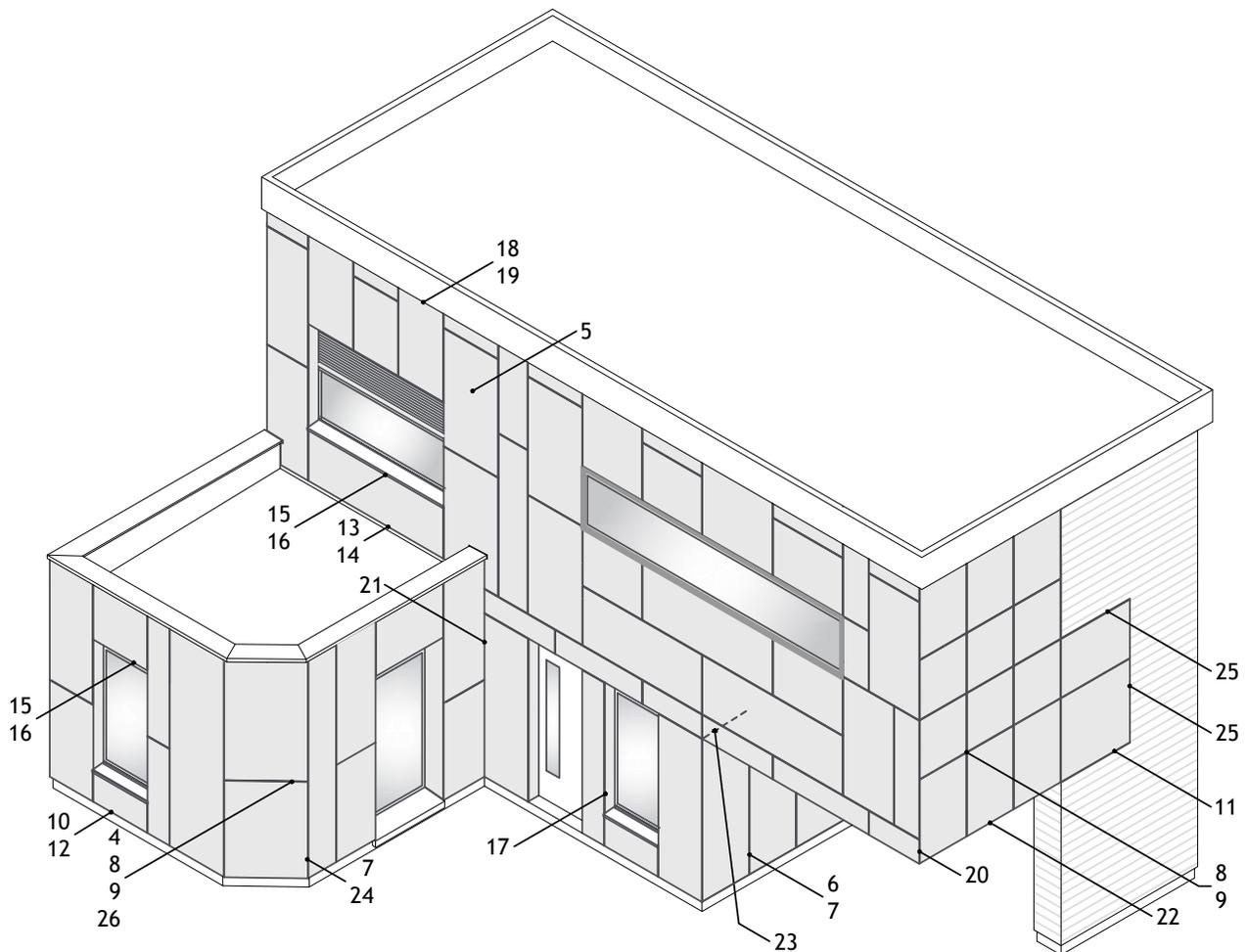




EQUITONE Exposed Fastener Aluminum Clip and Rail Systems on Steel Stud Construction Details



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 EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION

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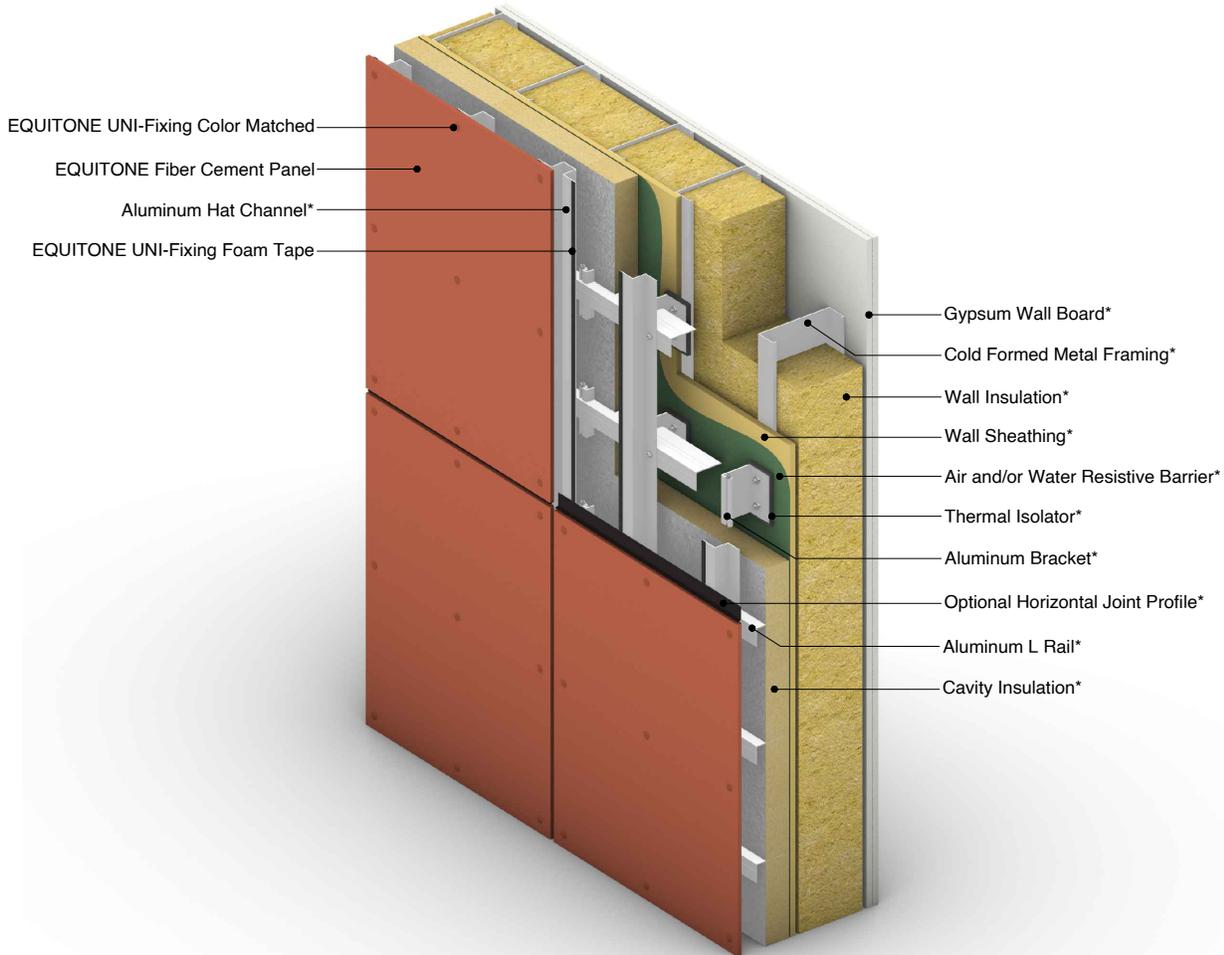
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INDEX

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



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

DISCLAIMERS:

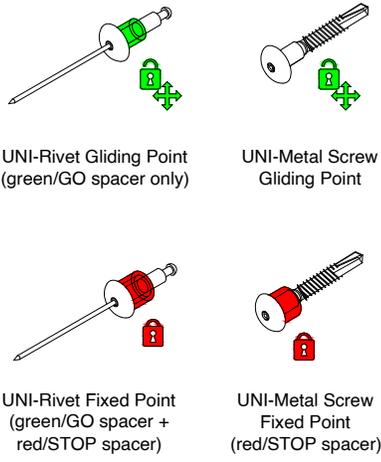
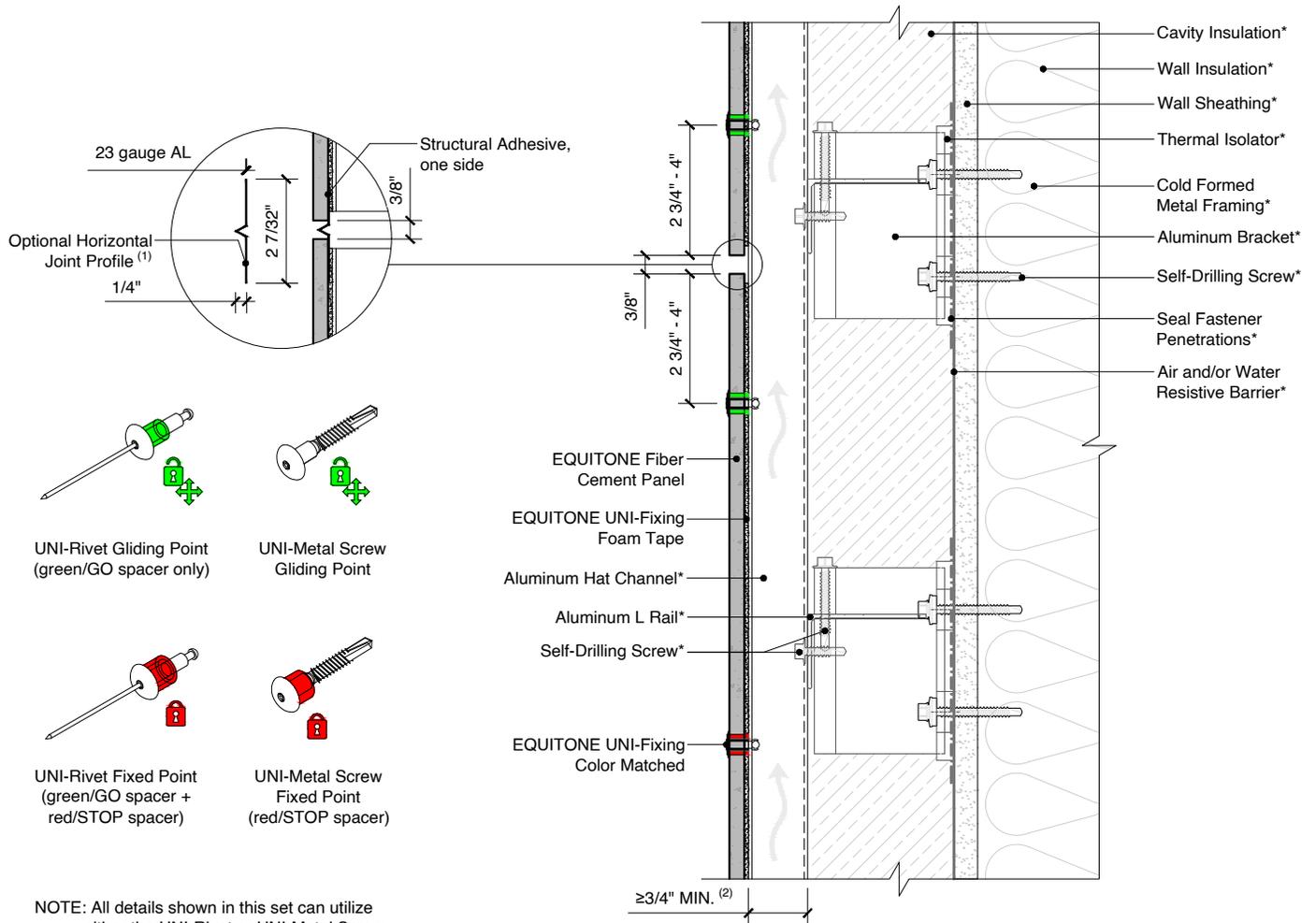
THESE DETAILS ARE PROVIDED AS A GUIDELINE FOR PROPER PANEL AND ASSOCIATED COMPONENT INSTALLATION, AND ARE BASED ON INDUSTRY ACCEPTED PRACTICES. LOCATION OF VAPOR BARRIERS, INSULATION AND ASSOCIATED FLASHINGS AND SEALANTS IN THESE DETAILS ARE BASED ON VENTILATED RAINSCREEN DESIGN PRACTICES FOR MOST U.S. 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. CARE HAS BEEN TAKEN TO ENSURE THAT THE CONTENTS OF THIS PUBLICATION ARE ACCURATE, ETEX, SAINV 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, SAINV LIMITED AND ITS SUBSIDIARIES ACCEPT NO LIABILITY IN RESPECT THEREOF.



