these details are based on ventilated rainscreen design practices for most U.S. climatic Zones. (Primary vapor placed on the “warm” side of the insulation layer. Contact EQUITONE technical services for specific projects located in areas in extreme climate zones that may require modifications to these details. All structural and subframe supports are not by EQUITONE are shown to ensure TZ the contents of this publication are accurate, ETEX, SA/NV Group, and subsidiary companies do not accept responsibility for errors or for information, TZ is Found to be misleading. Suggestions for, or description of, the end use of application of products or methods of working are for information only and ETEX, SA/NV limited and its subsidiaries accept no liability in respect thereof.

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION

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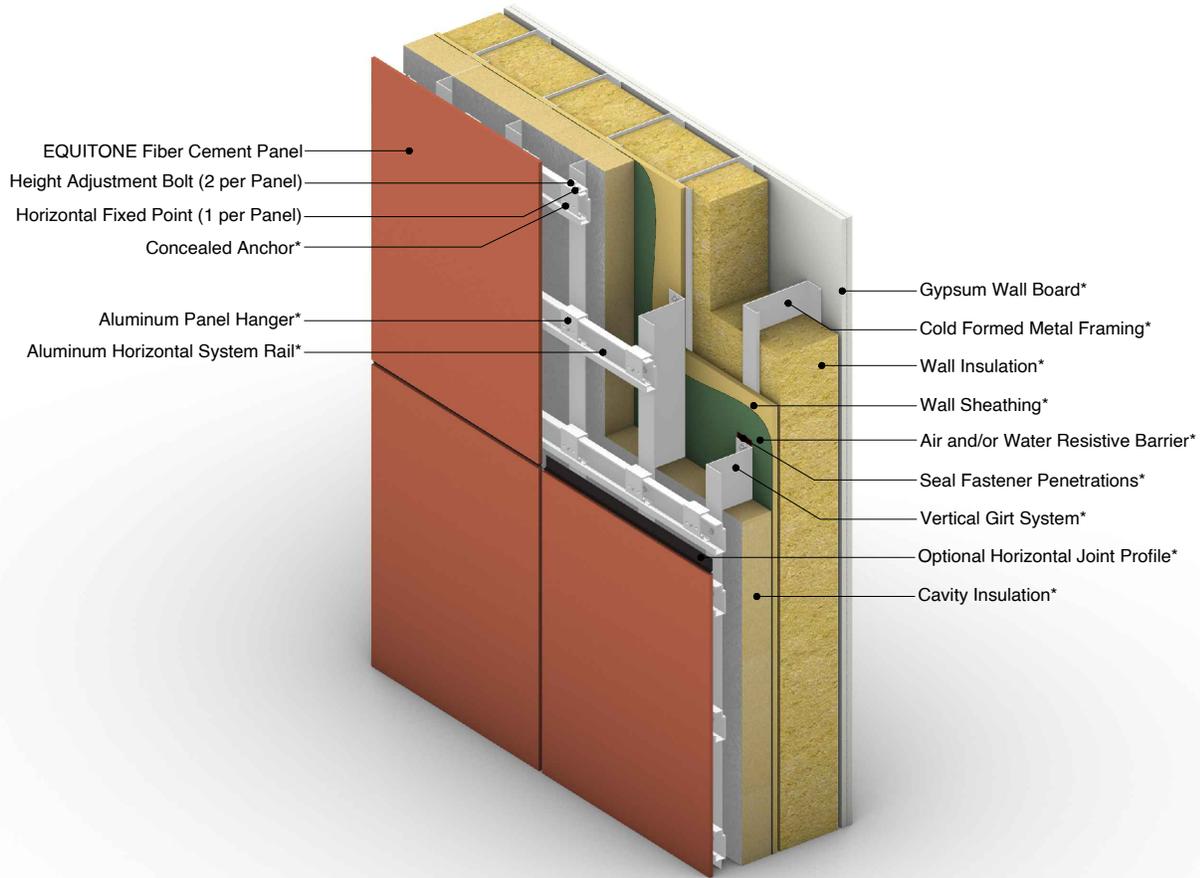
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INDEX

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



NOTE: THE DETAIL NUMBER ON EACH SHEET CORRESPONDS TO THE INDEX AND PAGE OF THE DETAIL BOOK

**DISCLAIMERS:**

THESE DETAILS ARE PROVIDED AS A GUIDELINE FOR PROPER PANEL AND ASSOCIATED COMPONENT INSTALLATION, AND ARE BASED ON INDUSTRY ACCEPTED PRACTICES. LOCATION OF VAPOR BARRIERS, INSULATION AND ASSOCIATED FLASHINGS AND SEALANTS IN THESE DETAILS ARE BASED ON VENTILATED RAINSCREEN DESIGN PRACTICES FOR MOST U.S. CLIMACTIC ZONES. (THE PRIMARY VAPOR PLACED ON THE "WARM" SIDE OF THE INSULATION LAYER. CONTACT EQUITONE TECHNICAL SERVICES FOR SPECIFIC PROJECTS LOCATED IN AREAS IN EXTREME CLIMATE ZONES WHICH MAY REQUIRE MODIFICATIONS TO THESE DETAILS. ALL STRUCTURAL AND SUBFRAME SUPPORTS ARE NOT BY EQUITONE AND ARE SHOWN FOR CLARIFICATION PURPOSES ONLY. TO ENSURE YOU ARE VIEWING THE MOST RECENT AND ACCURATE PRODUCT APPLICATION GUIDE [WWW.EQUITONE.COM](http://WWW.EQUITONE.COM). CARE HAS BEEN TAKEN TO ENSURE THE CONTENTS OF THIS PUBLICATION ARE ACCURATE, ETEX, SA/ NV GROUP AND SUBSIDIARY COMPANIES DO NOT ACCEPT RESPONSIBILITY FOR ERRORS OR FOR INFORMATION THAT IS FOUND TO BE MISLEADING. SUGGESTIONS FOR, OR DESCRIPTION OF, THE END USE OR APPLICATION OF PRODUCTS OR METHODS OF WORKING ARE FOR INFORMATION ONLY AND ETEX, SA/ NV LIMITED AND ITS SUBSIDIARIES ACCEPT NO LIABILITY IN RESPECT THEREOF.



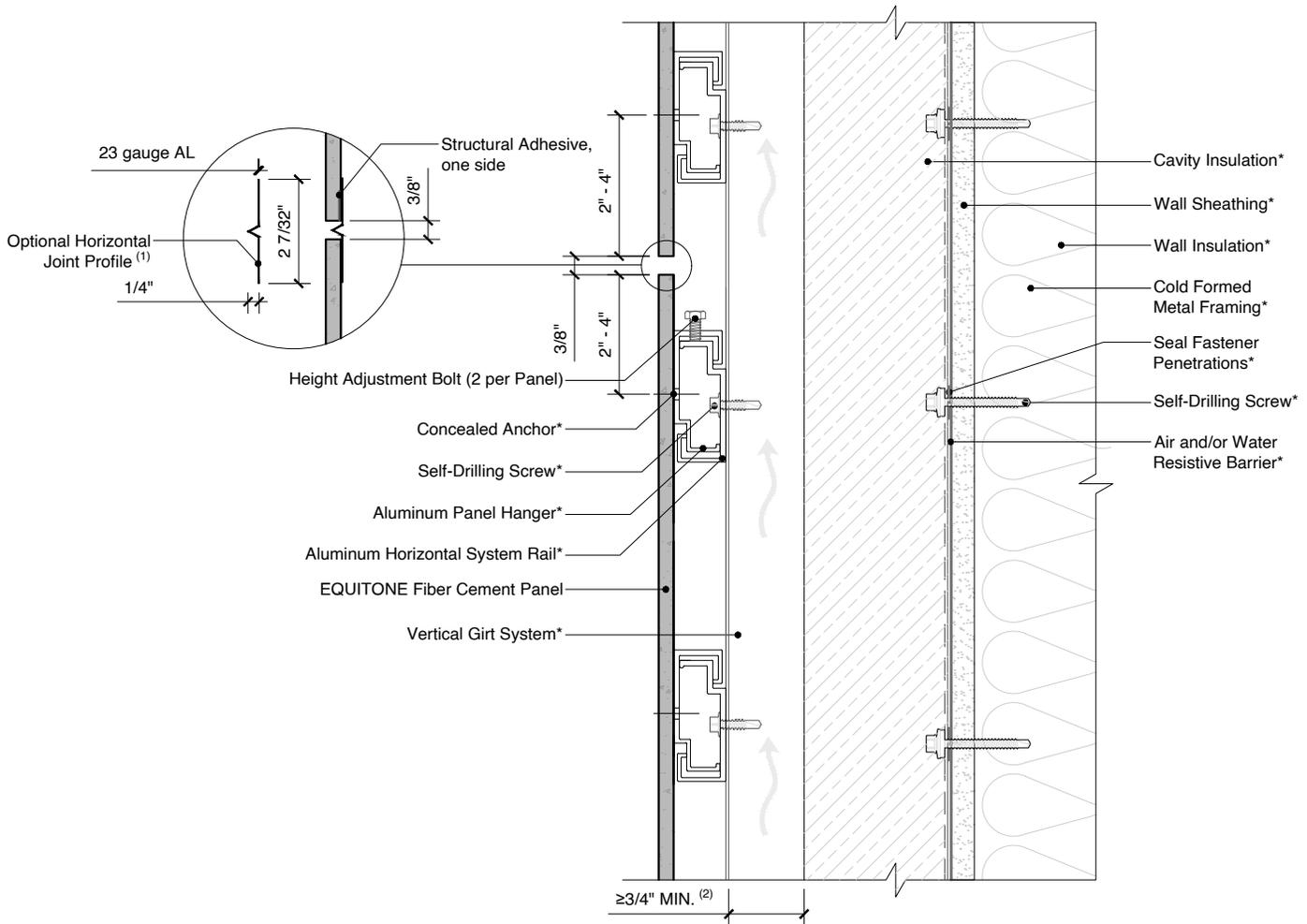
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3D ASSEMBLY  
DETAIL

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

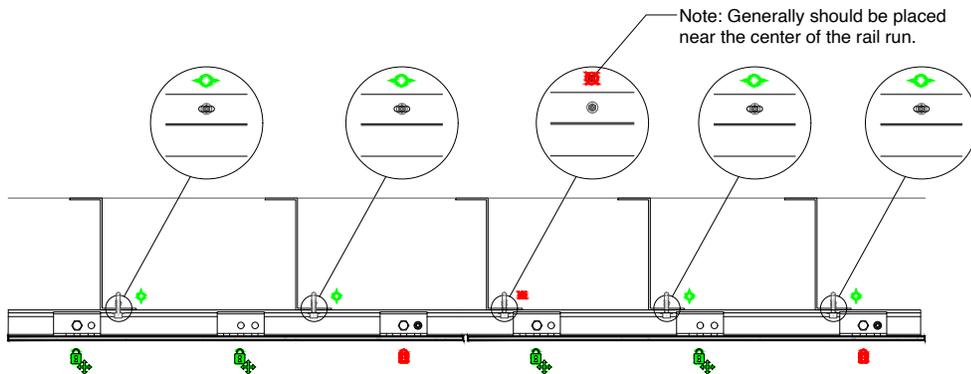
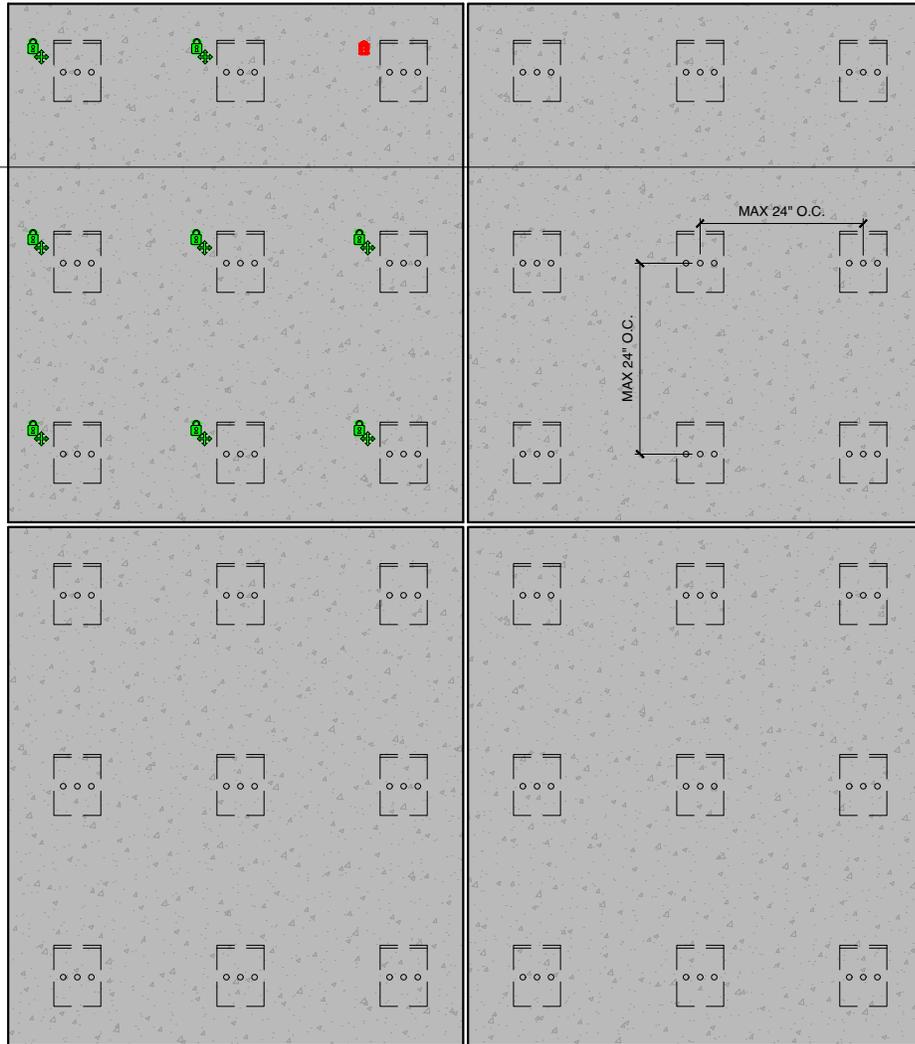
1. Flashing used to close the joints may not be thicker as 1/32 in (23 gauge), including the thickness of any fastener heads. Closing the horizontal joints may require additional ventilation allowances.
2. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
3. (\*) symbol represents materials not supplied by EQUITONE.