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3D ASSEMBLY
DETAIL

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTE: All details shown in this set can utilize either the UNI-Rivet or UNI-Metal Screw type fixings shown above.

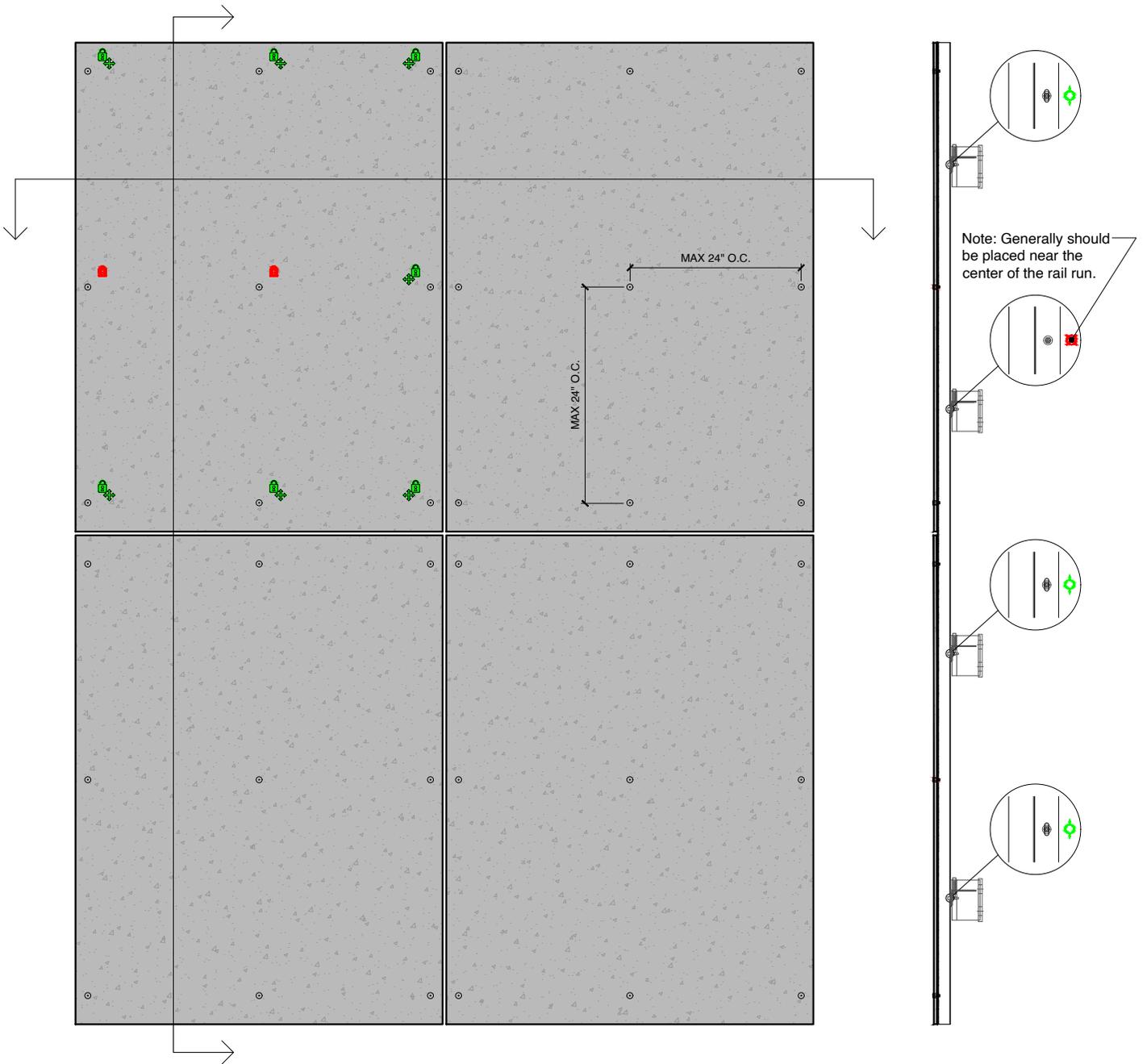
- NOTES:
1. Flashing used to close the joints may not be thicker as 1/32 in (23 gauge), including the thickness of any fastener heads.
 2. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation.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



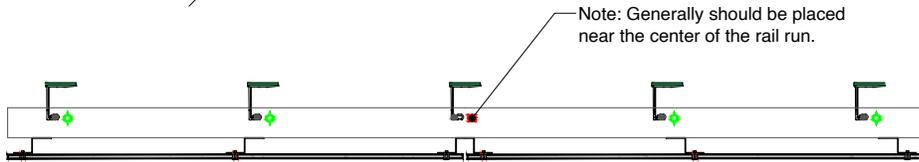
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RELATION BETWEEN
FIXED AND
SLIDING POINTS

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



Note: Generally should be placed near the center of the rail run.



NOTES:

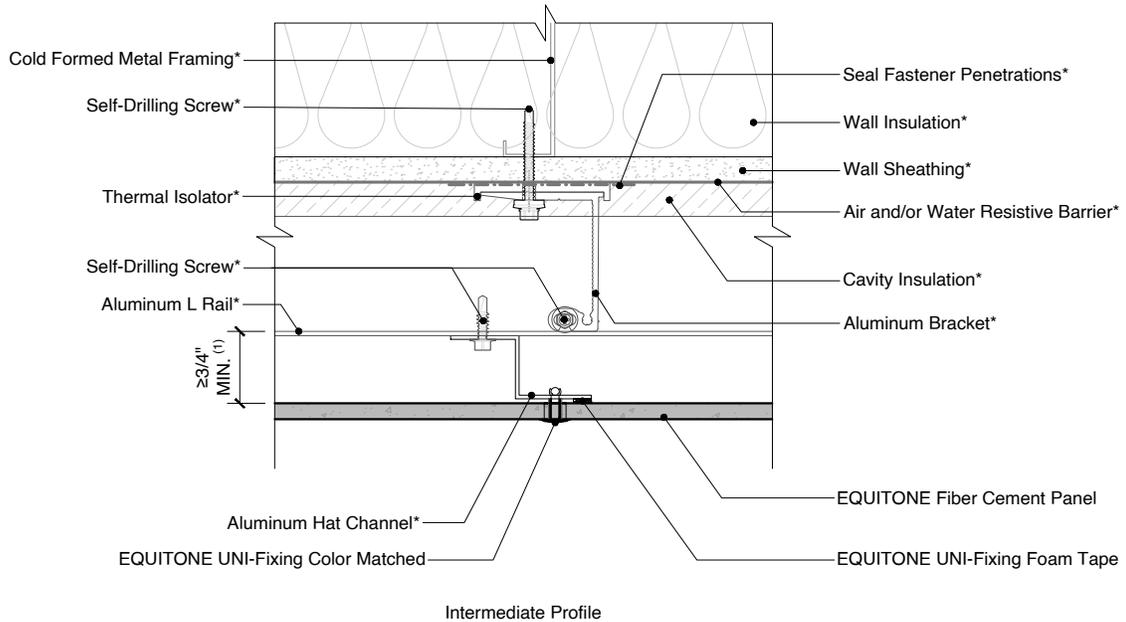
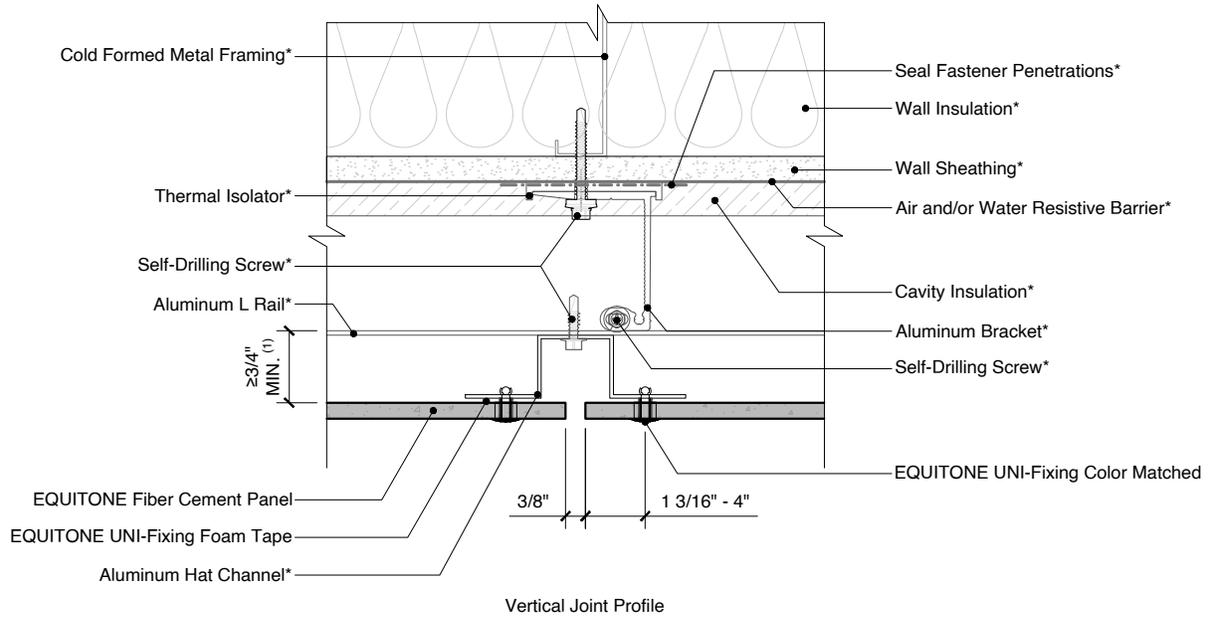
1. The following is a representation of the importance of allowing the sub-framing system to expand and contract in addition to the movement within the UNI-fixing systems. These are general guidelines and do not encompass all situations.
2. Recommend maximum rail lengths to be 10'-0".



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RELATION BETWEEN
SUB-FRAMING AND PANEL
EXPANSION POINTS

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

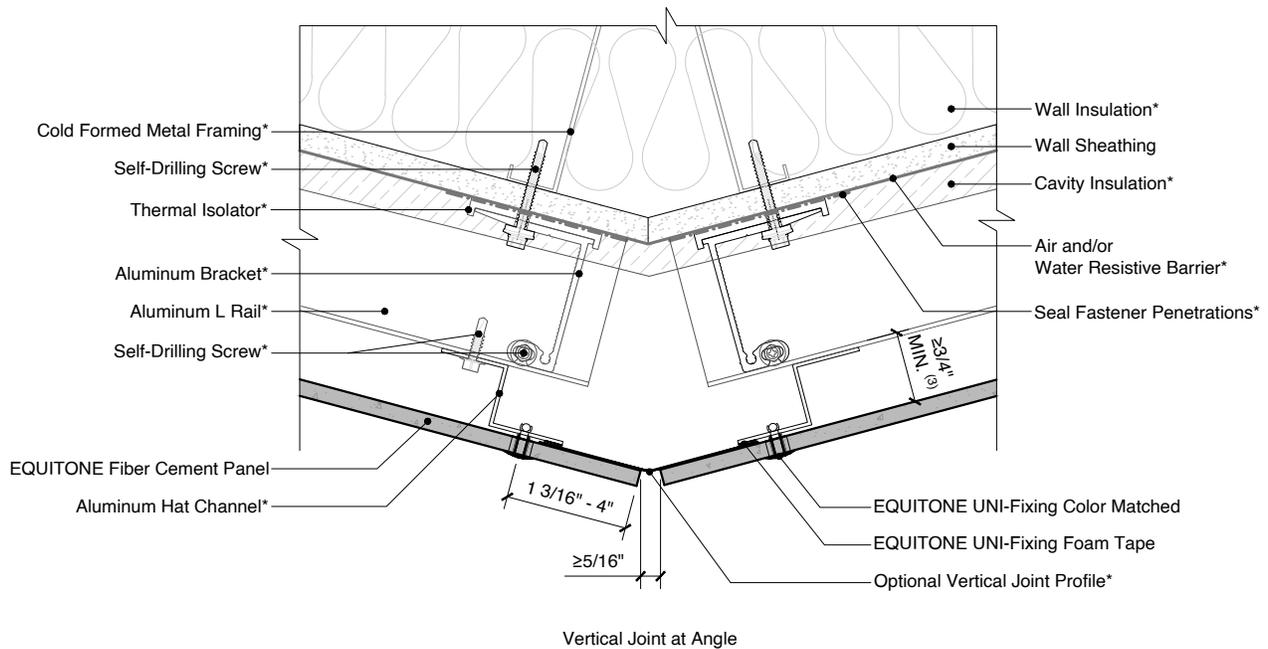
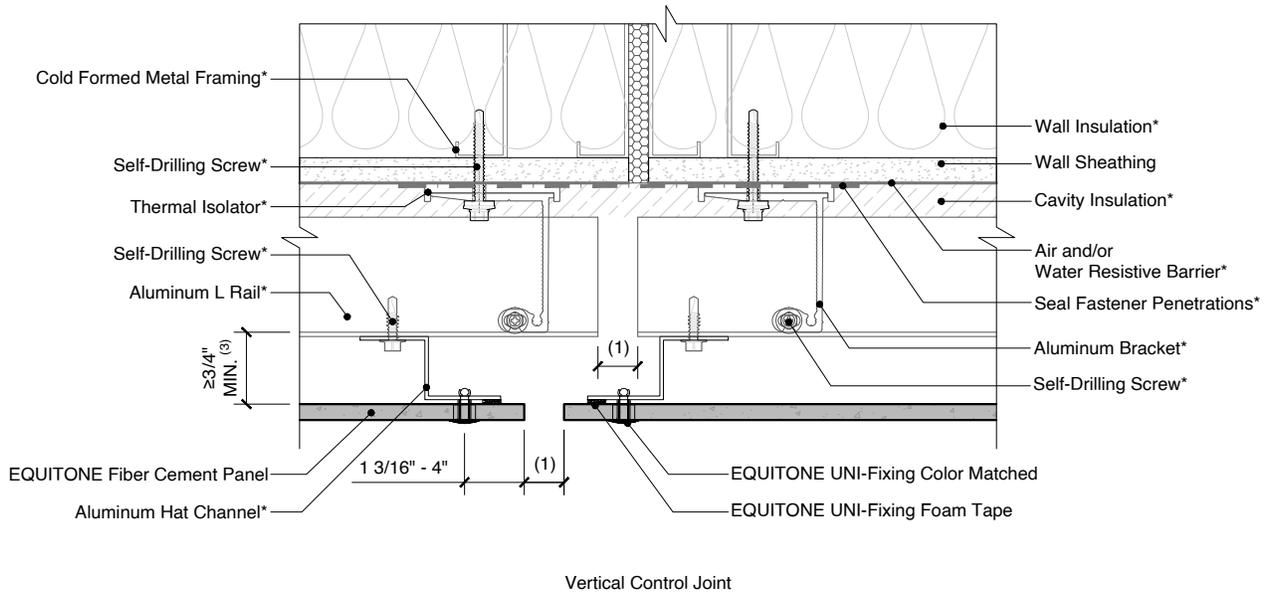
1. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
2. (*) symbol represents materials not supplied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



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VERTICAL
 PROFILE DETAILS

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

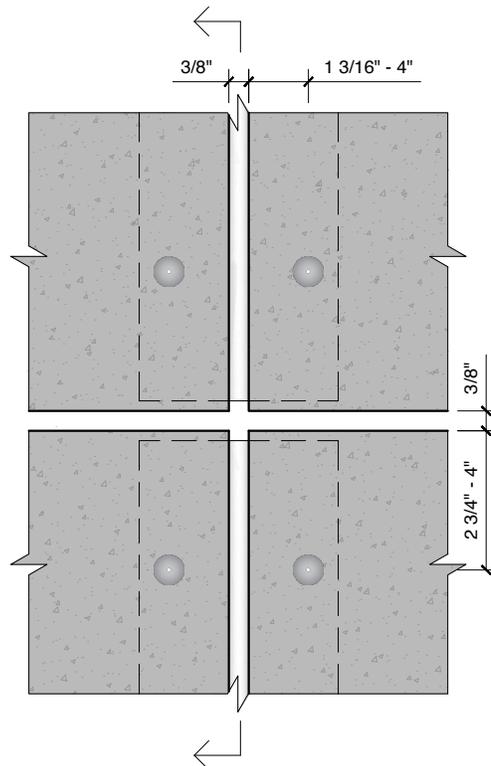
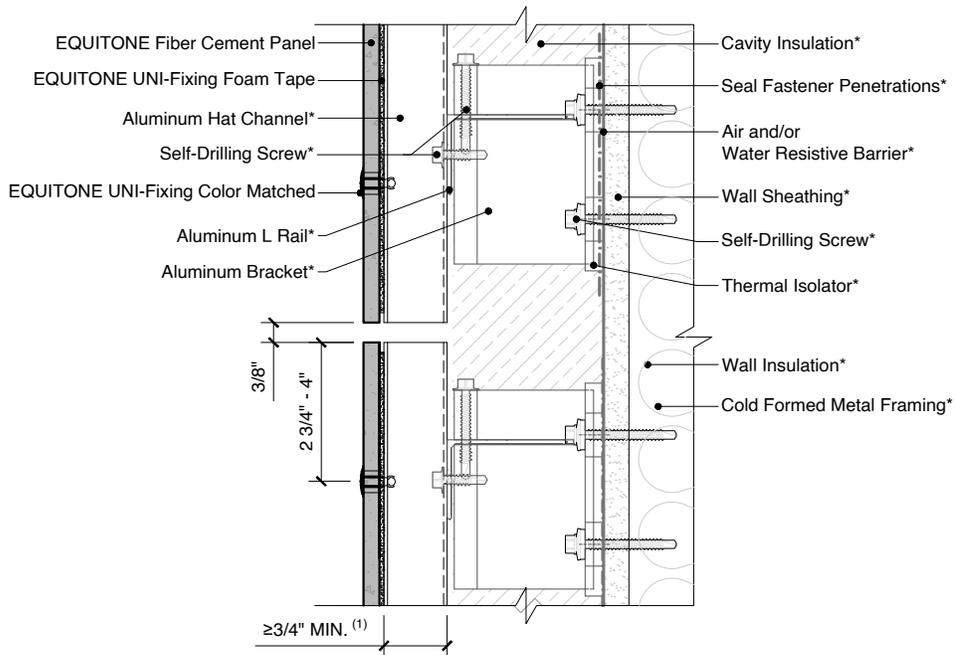
1. The width of the the facade control joint should be equal or greater than the building control joint.
2. Flashing used to close the joints may not be thicker as 1/32 in (23 gauge), including the thickness of any fastener heads.
3. Inlet/Outlet, air cavity, and closure perforation sizing should be 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.
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VERTICAL JOINT
DETAILS

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

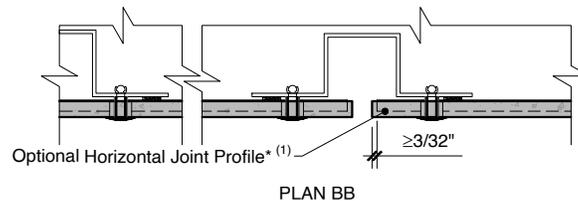
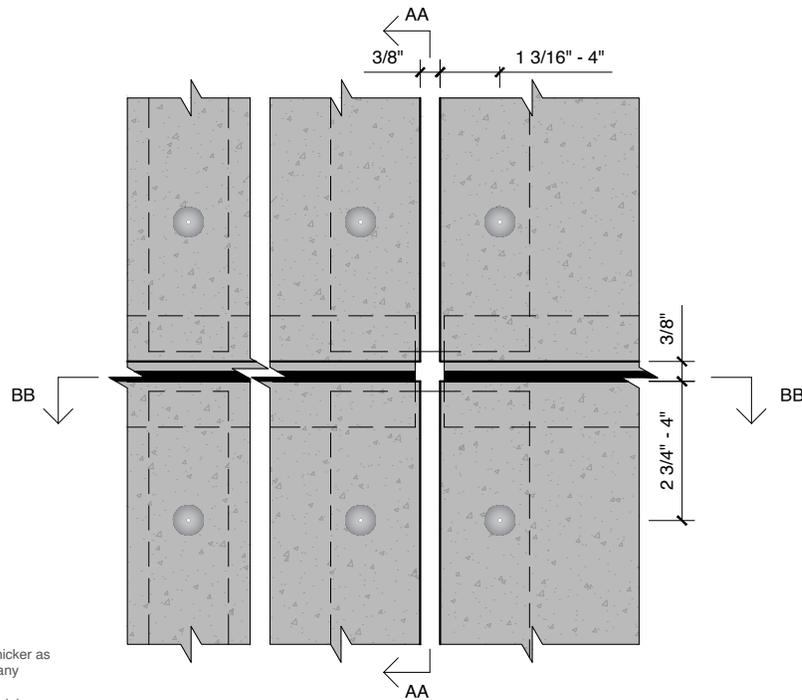
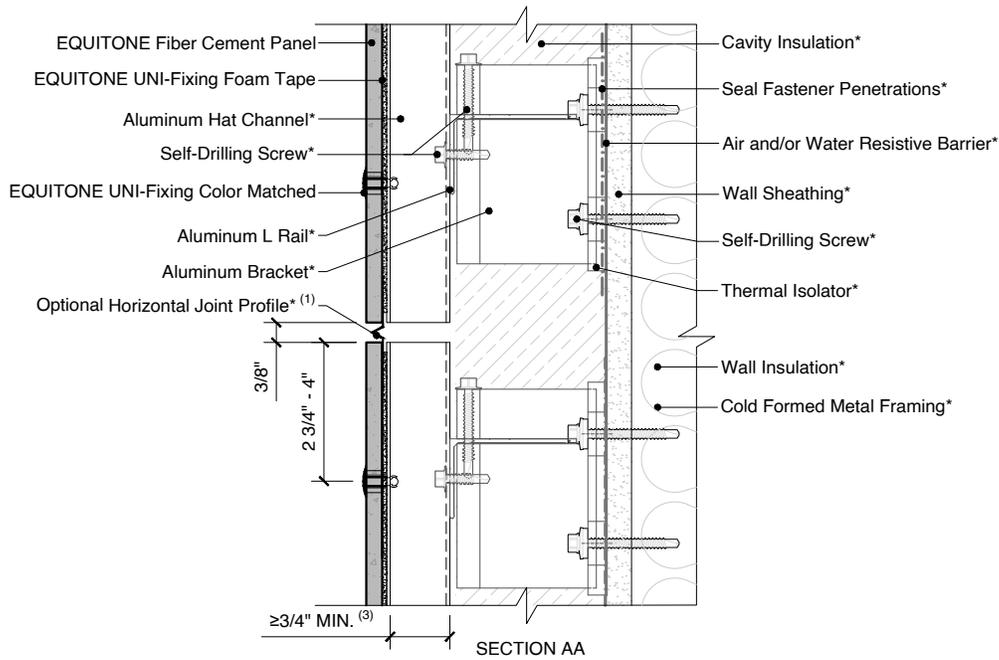
1. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
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OPEN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