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RELATION BETWEEN  
FIXED AND  
SLIDING POINTS

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

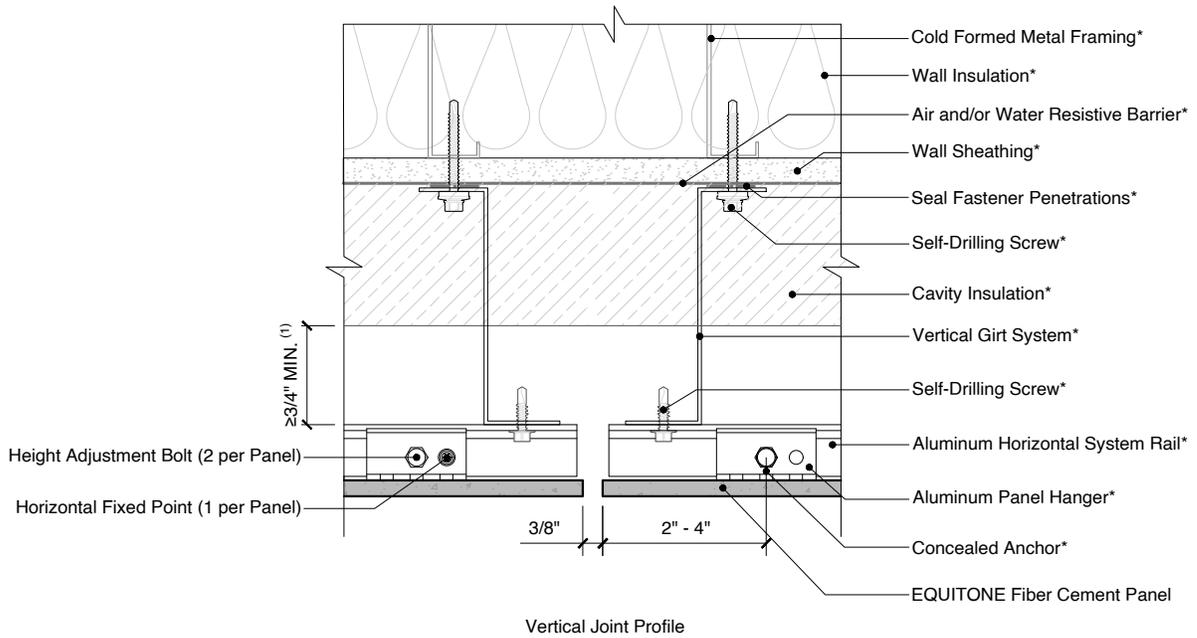
1. The following is a representation of the importance of allowing the sub-framing system to expand and contract in addition to the movement within the fixing systems. These are general guidelines and do not encompass all situations.
2. Recommend maximum rail lengths to be 10'-0".



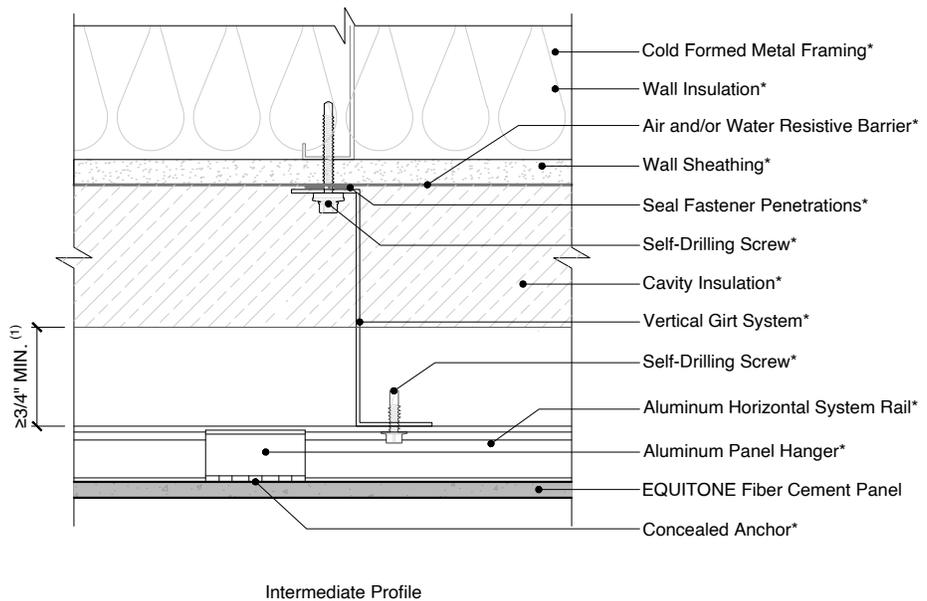
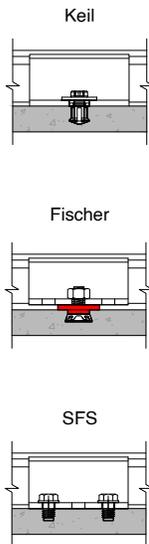
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RELATION BETWEEN  
 SUB-FRAMING AND PANEL  
 EXPANSION POINTS

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



Position of Concealed Anchor\*s in the Panel Hanger:



NOTES:

1. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
2. (\*) symbol represents materials not supplied by EQUITONE.



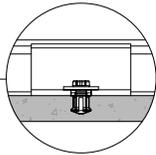
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VERTICAL  
 PROFILE DETAILS

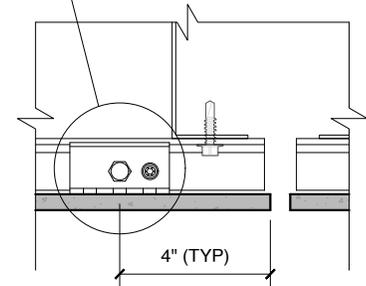
# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION

## Concealed Anchor Edge Distance Requirements

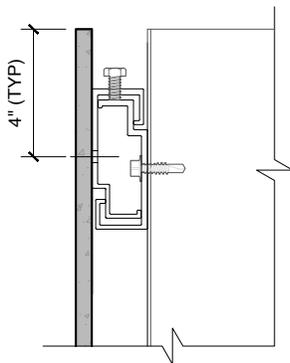
**Keil**



Position of Concealed Anchor in the Panel Hanger

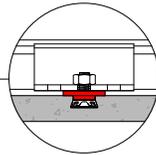


Vertical Joint Edge Distance

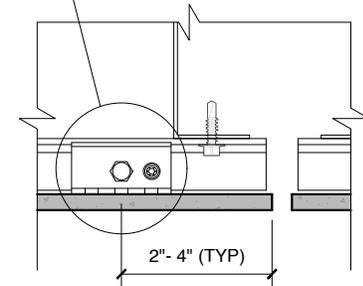


Horizontal Joint Edge Distance

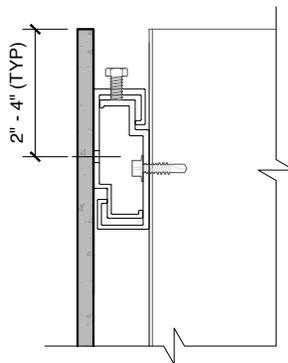
**Fischer**



Position of Concealed Anchor in the Panel Hanger

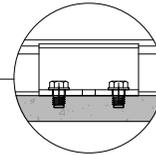


Vertical Joint Edge Distance

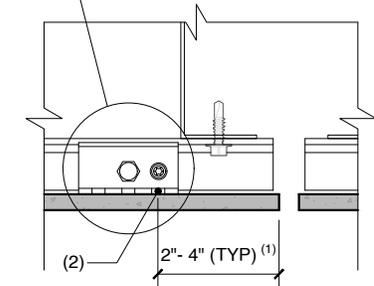


Horizontal Joint Edge Distance

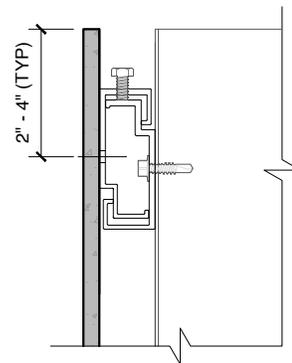
**SFS**



Position of Concealed Anchor in the Panel Hanger



Vertical Joint Edge Distance



Horizontal Joint Edge Distance

**NOTES:**

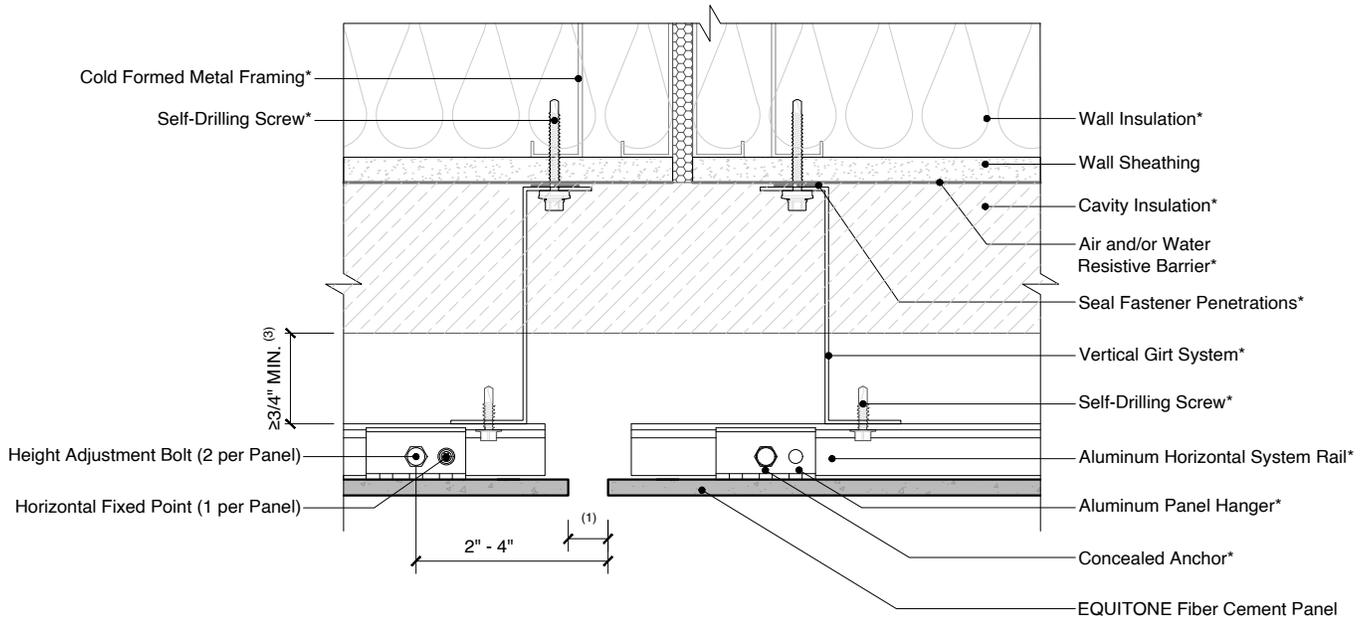
1. Ensure measurement is taken from anchor closest to the panel edge and not from the center of the hanger.
2. Ensure dimension is to the center of this front hole and not the hole behind.