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

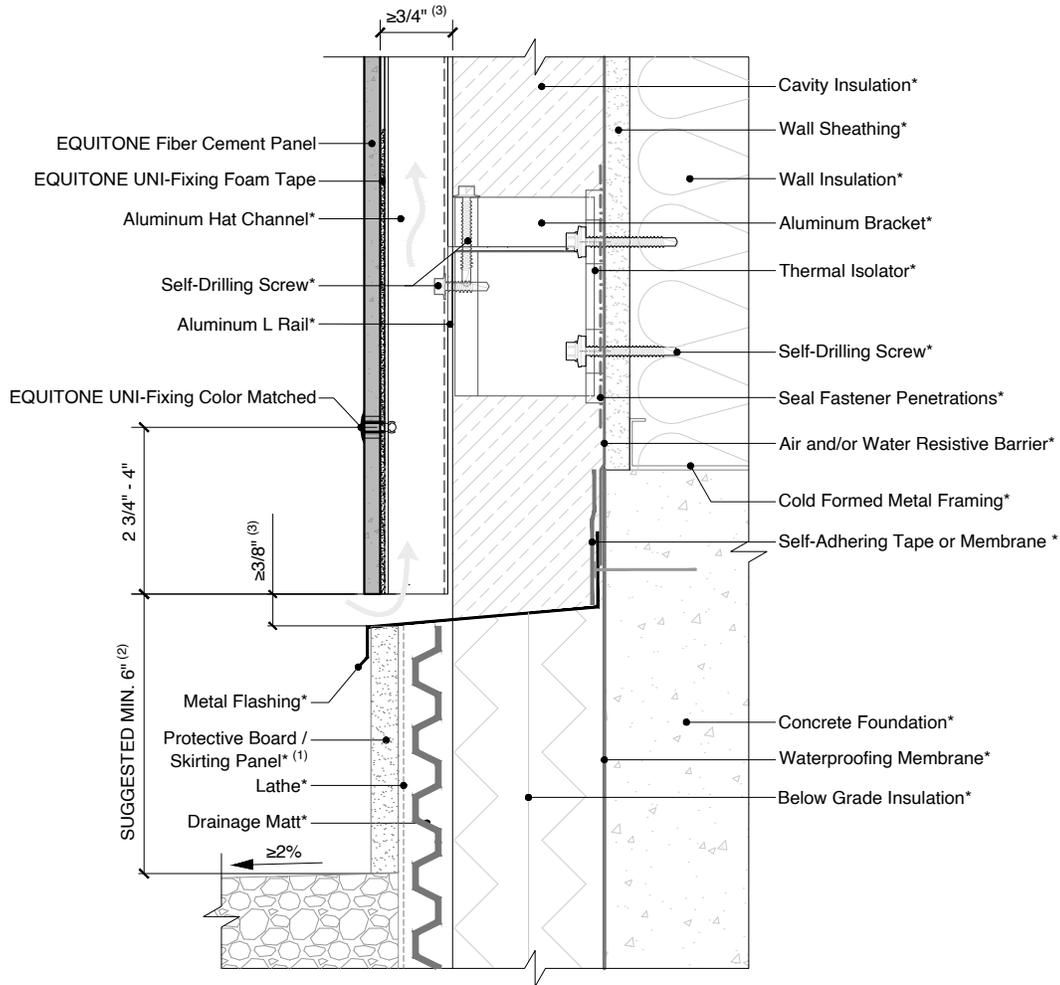
1. Flashing used to close the joints may not be thicker as 1/32 in (23 gauge), including the thickness of any fastener heads.
2. Closing the horizontal joint may increase the minimum ventilation requirements. See EQUITONE Planning and Application Guide for more information.
3. Inlet/Outlet, air cavity, 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 EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

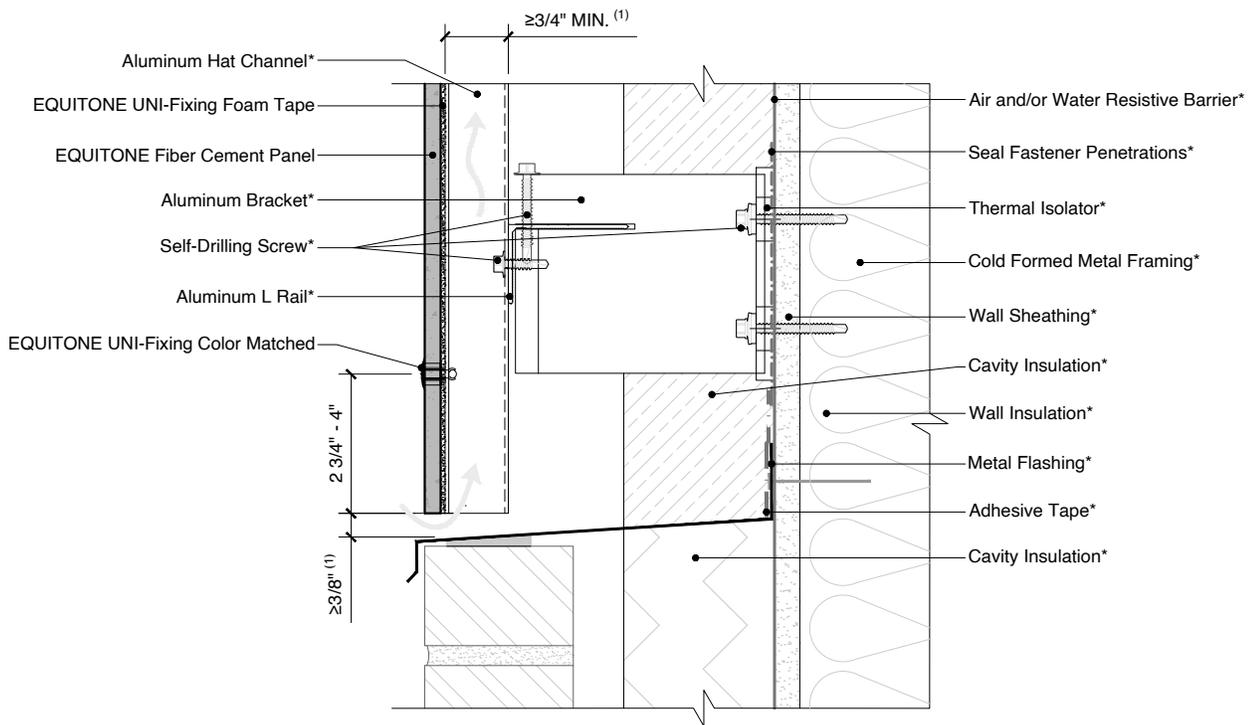
1. The skirting board could be concrete, natural stone, render, metal flashing, etc.
2. A smaller ground clearance is possible, but it may increase the risk of water marks and panel staining caused by splash back.
3. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those 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.



DETAIL #: EQ-EF-ALCR-SS-BGL
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**BASE DETAIL -
GROUND LEVEL**

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

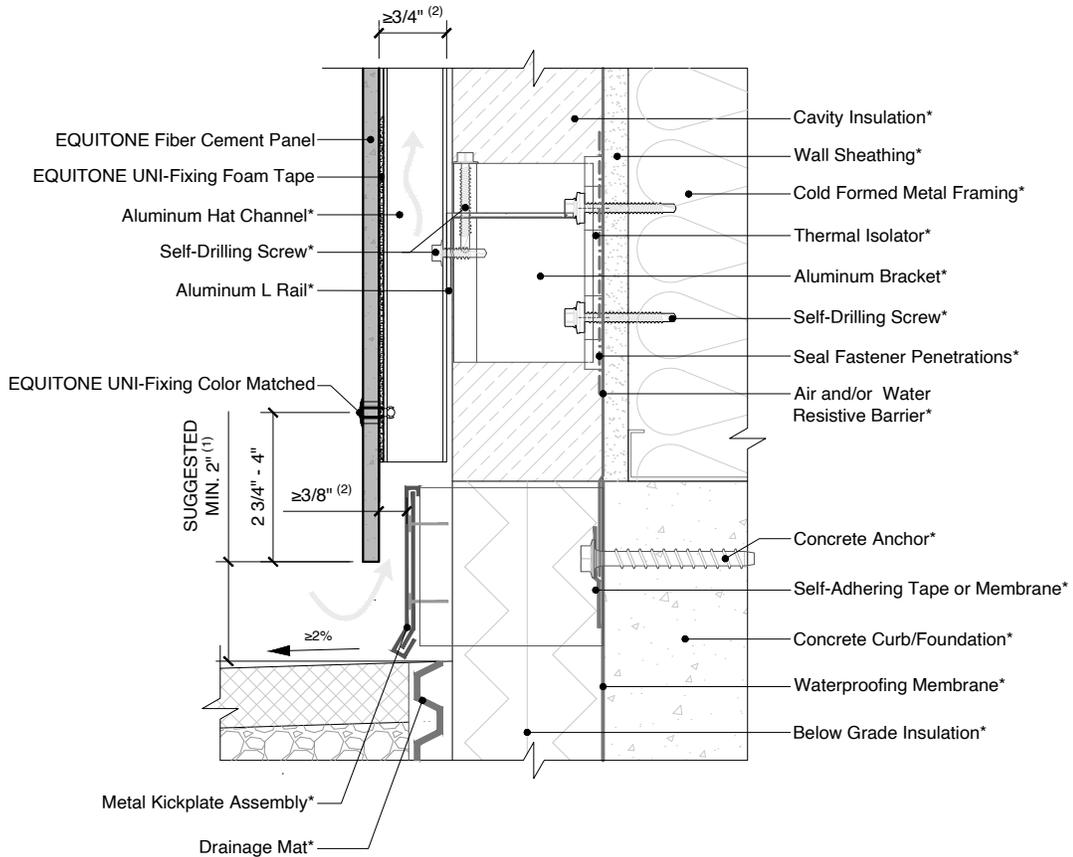
1. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
2. (*) symbol represents materials not supplied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



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BASE DETAIL - JUNCTION
 WITH OTHER FACADE
 MATERIAL DETAIL

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

1. A smaller ground clearance is possible, but it may increase the risk of water marks and panel staining caused by splash back.
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-EF-ALCR-SS-BCA

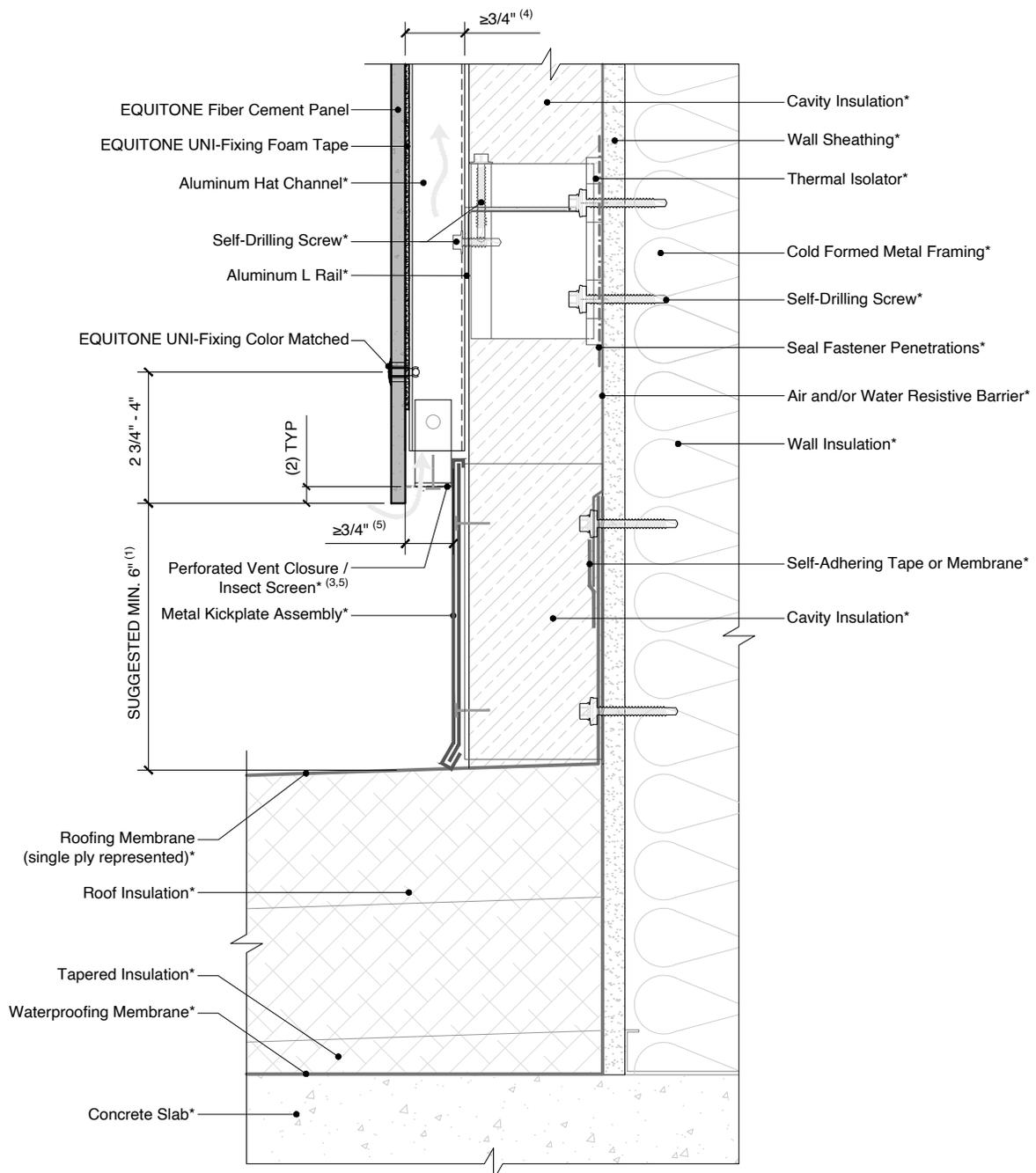
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BASE DETAIL -
COVERED AREA

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

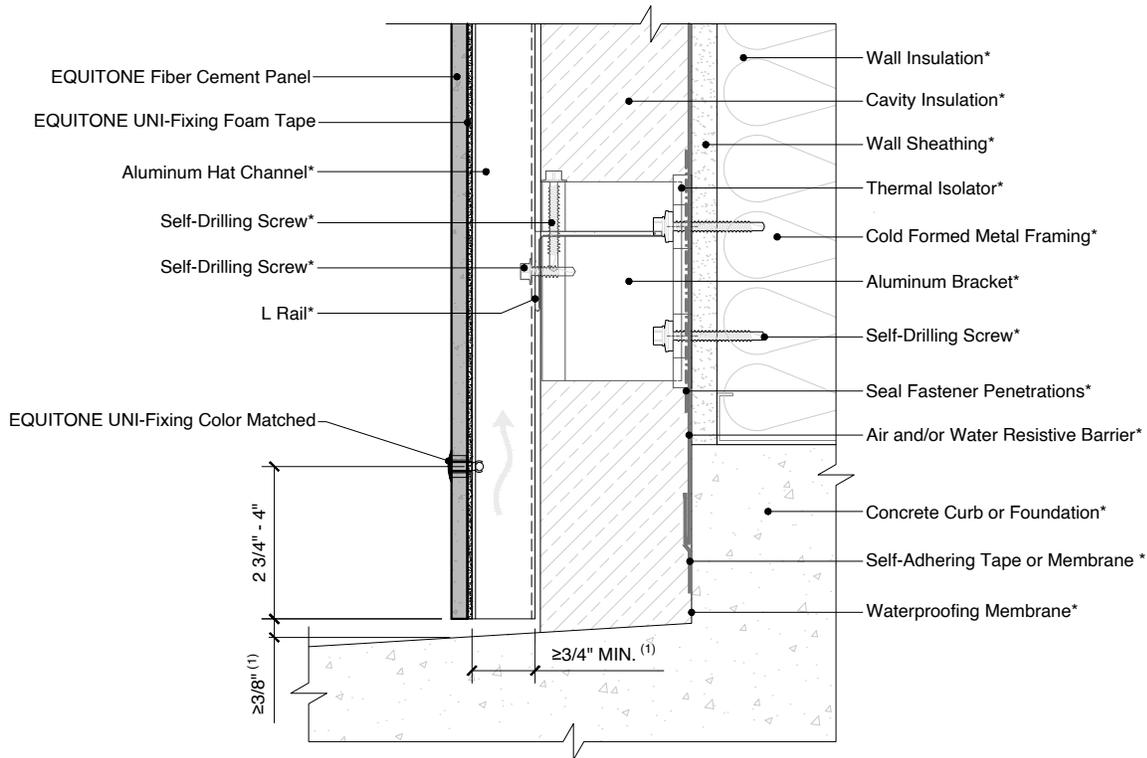
1. A smaller ground clearance is possible, but it may increase the risk of water marks and panel staining caused by splash back.
2. The facade panel should preferably overhang more than 3/8 in below the ventilation profile to create a drip edge.
3. All closures, trims, screens, etc. should be held off 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. (*) symbol represents materials not supplied by EQUITONE.



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BASE DETAIL -
FLAT ROOF

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

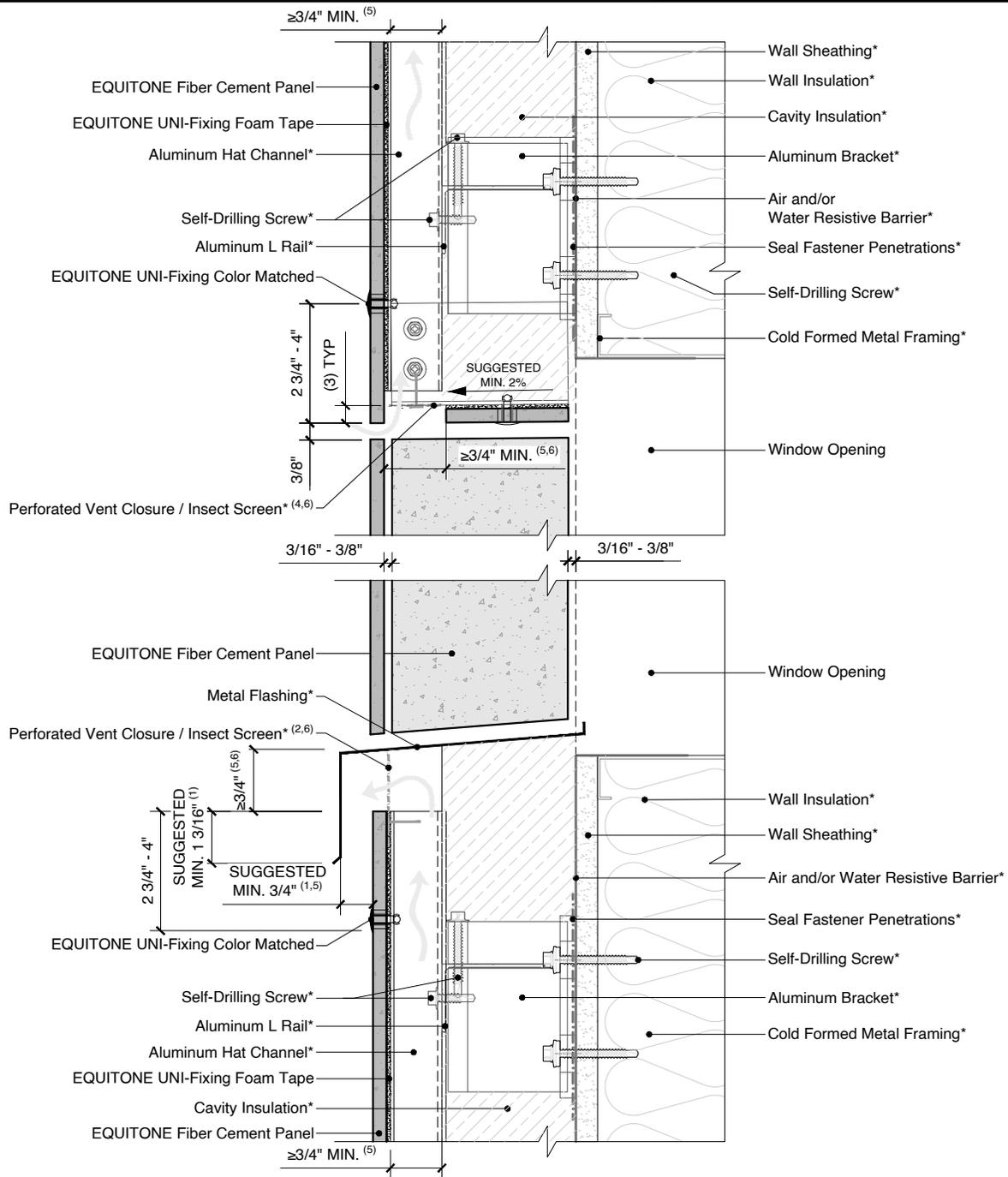
1. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
2. (*) symbol represents materials not supplied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