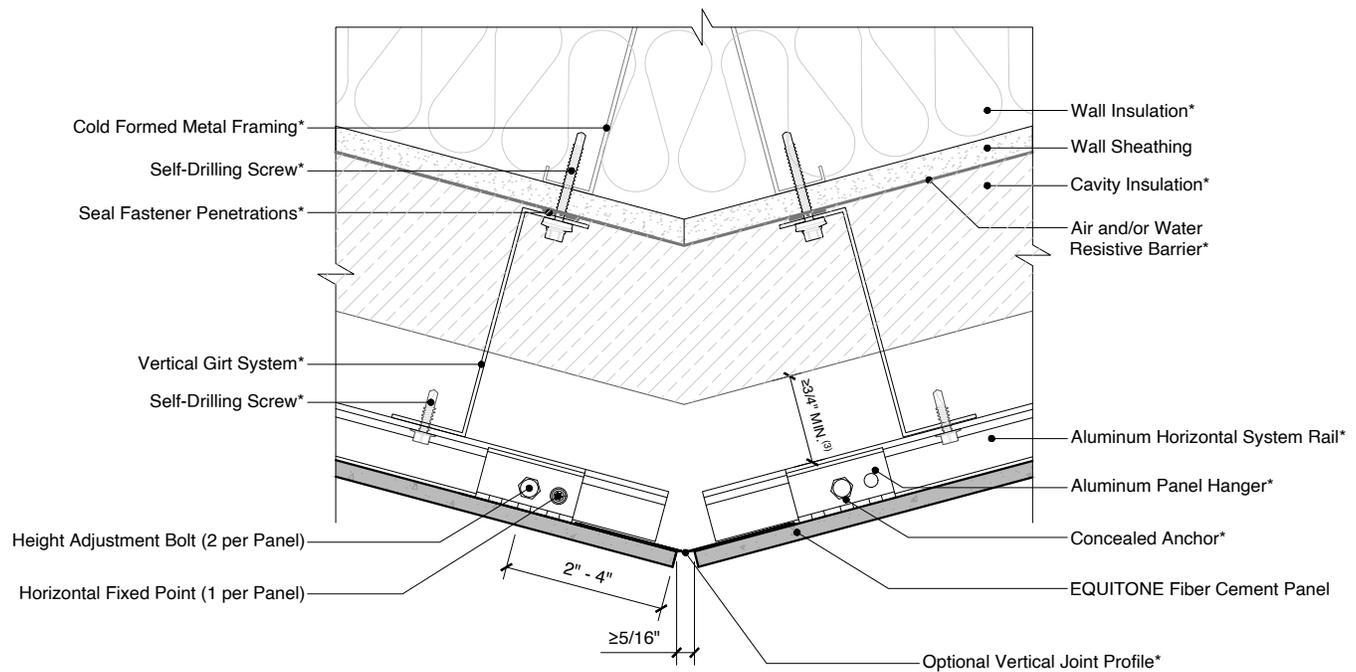
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**CONCEALED ANCHOR  
 EDGE DISTANCE  
 REQUIREMENTS**

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



Vertical Control Joint



Vertical Joint at Angle

**NOTES:**

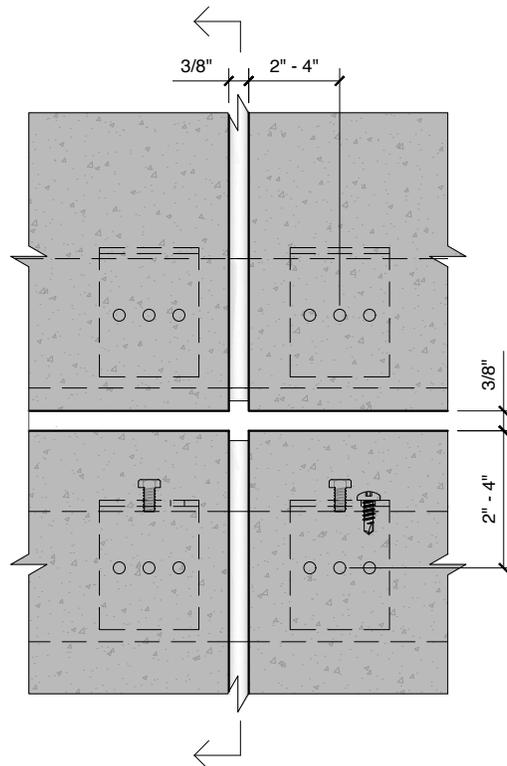
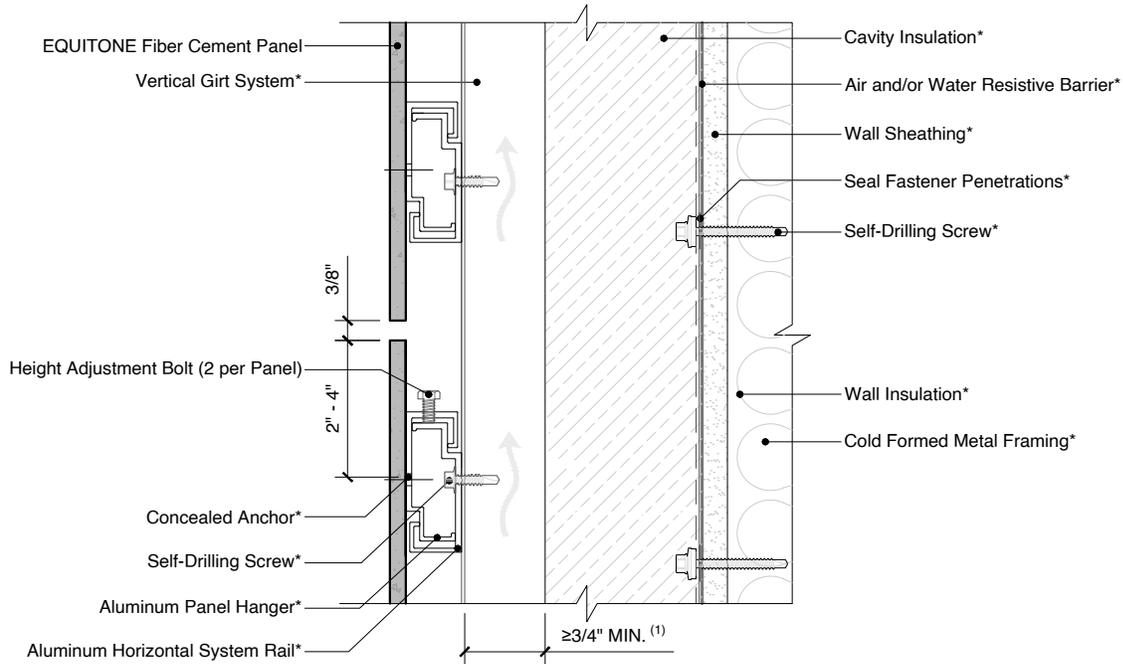
1. The width of the the facade control joint should be equal or greater than the building control joint.
2. Flashing used to close the joints may not be thicker as 1/32 in (23 gauge), including the thickness of any fastener heads.
3. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
4. (\*) symbol represents materials not supplied by EQUITONE.



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## VERTICAL JOINT DETAILS

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

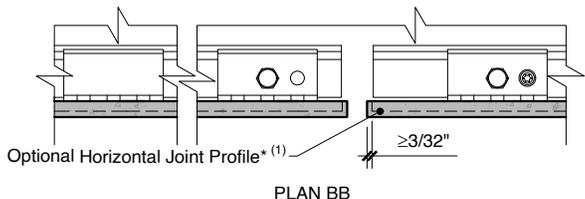
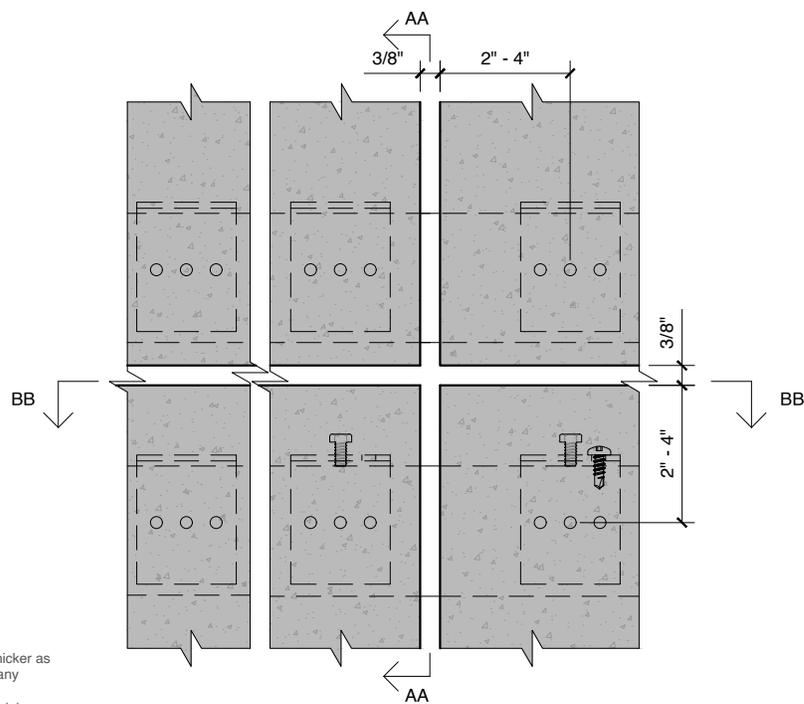
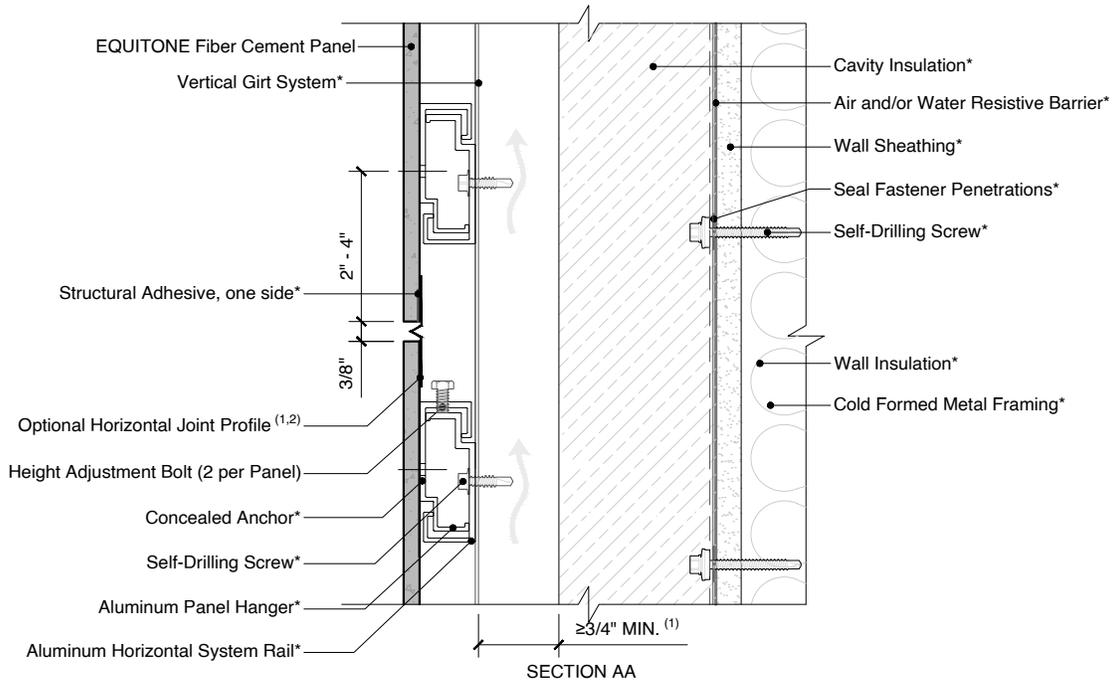
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OPEN HORIZONTAL  
 JOINT DETAILS

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



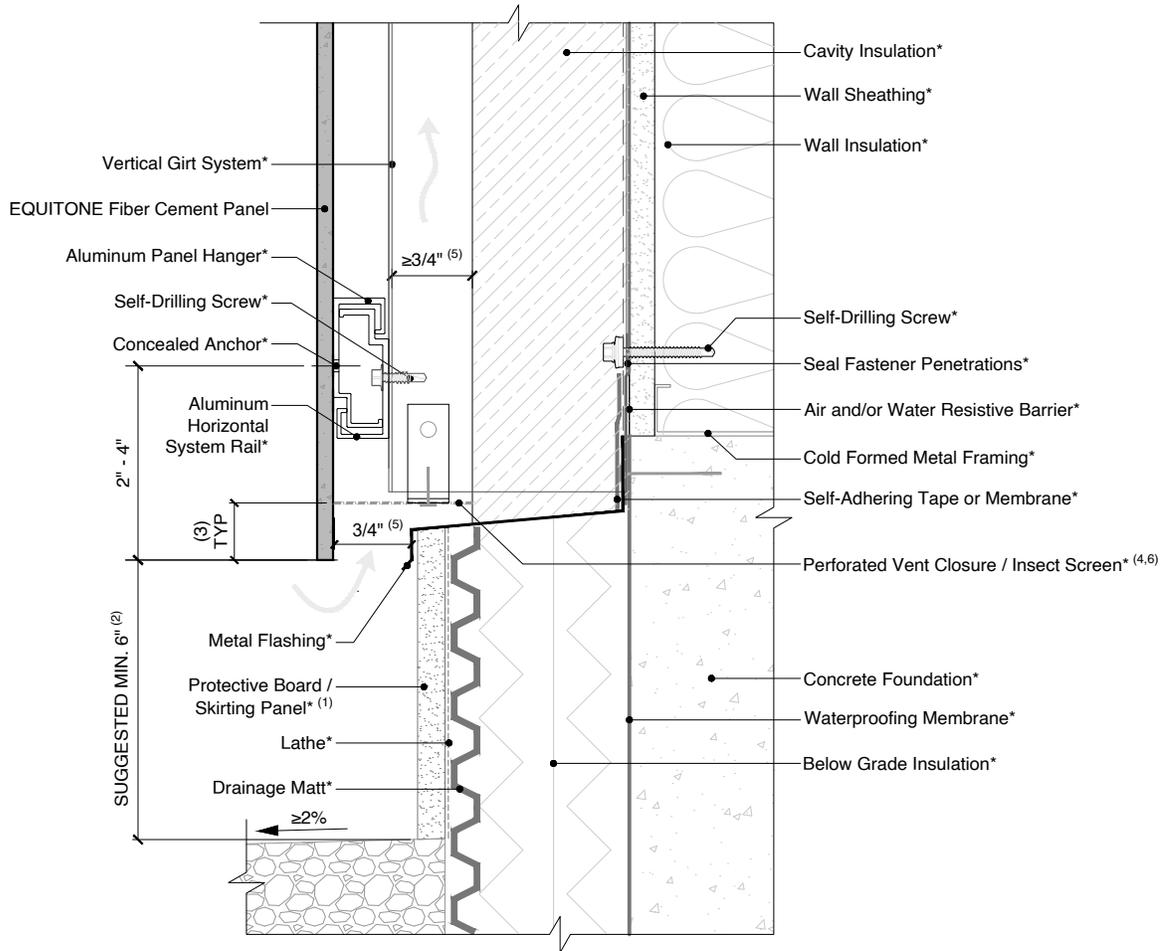
- NOTES:
1. Flashing used to close the joints may not be thicker than 1/32 in (23 gauge), including the thickness of any fastener heads.
  2. Closing the horizontal joint may increase the minimum ventilation requirements. See EQUITONE Planning and Application Guide for more information.
  3. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
  4. (\*) symbol represents materials not supplied by EQUITONE.