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**BASE DETAIL -
BALCONY**

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

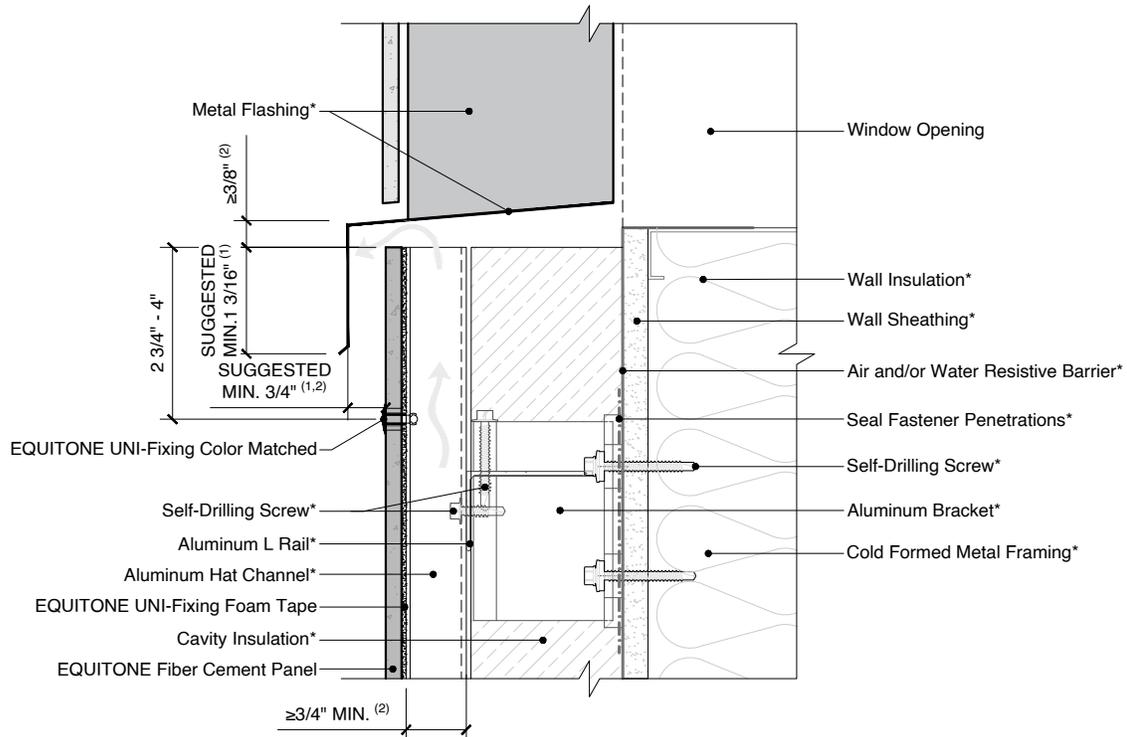
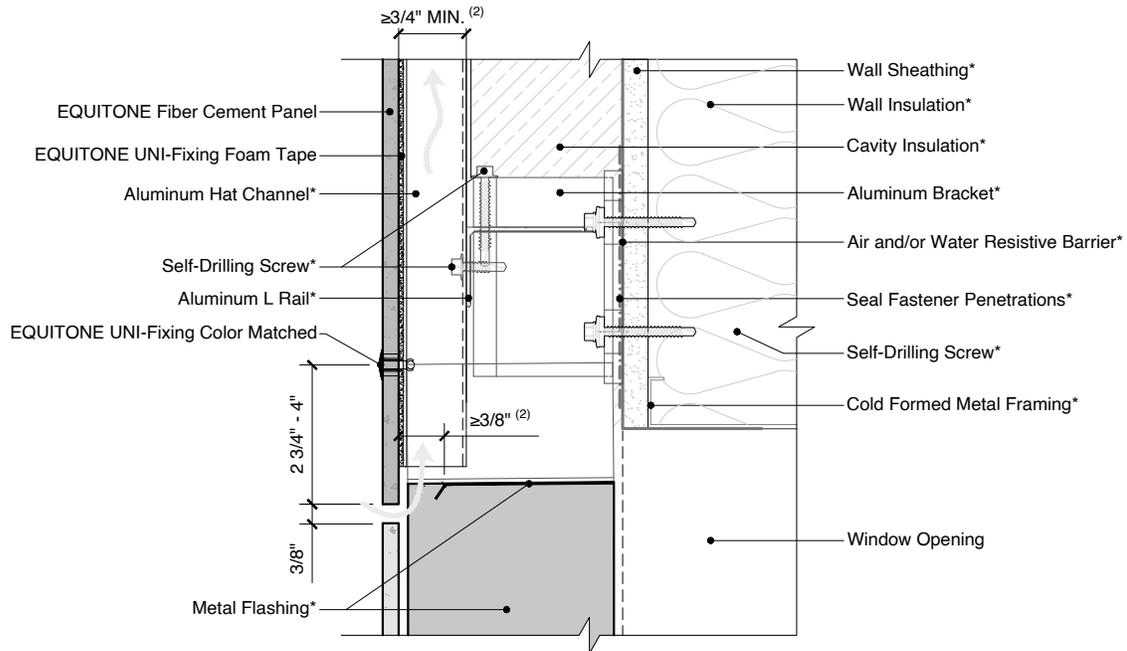
1. A smaller overlap or offset is possible, but it may increase the risk of water marks and panel staining caused by runoff. Smaller capping is also more prone to wind driven rain entering the cavity. At minimum, EQUITONE's ventilation guidelines must be followed.
2. Flashing used to close the joints may not be thicker than 1/32 inch (23 gauge), including the thickness of any fastener heads.
3. The facade panel should preferably overhang more than 3/8 inch 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.



DETAIL #: EQ-EF-ALCR-SS-WHS1
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**WINDOW HEAD AND
SILL DETAILS -
OPTION 1**

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

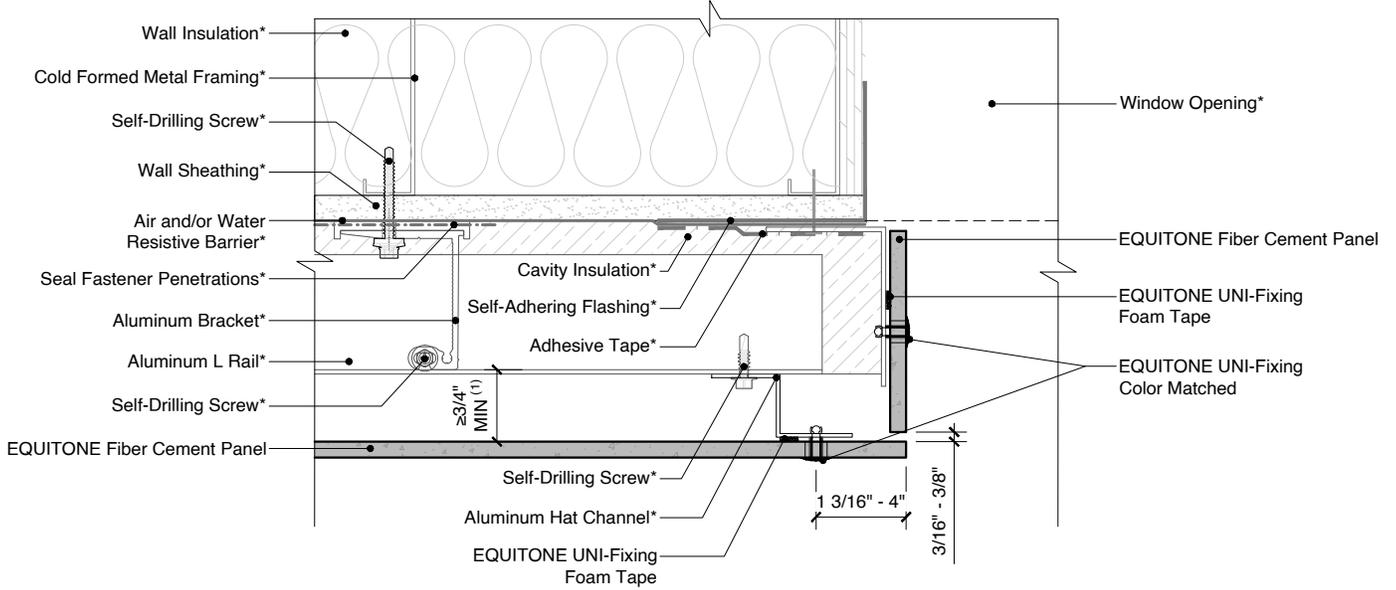
1. A smaller overlap or offset is possible, but it may increase the risk of water marks and panel staining caused by runoff. Smaller capping is also more prone to wind driven rain entering the cavity. At minimum, EQUITONE's ventilation guidelines must be followed.
2. Inlet/Outlet, air cavity, and closure 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.



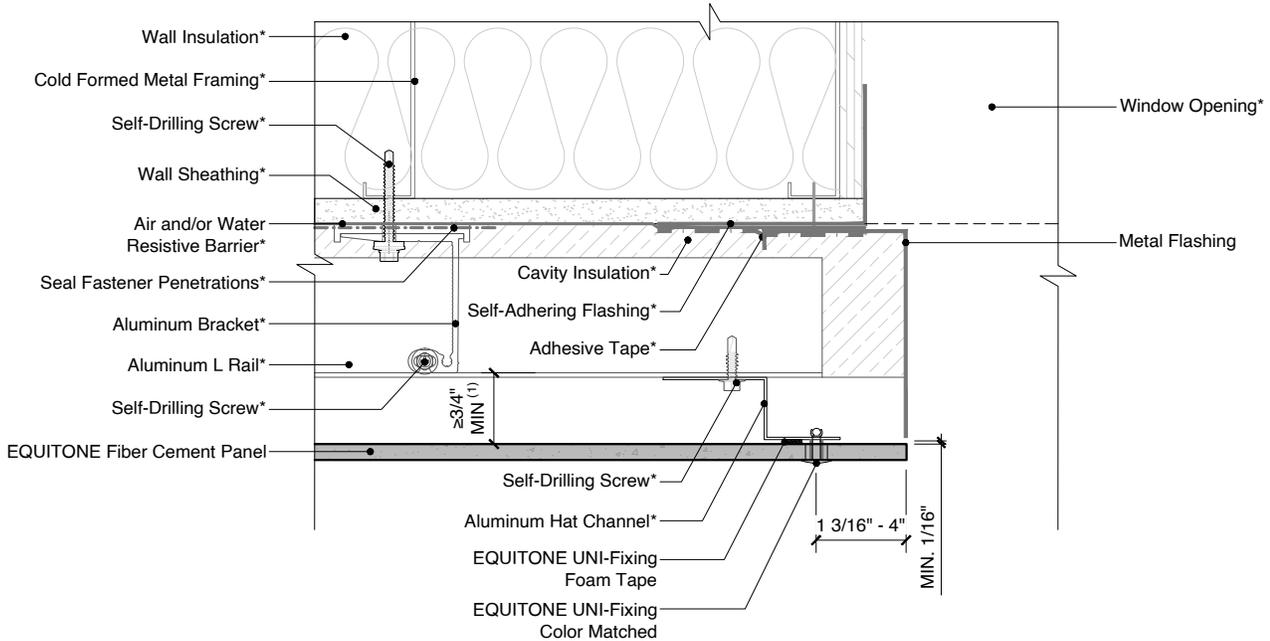
DETAIL #: EQ-EF-ALCR-SS-WHS2
 RELEASE: 202412
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WINDOW HEAD AND
 SILL DETAILS -
 OPTION 2

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



Jamb Detail - Option 1



Jamb Detail - Option 2

NOTES:

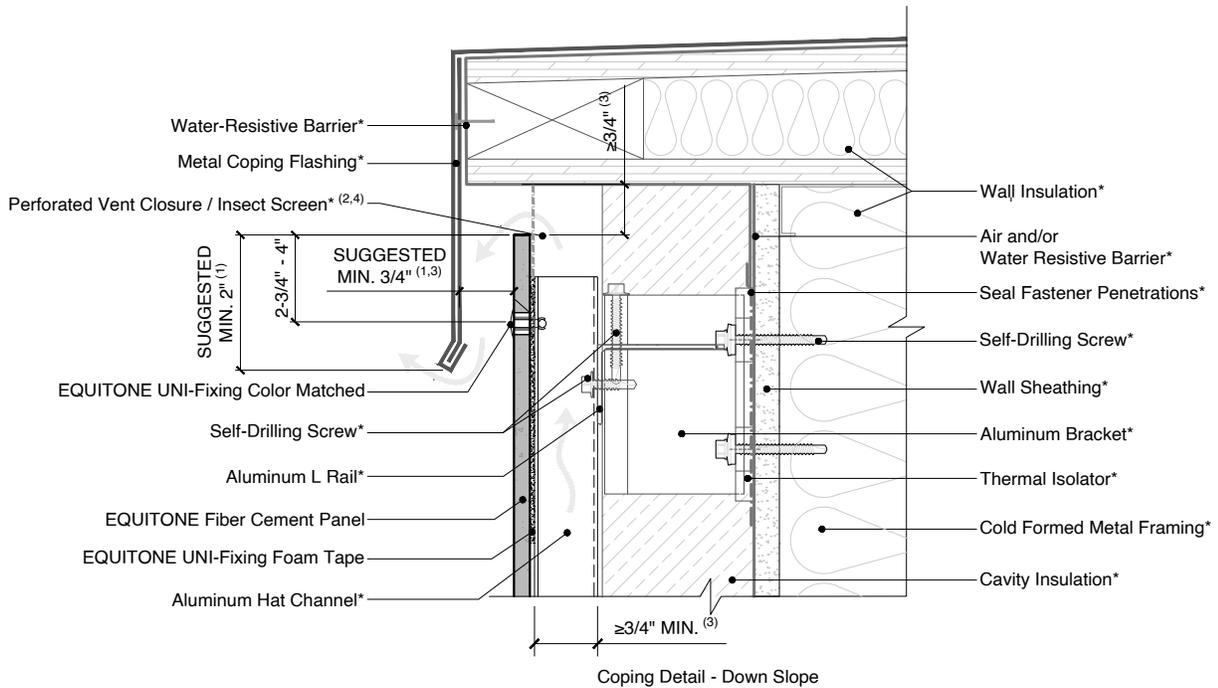
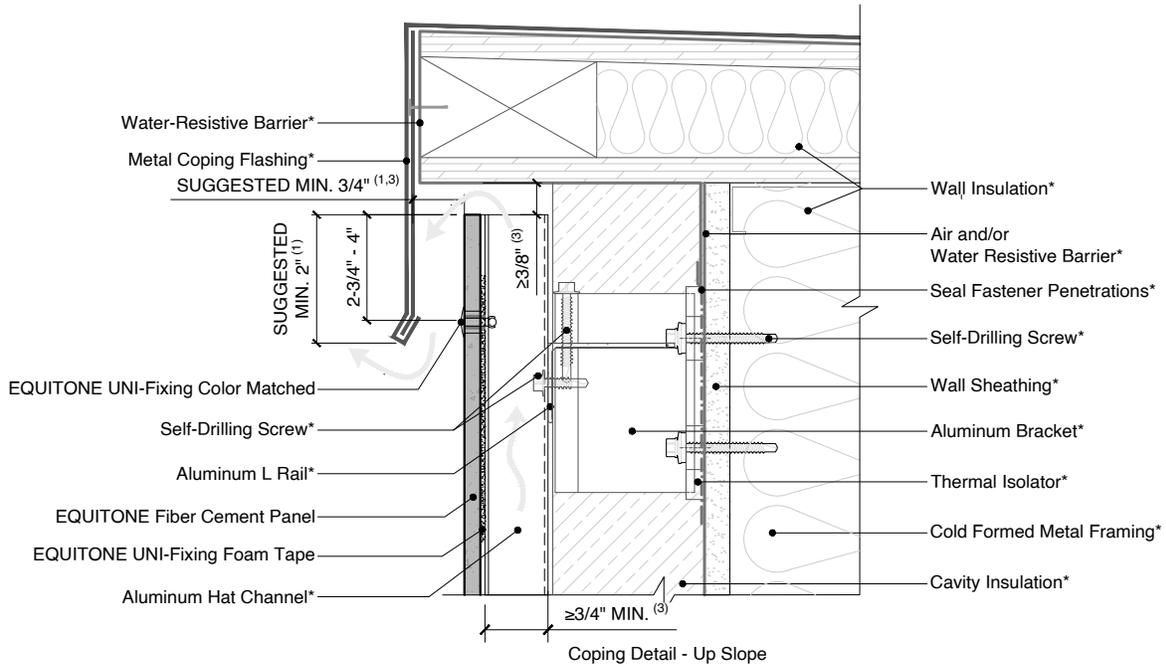
1. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
2. (*) symbol represents materials not supplied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



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JAMB DETAIL
 OPTIONS

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL 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. 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. The depicted screen is 70% perforated with a 1-7/16 inch opening equating to a continuous open joint size of 1 inch.
5. Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
6. (*) symbol represents materials not supplied by EQUITONE.



DETAIL #: EQ-EF-ALCR-SS-C1

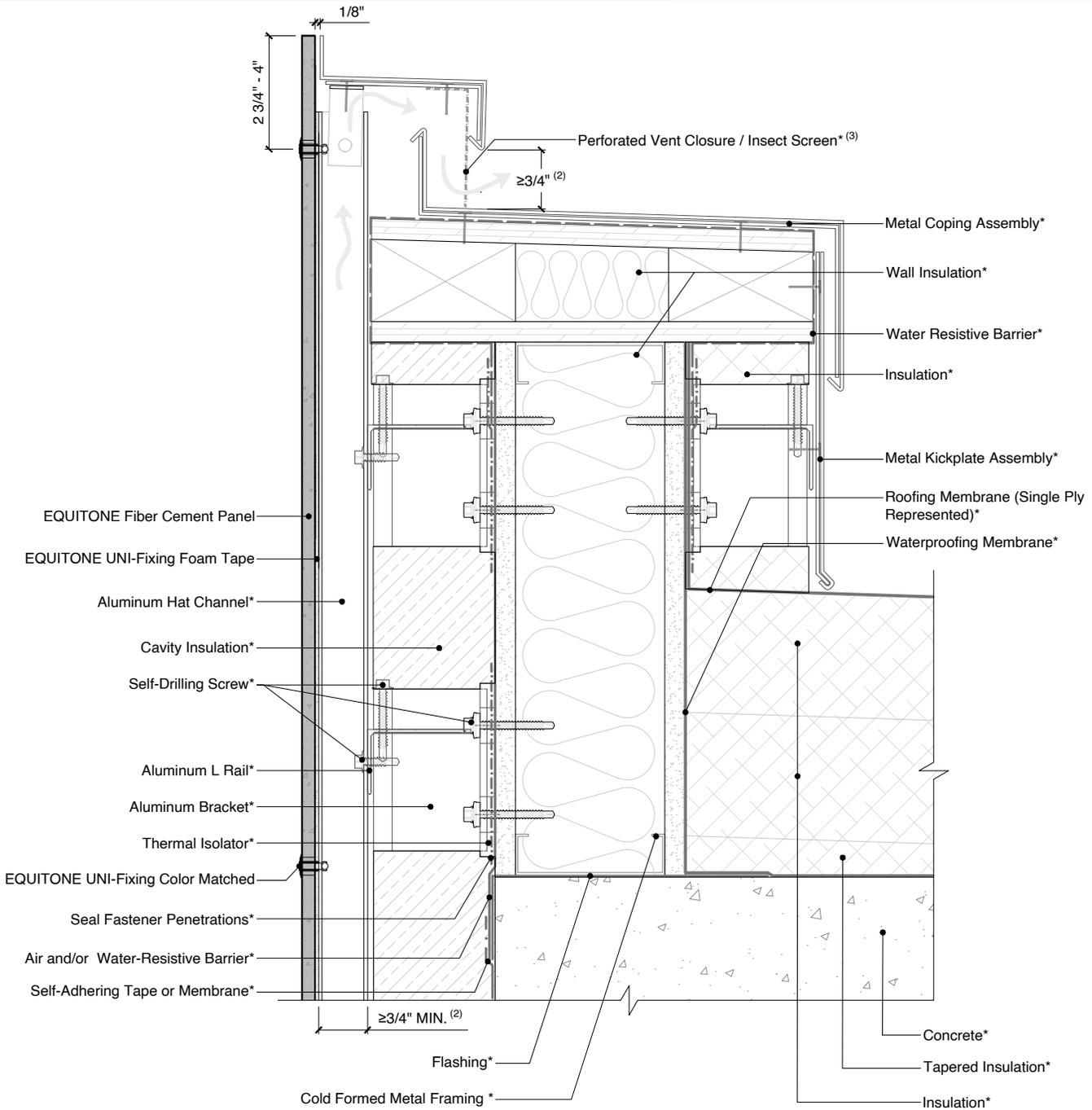
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**COPING DETAIL -
OPTION 1**