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BAFFLED HORIZONTAL  
JOINT DETAILS

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

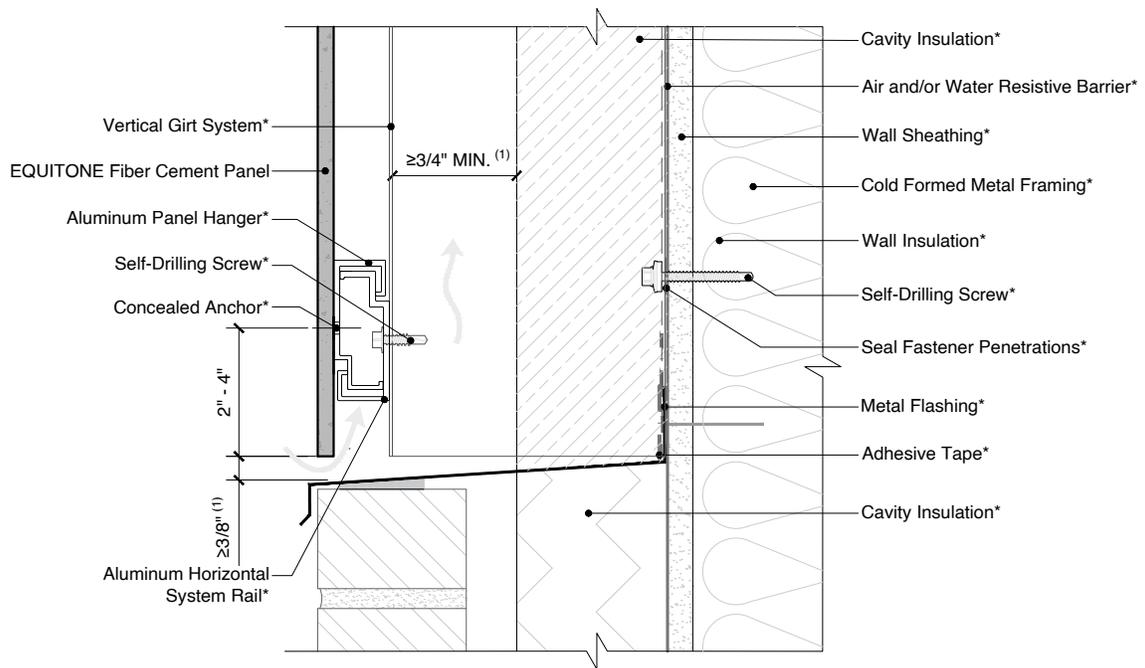
1. The skirting board could be concrete, natural stone, render, metal flashing, etc.
2. A smaller ground clearance is possible, but it may increase the risk of water marks and panel staining caused by splash back.
3. The facade panel should preferably overhang more than 3/8 in below the ventilation profile to create a drip edge.
4. All closures, trims, screens, etc. should be held off the back of the panel by at least 1/16 inch.
5. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
6. When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended to prevent debris build up. The perforation pattern should allow the same volume of air to pass through as the specified continuous open joint size specified in EQUITONE guidelines.
7. Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
8. (\*) symbol represents materials not supplied by EQUITONE.



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BASE DETAIL -  
GROUND LEVEL

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

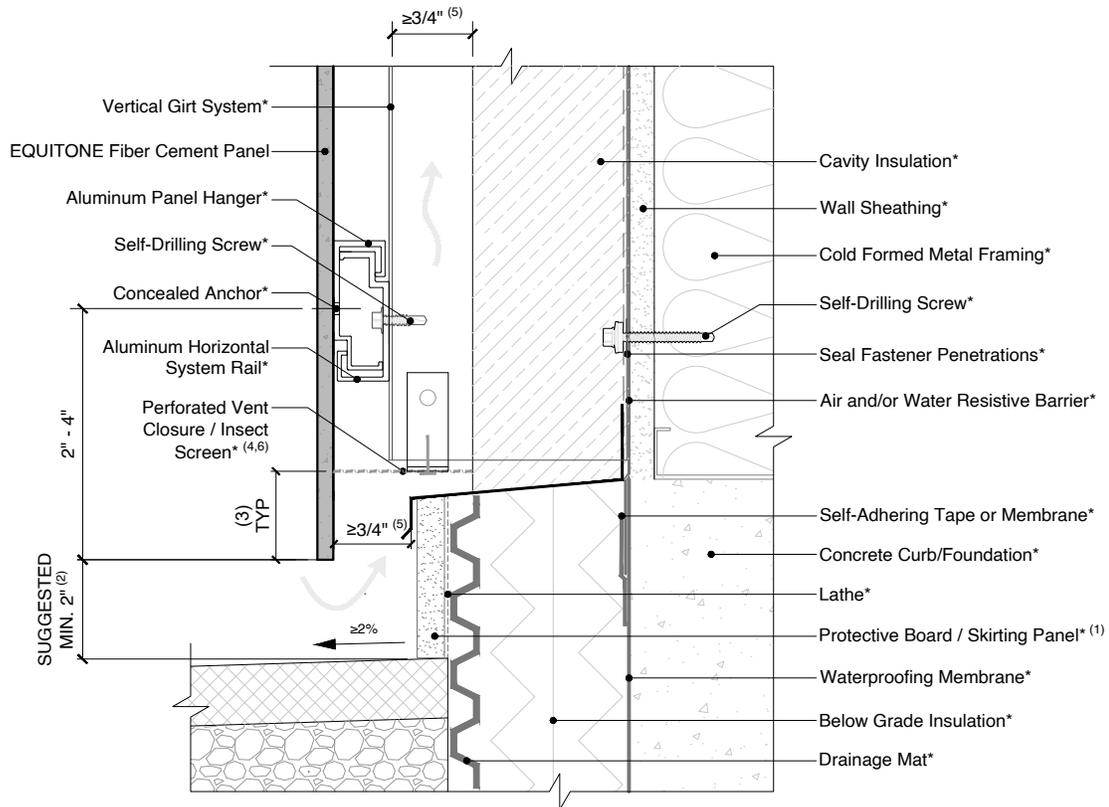
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**BASE DETAIL - JUNCTION WITH OTHER FACADE MATERIAL DETAIL**

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

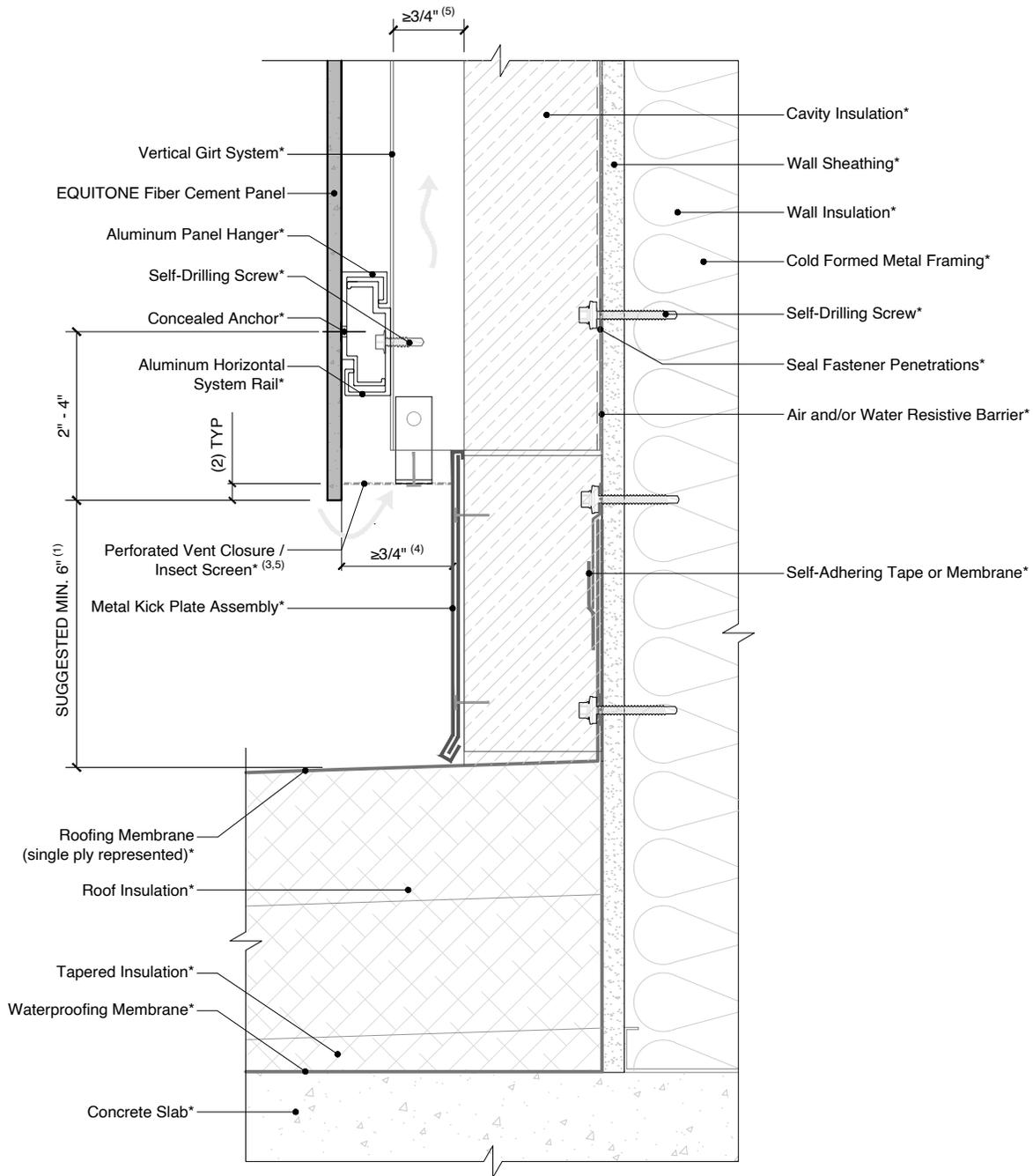
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7. Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
8. (\*) symbol represents materials not supplied by EQUITONE.



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**BASE DETAIL -  
COVERED AREA**

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

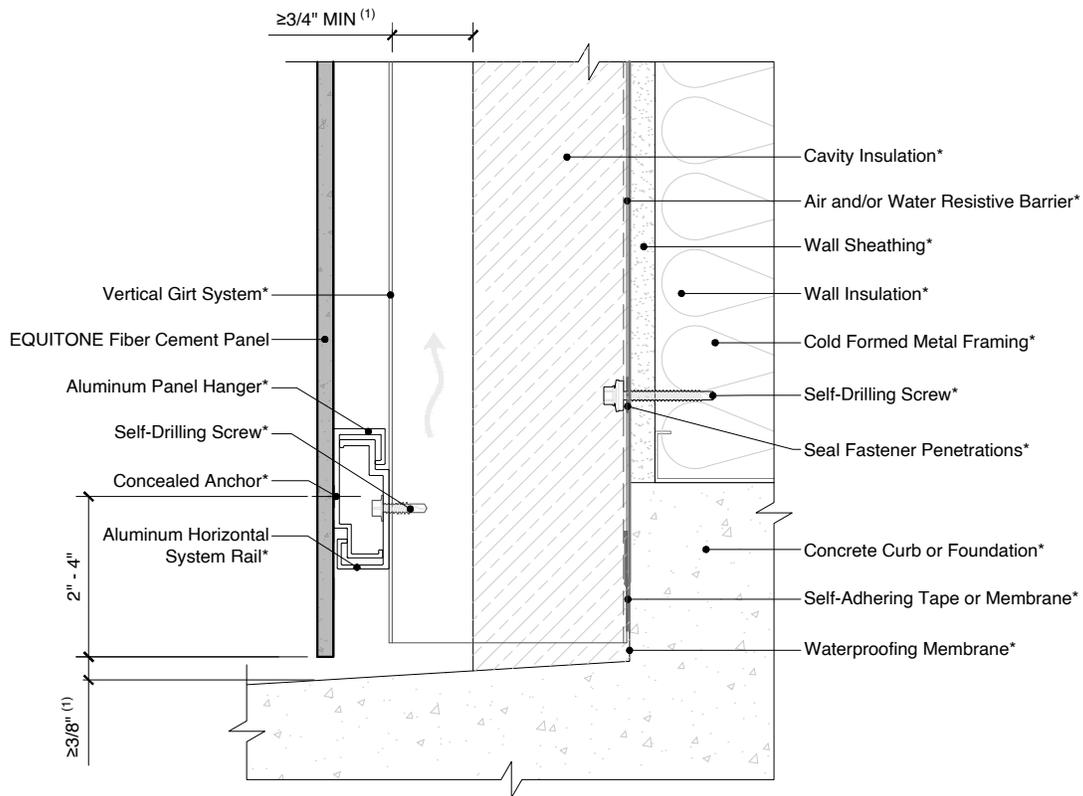
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2. The facade panel should preferably overhang more than 3/8 inch below the ventilation profile to create a drip edge.
3. All closures, trims, screens, etc. should be held off the back of the panel by at least 1/16 inch.
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BASE DETAIL -  
FLAT ROOF

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

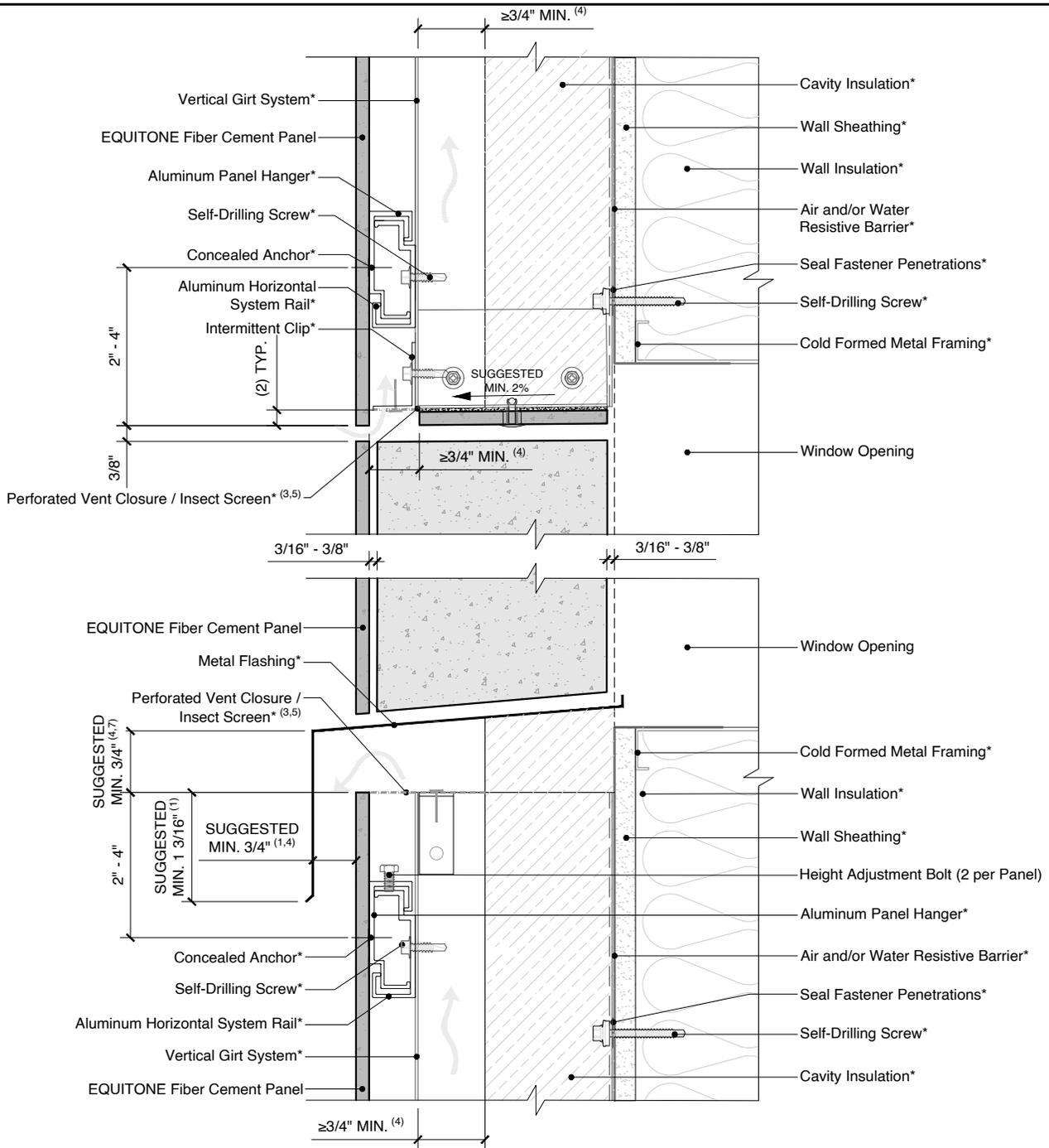
1. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
2. (\*) symbol represents materials not supplied by EQUITONE.



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**BASE DETAIL -  
BALCONY**

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

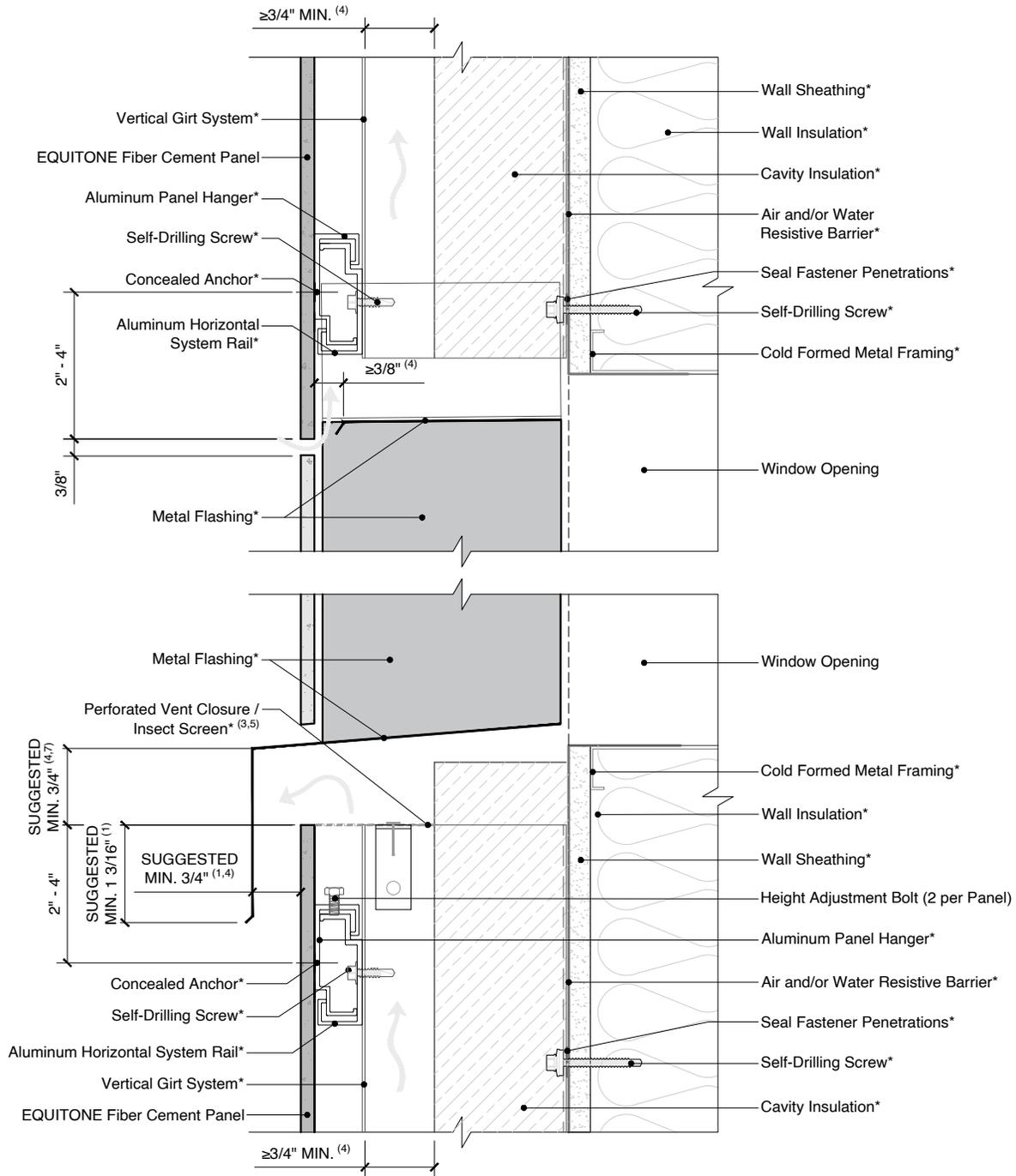
1. A smaller overlap or offset is possible, but it may increase the risk of water marks and panel staining caused by runoff. Smaller capping is also more prone to wind driven rain entering the cavity. At minimum, EQUITONE's ventilation guidelines must be followed.
2. The facade panel should preferably overhang more than 3/8" below the ventilation profile to create a drip edge.
3. All closures, trims, screens, etc. should be held off the back of the panel by at least 1/16 inch.
4. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
5. When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended to prevent debris build up. The perforation pattern should allow the same volume of air to pass through as the specified continuous open joint size specified in EQUITONE guidelines.
6. Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
7. Ensure there is enough room to engage the panel clips over the concealed rail system.
8. (\*) symbol represents materials not supplied by EQUITONE.



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**WINDOW HEAD AND  
SILL DETAILS -  
OPTION 1**

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

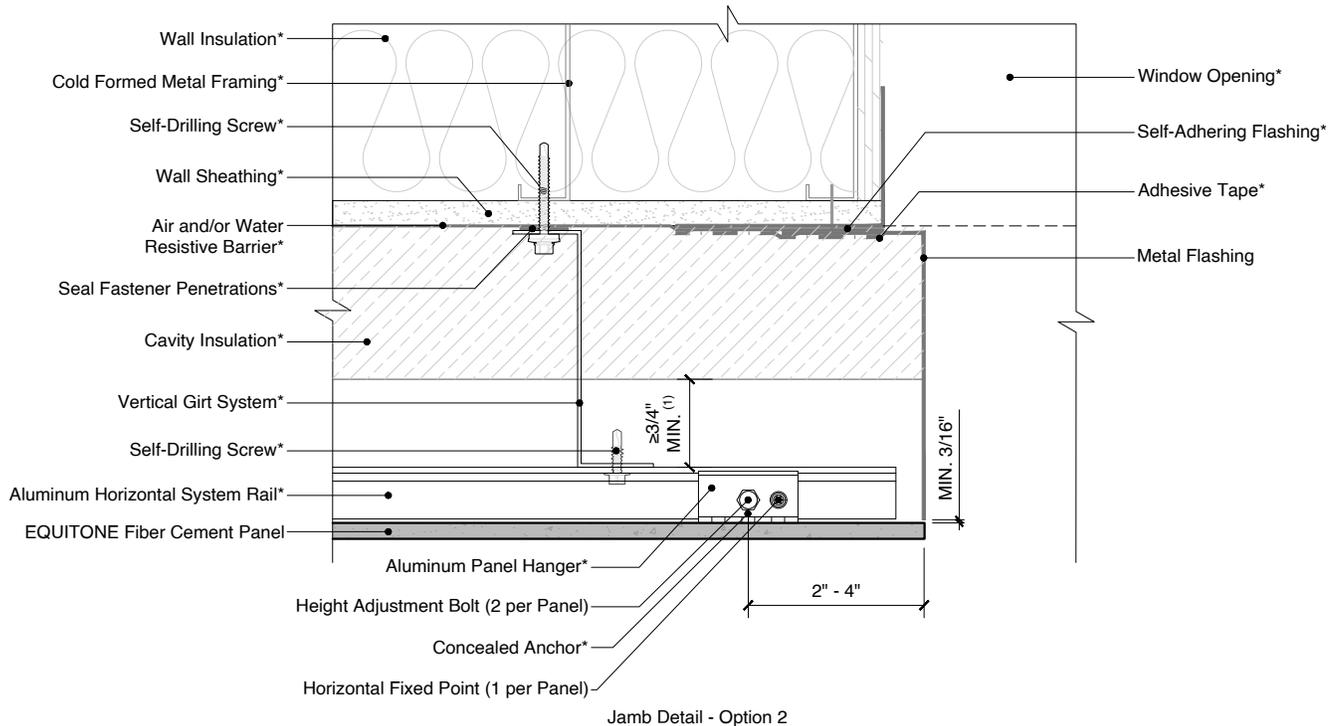
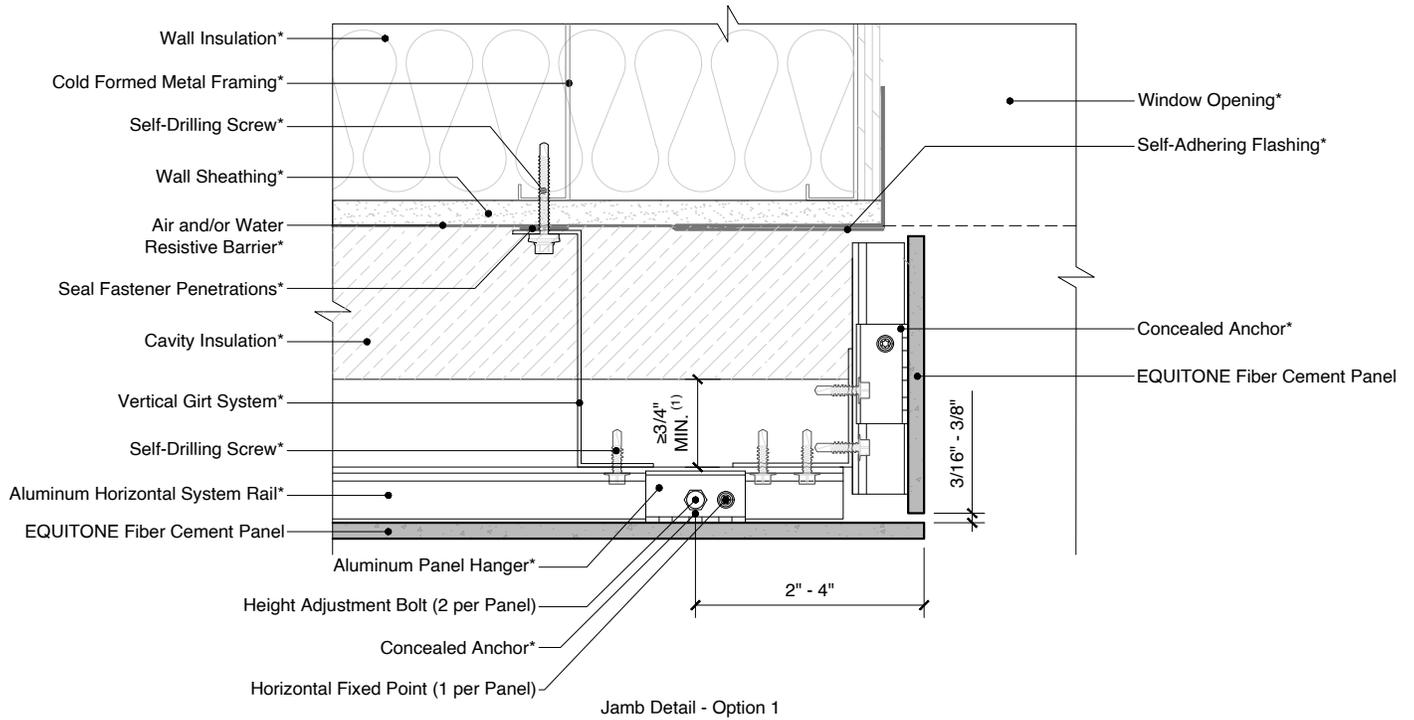
1. A smaller overlap or offset is possible, but it may increase the risk of water marks and panel staining caused by runoff. Smaller capping is also more prone to wind driven rain entering the cavity. At minimum, EQUITONE's ventilation guidelines must be followed.
2. The facade panel should preferably overhang more than 3/8" below the ventilation profile to create a drip edge.
3. All closures, trims, screens, etc. should be held off the back of the panel by at least 1/16" inch.
4. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
5. When the inlet/outlet is wider than 3/4" inch continuous, a perforated closure is recommended to prevent debris build up. The perforation pattern should allow the same volume of air to pass through as the specified continuous open joint size specified in EQUITONE guidelines.
6. Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8" inch continuous.
7. Ensure there is enough room to engage the panel clips over the concealed rail system.
8. (\*) symbol represents materials not supplied by EQUITONE.



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**WINDOW HEAD AND  
SILL DETAILS -  
OPTION 2**

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

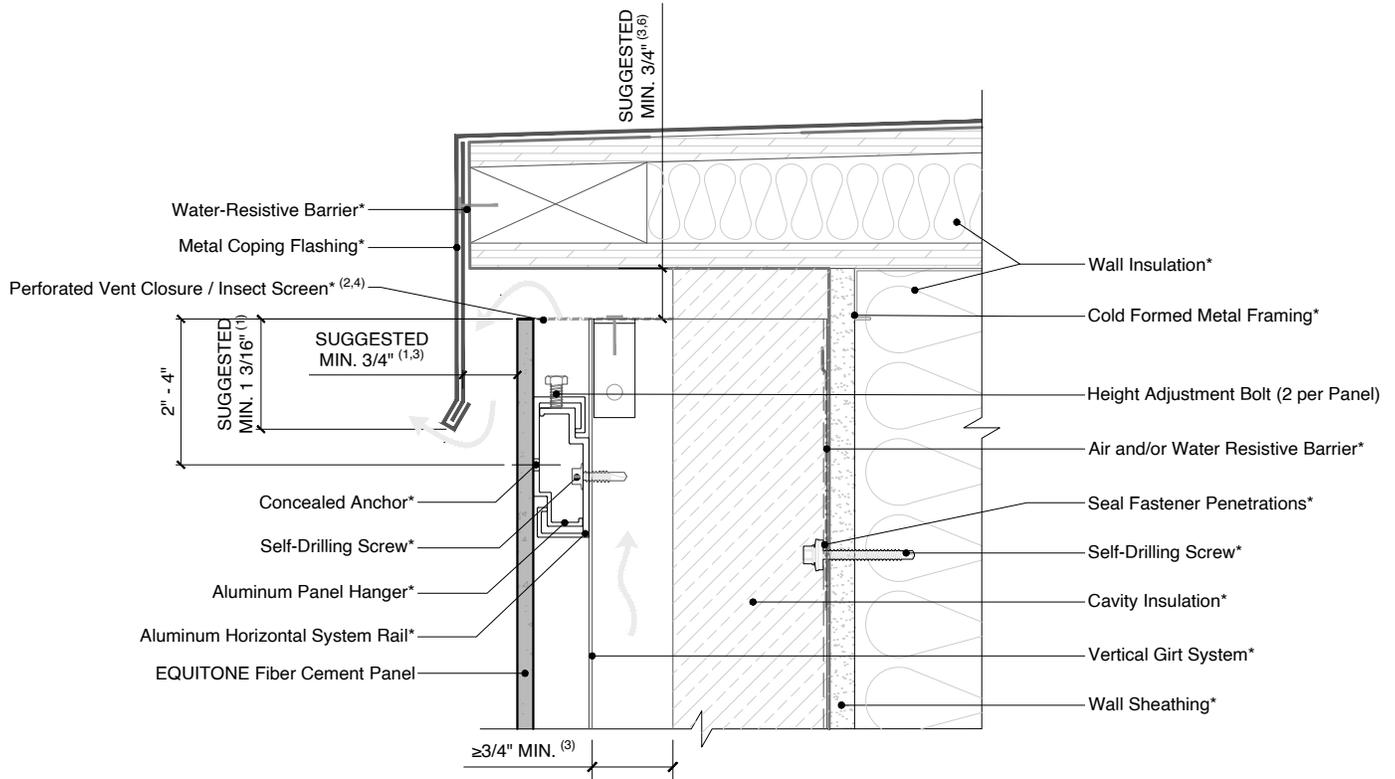
1. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
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**JAMB DETAIL  
OPTIONS**

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



Coping Detail - Down Slope

**NOTES:**

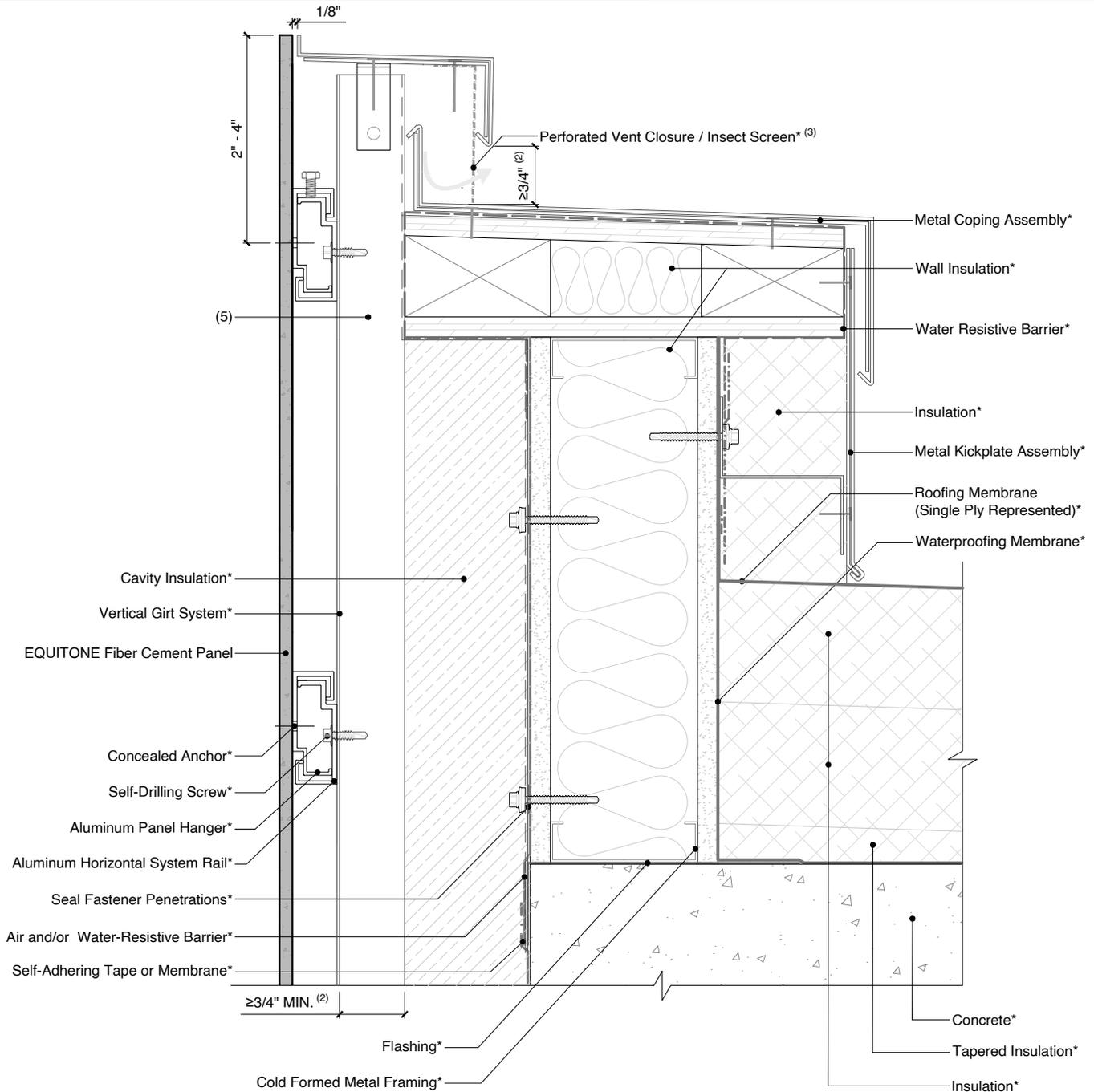
1. A smaller overlap or offset is possible, but it may increase the risk of water marks and panel staining caused by runoff. Smaller capping is also more prone to wind driven rain entering the cavity. At minimum, EQUITONE's ventilation guidelines must be followed.
2. All closures, trims, screens, etc. should be held off the back of the panel by at least 1/16 inch.
3. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
4. When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended to prevent debris build up. The perforation pattern should allow the same volume of air to pass through as the specified continuous open joint size specified in EQUITONE guidelines.
5. Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
6. Ensure there is enough room to engage the panel clips over the concealed rail system.
7. (\*) symbol represents materials not supplied by EQUITONE.



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COPING DETAIL -  
OPTION 1

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

1. All closures, trims, screens, etc. should be held off the back of the panel by at least 1/16 inch.
2. Inlet/outlet, air cavity, and closure perforation sizing will vary, from those expressed herein, depending upon the distance between inlet/outlet or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
3. When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended to prevent debris build up. The perforation pattern should allow the same volume of air to pass through as the specified continuous open joint size specified in EQUITONE guidelines.
4. Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
5. Reduced section of the support profiles must be taken into account during static calculations.
6. (\*) symbol represents materials not supplied by EQUITONE.



DETAIL #: EQ-CF-VG-SS-C2

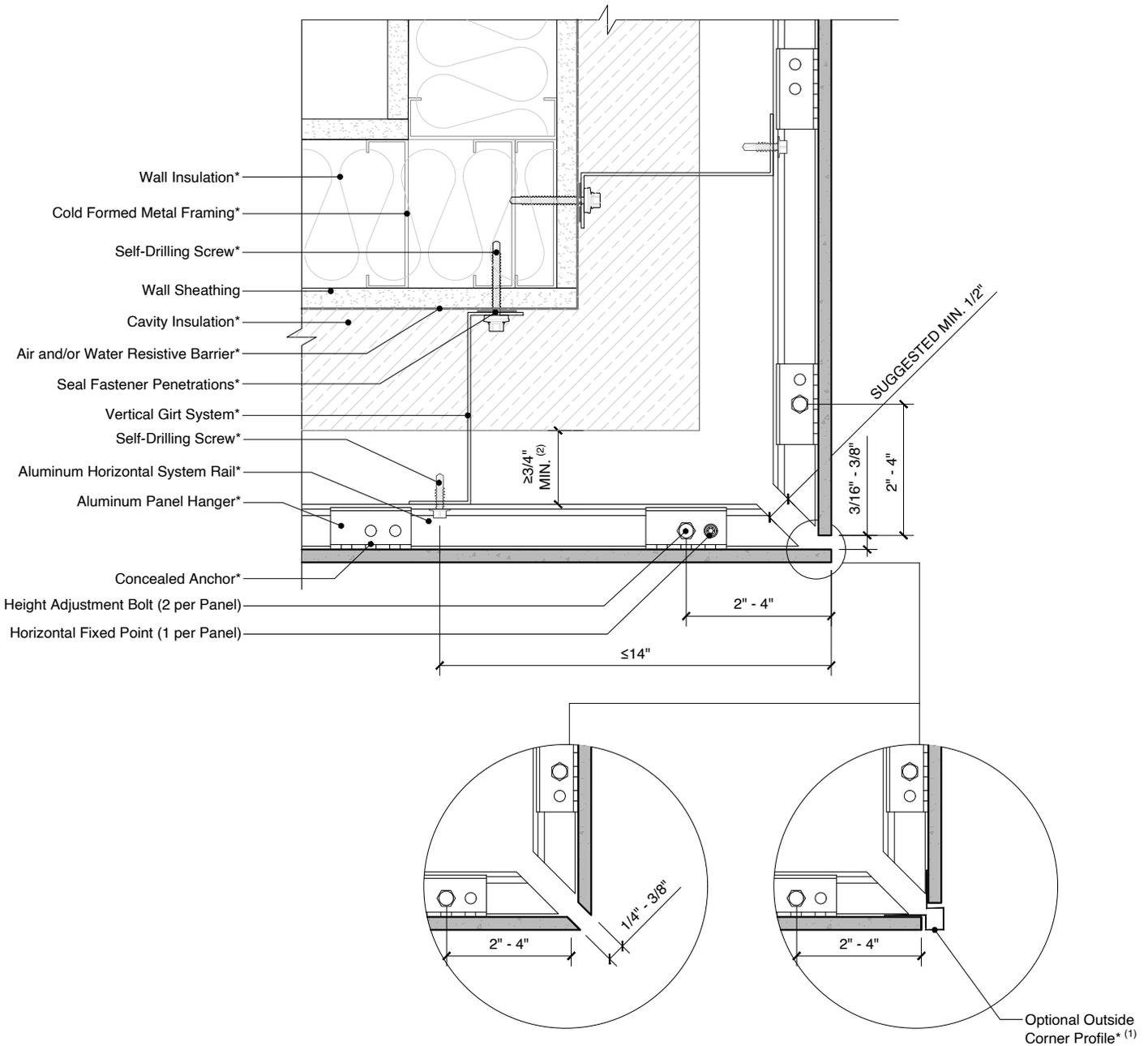
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COPING DETAIL -  
OPTION 2

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

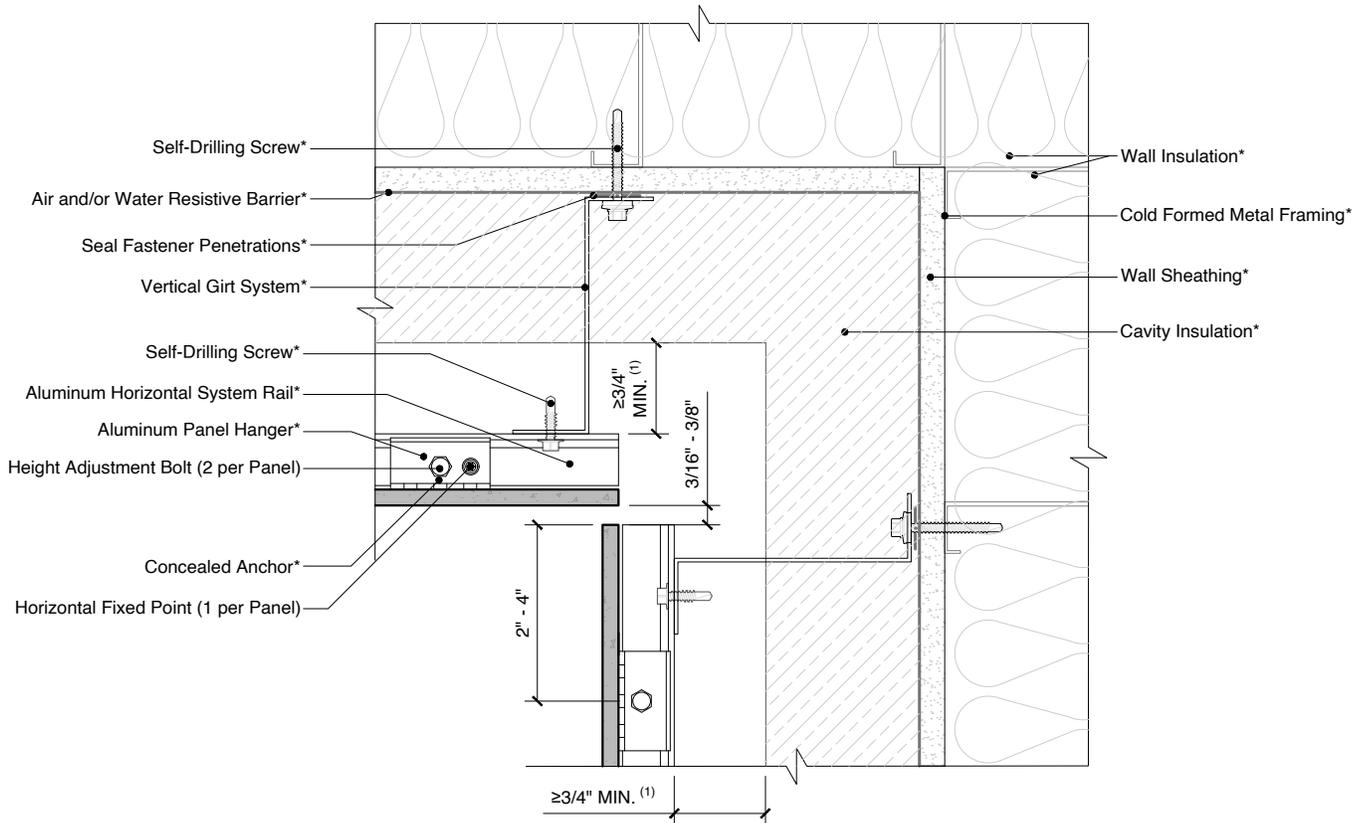
1. Flashing used to close the joints may not be thicker as 1/32 in (23 gauge), including the thickness of any fastener heads.
2. Inlet/outlet, air cavity, and closure perforation sizing will vary, from those expressed herein, depending upon the distance between inlet/outlet or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
3. (\*) symbol represents materials not supplied by EQUITONE.



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OUTSIDE CORNER  
DETAIL

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

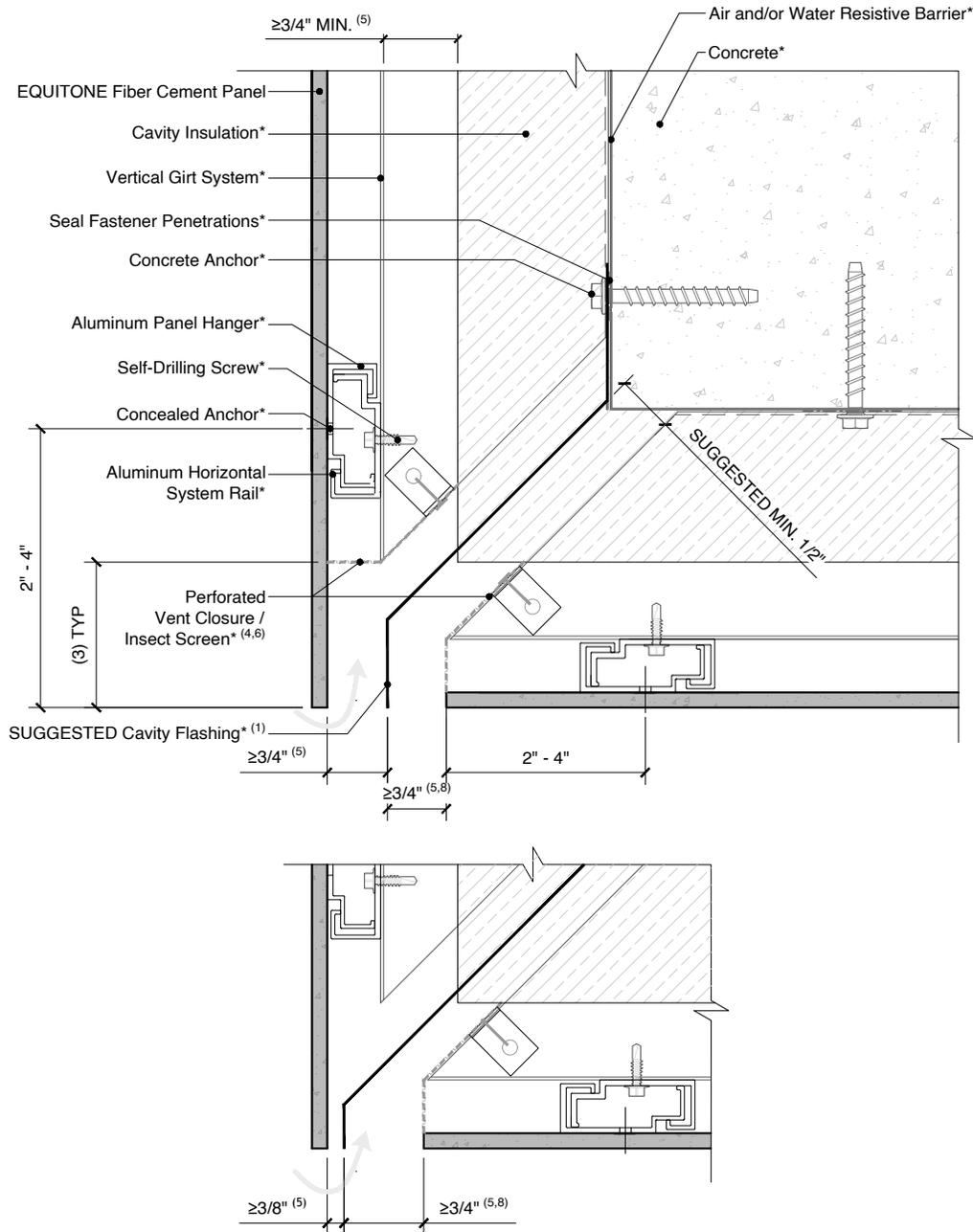
1. Inlet/outlet, air cavity, and closure perforation sizing will vary, from those expressed herein, depending upon the distance between inlet/outlet or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
2. (\*) symbol represents materials not supplied by EQUITONE.



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**INSIDE CORNER  
DETAIL**

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

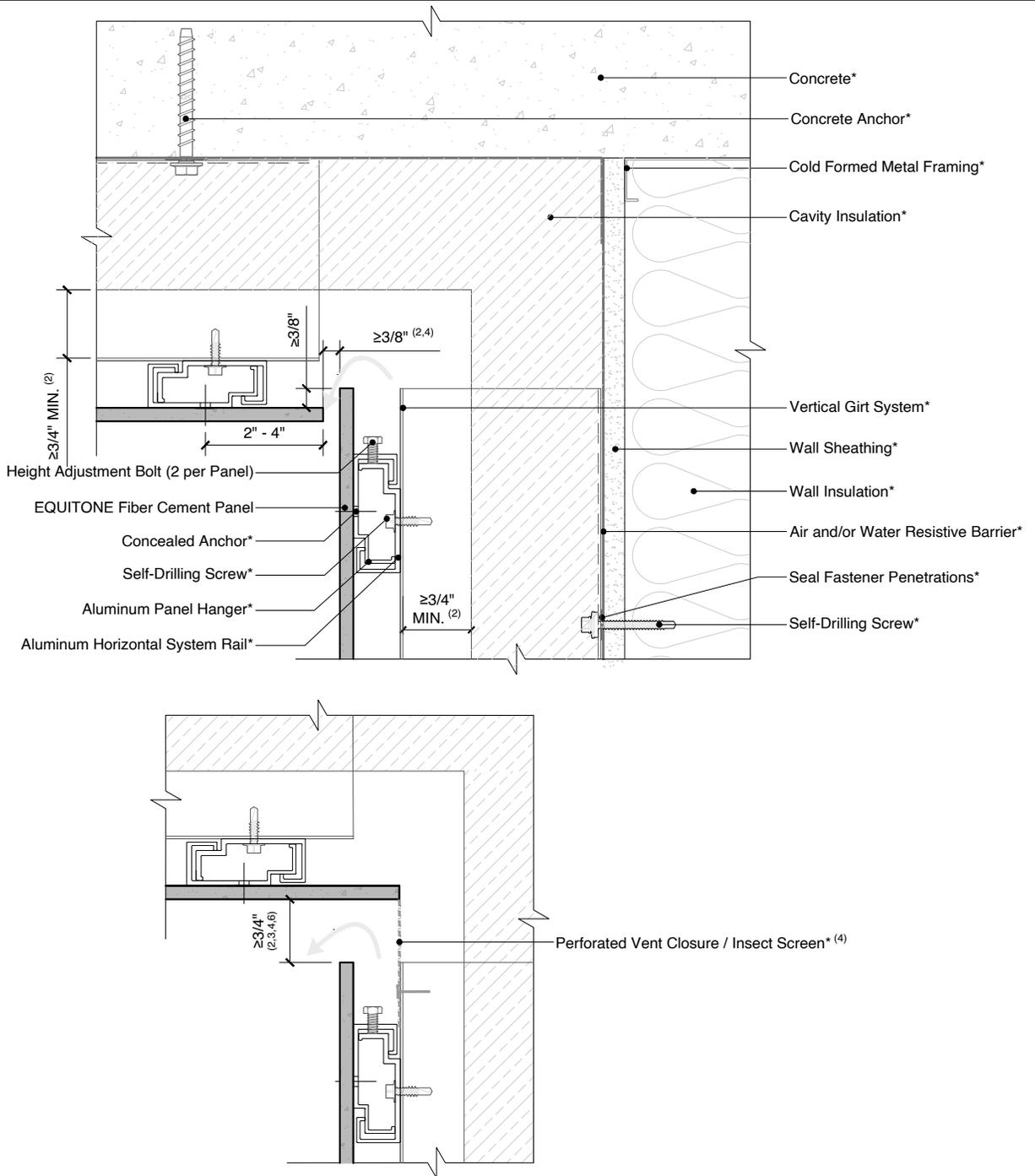
1. For soffit conditions, rivet spacing should be limited to 16 inch on center and should be confirmed through project engineering.
2. The following could also be detailed without a through wall flashing, but it may increase the risk of water marks and efflorescence on the face of the soffit panel material. At minimum, EQUITONE's ventilation guidelines must be followed.
3. The facade panel should preferably overhang more than 3/8 inch below ventilation profile to create a drip edge.
4. All closures, trims, screens, etc. should be held off the back of the panel by at least 1/16 inch.
5. Inlet/outlet, air cavity, and closure perforation sizing will vary, from those expressed herein, depending upon the distance between inlet/outlet or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
6. When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended to prevent debris build up. The perforation pattern should allow the same volume of air to pass through as the specified continuous open joint size specified in EQUITONE guidelines.
7. Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
8. Ensure there is enough room to engage the panel clips over the concealed rail system. Suggested 3/4" minimum.
9. (\*) symbol represents materials not supplied by EQUITONE.



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SOFFIT / CEILING  
WALL JUNCTION -  
OUTSIDE EDGE

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



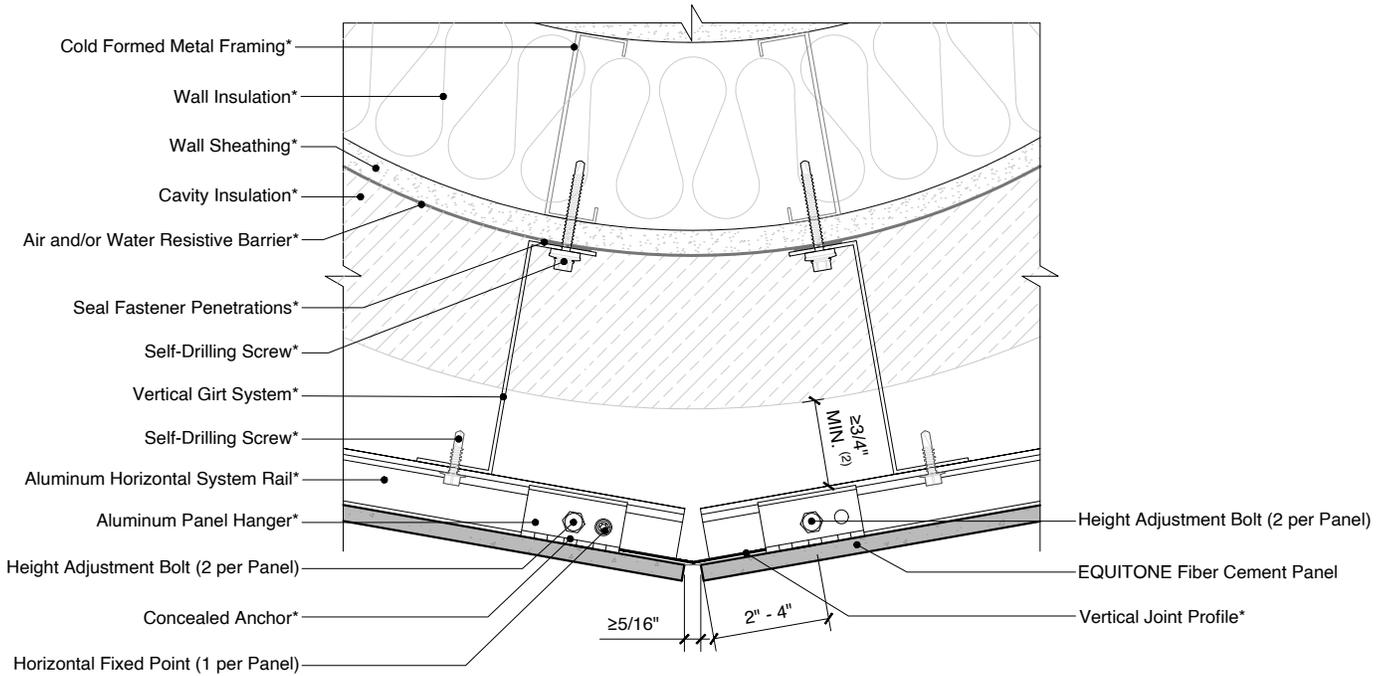
- NOTES:
1. For soffit conditions, rivet spacing should be limited to 16 inch on center and should be confirmed through project engineering.
  2. All closures, trims, screens, etc. should be held back off of the back of the panel by at least 1/16 inch.
  3. Inlet/outlet, air cavity, and closure perforation sizing will vary, from those expressed herein, depending upon the distance between inlet/outlet or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
  4. When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended to prevent debris build up. The perforation pattern should allow the same volume of air to pass through as the specified continuous open joint size specified in EQUITONE guidelines.
  5. Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
  6. Ensure there is enough room to engage the panel clips over the concealed rail system. Suggested 3/4" minimum.
  7. (\*) symbol represents materials not supplied by EQUITONE.



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SOFFIT / CEILING  
WALL JUNCTION -  
INSIDE EDGE

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



Segmented Facade - Radius

NOTES:

1. Flashing used to close the joints may not be thicker than 1/32 in (23 gauge), including the thickness of any fastener heads.
2. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
3. (\*) symbol represents materials not supplied by EQUITONE.



DETAIL #: EQ-CF-VG-SS-CURVE

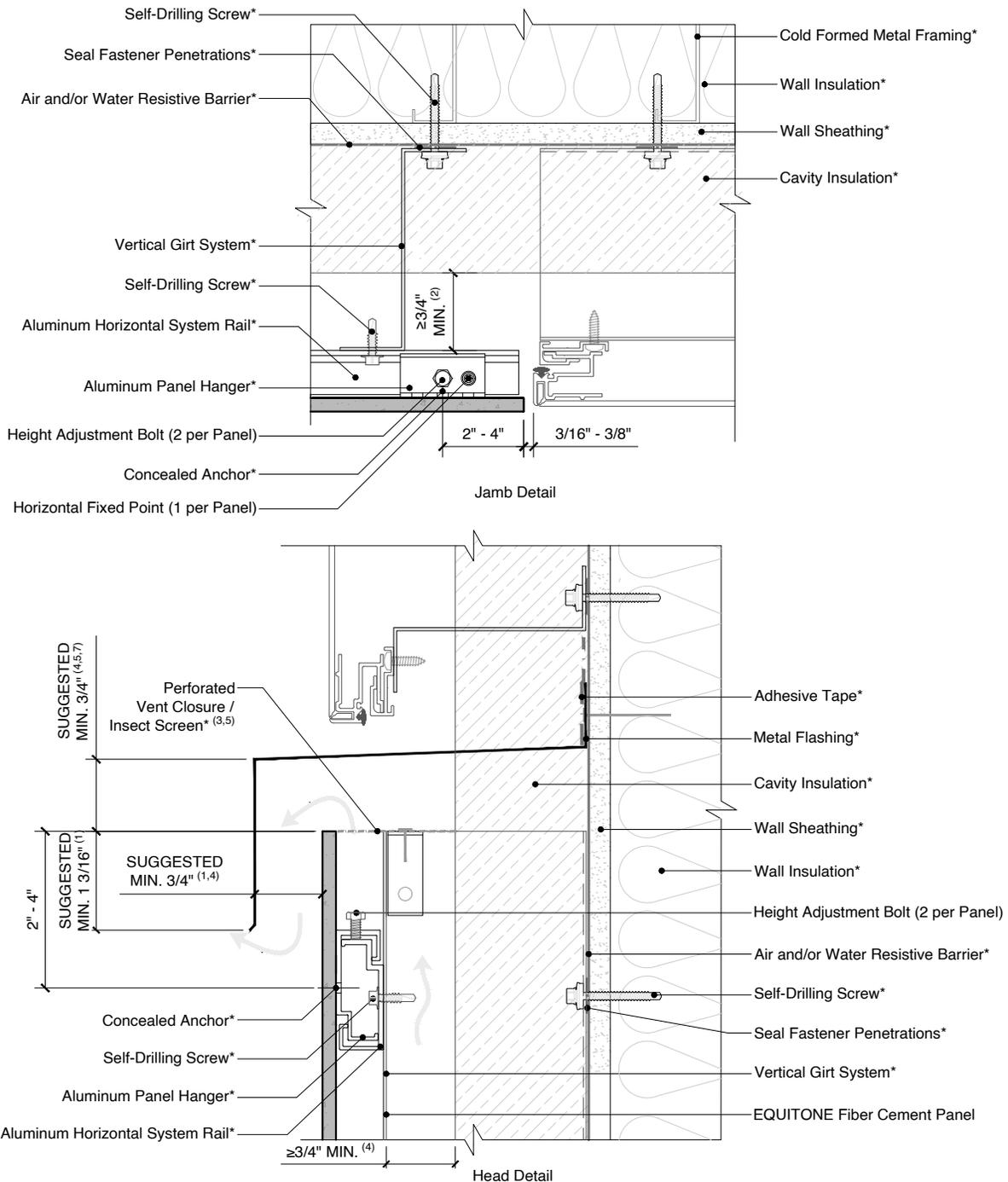
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CURVED FACADE  
DETAILS

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

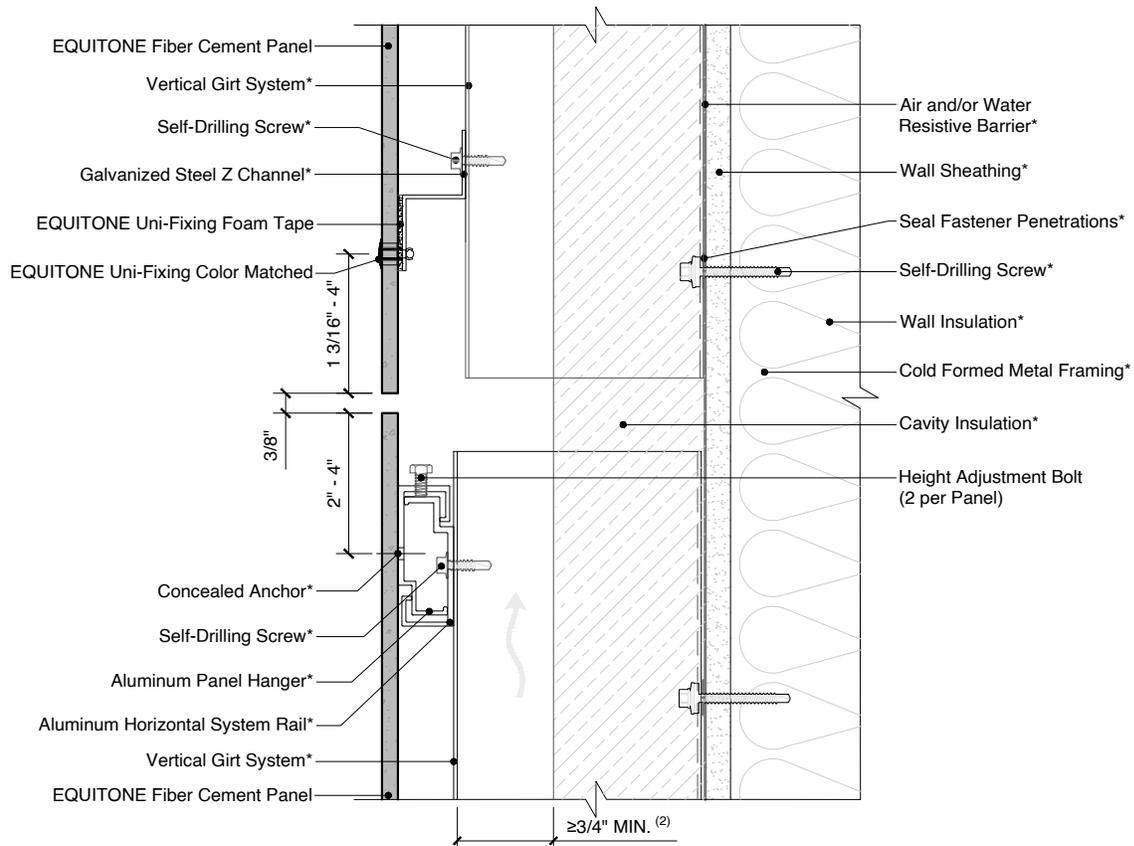
1. A smaller overlap or offset is possible, but it may increase the risk of water marks and panel staining caused by runoff. Smaller capping is also more prone to wind driven rain entering the cavity. At minimum, EQUITONE's ventilation guidelines must be followed.
2. The facade panel should preferably overhang more than 3/8 in below the ventilation profile to create a drip edge.
3. All closures, trims, screens, etc. should be held off the back of the panel by at least 1/16 inch.
4. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
5. When the inlet/outlet is wider than 3/4 inch continuous, a perforated closure is recommended to prevent debris build up. The perforation pattern should allow the same volume of air to pass through as the specified continuous open joint size specified in EQUITONE guidelines.
6. Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
7. Ensure there is enough room to engage the panel clips over the concealed rail system.
8. (\*) symbol represents materials not supplied by EQUITONE.



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JUNCTION WITH  
OTHER FACADE  
MATERIAL DETAILS

# EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



**NOTES:**

1. The ventilation path must be maintained between varying systems to allow clear vertical air flow.
2. Inlet/outlet, air cavity, and closure perforation sizing will vary, from those expressed herein, depending upon the distance between inlet/outlet or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
3. (\*) symbol represents materials not supplied by EQUITONE.



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**EXPOSED FASTENER -  
CONCEALED FASTENER  
JUNCTION**

## General Information

This document provides generic construction details for EQUITONE façade systems with exposed fasteners to assist with the design of the EQUITONE façade.

This document is not designed to serve as an installation guide and is intended to be used in conjunction with the relevant EQUITONE Planning and Application Guide and other technical and installation documents

The details included in this document only illustrate general principles for detailing EQUITONE at different typical interfaces and are not to be relied upon for weatherproofing and fire safety compliance with local regulations. The weatherproofing and fire performance of any project-specific detail or application shall be evaluated by the project engineer or consultant.

Any components related to wind barriers, fire safety, moisture management, and weatherproofing include but are not limited to membranes, flashing, water seals and sealants, airtightness tapes, horizontal and/or vertical fire barriers, etc. will need to be applied according to local regulations, project requirements, and relevant standards.

The support frame, fixings, flashings, and the like shall be of adequate corrosion resistance appropriate to the corrosivity category of the project location.

All dimensions in this document are in inches [in] unless otherwise stated.

The information in this guide is comprehensive but not exhaustive, and the reader will need to satisfy themselves that the contents of this guide are suitable for their intended application. It is the responsibility of the project consultants (designers, architects, and engineers) to ensure that the information and details provided in this document are appropriate for the project.

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