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

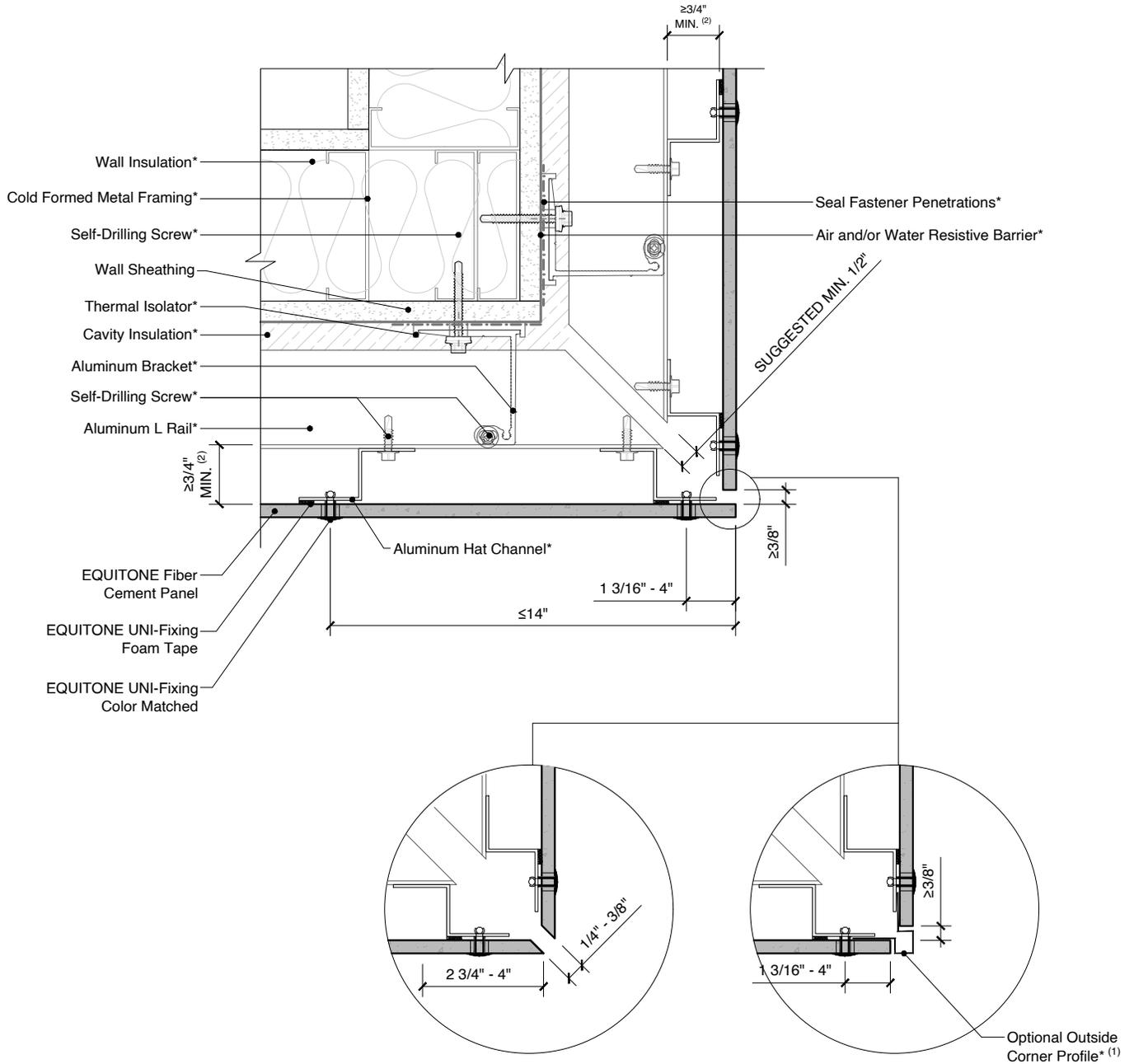
1. The following transition from roof to parapet is valid for parapets under 24" in height. Otherwise see detail EQ-EF-HG-SS-BFR.
2. Inlet/outlet, air cavity, and closure perforation sizing will vary, from those expressed herein, depending upon the distance between inlet/outlet or local legislation. 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. (*) symbol represents materials not supplied by EQUITONE.



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**COPING DETAIL -
OPTION 2**

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

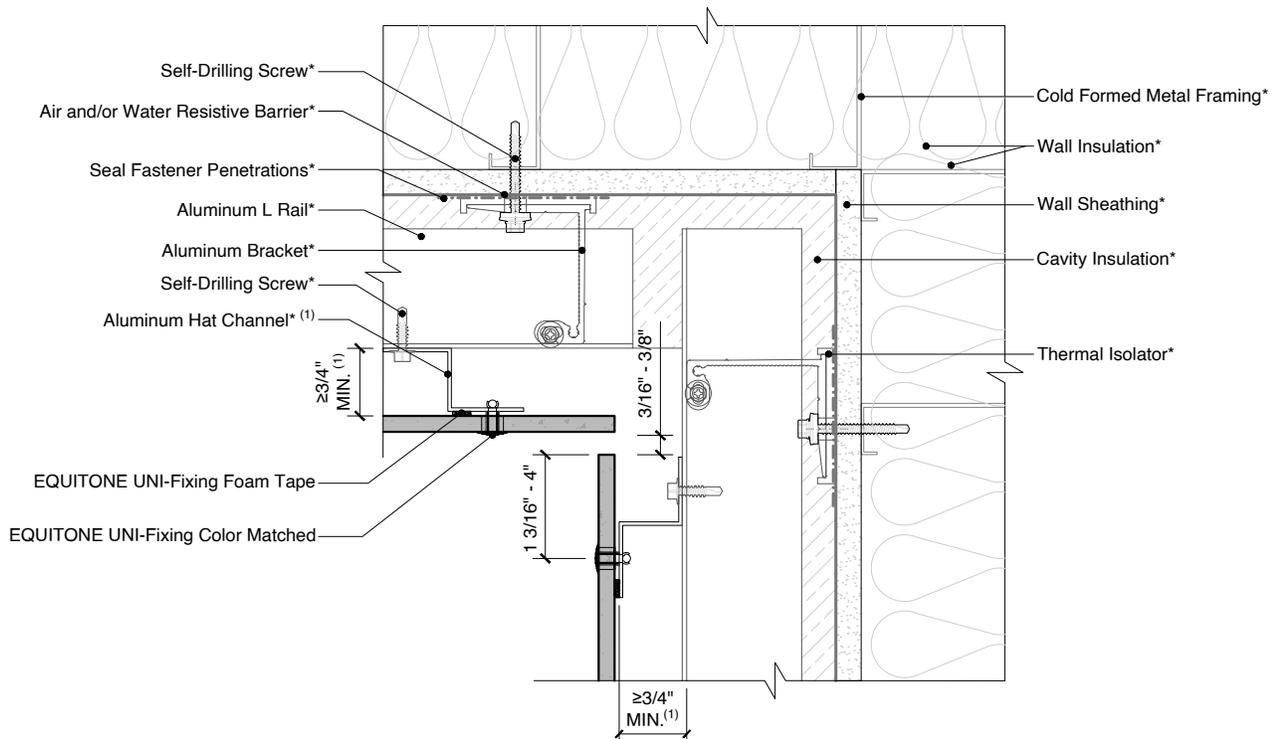
1. Flashing used to close the joints may not be thicker as 1/32 in (23 gauge), including the thickness of any fastener heads.
2. Inlet/outlet, air cavity, and closure perforation sizing will vary, from those expressed herein, depending upon the distance between inlet/outlet or local legislation. Visit 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 EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

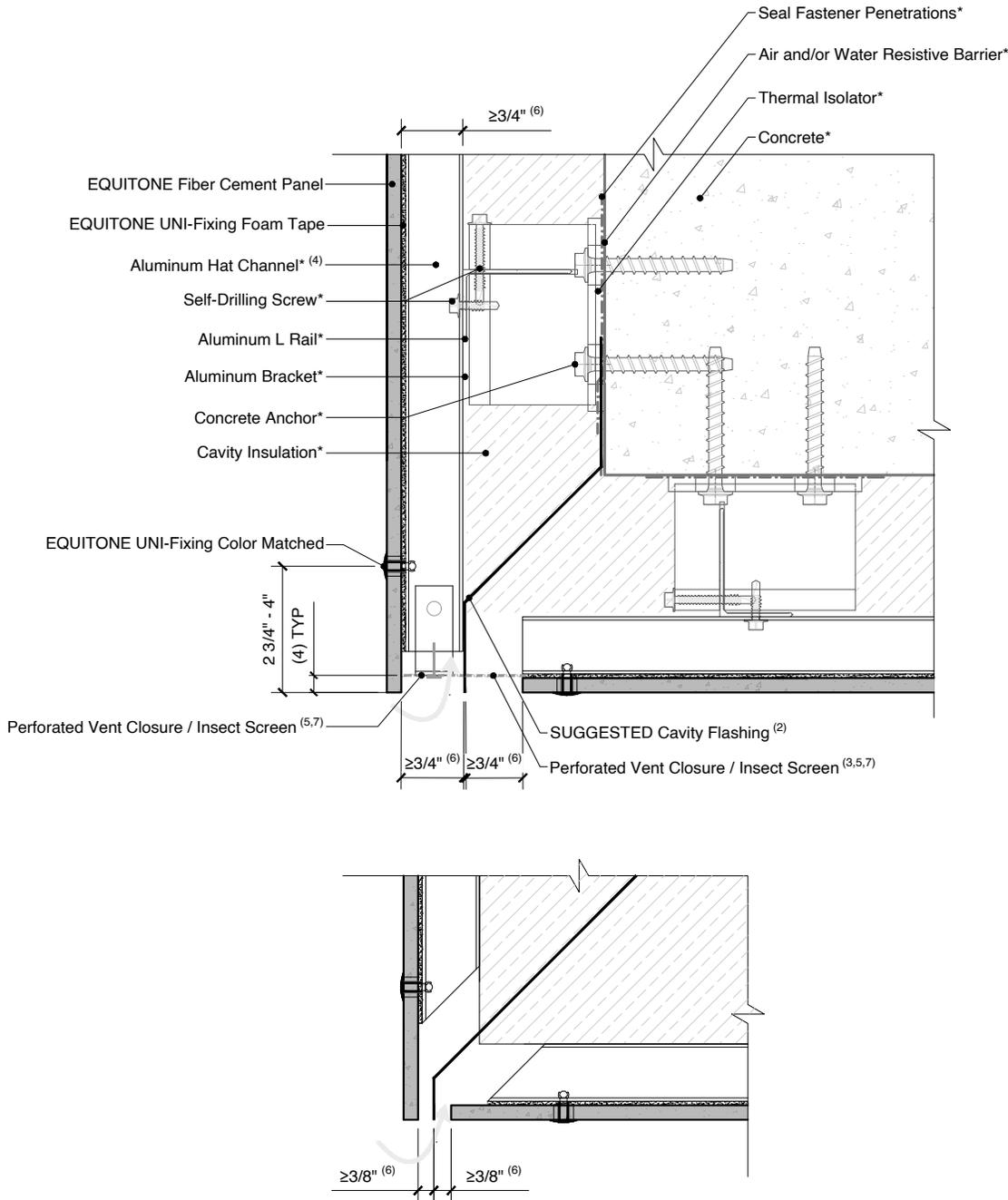
1. Inlet/outlet, air cavity, and closure perforation sizing will vary, from those expressed herein, depending upon the distance between inlet/outlet or local legislation. Visit the Planning and Application Guide - Face Fixing to Metal for additional information.
2. (*) symbol represents materials not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



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INSIDE CORNER
DETAIL

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

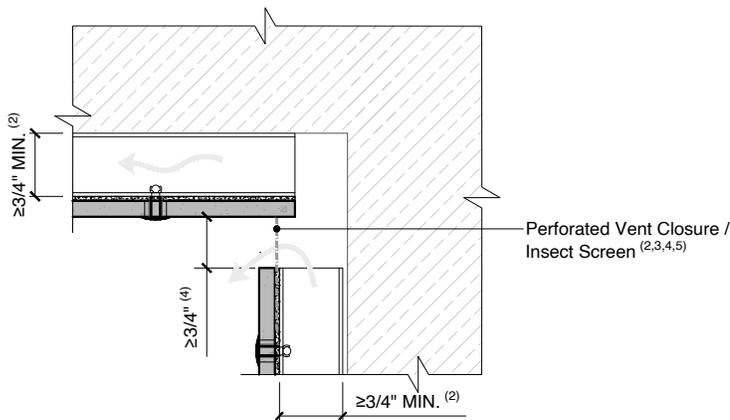
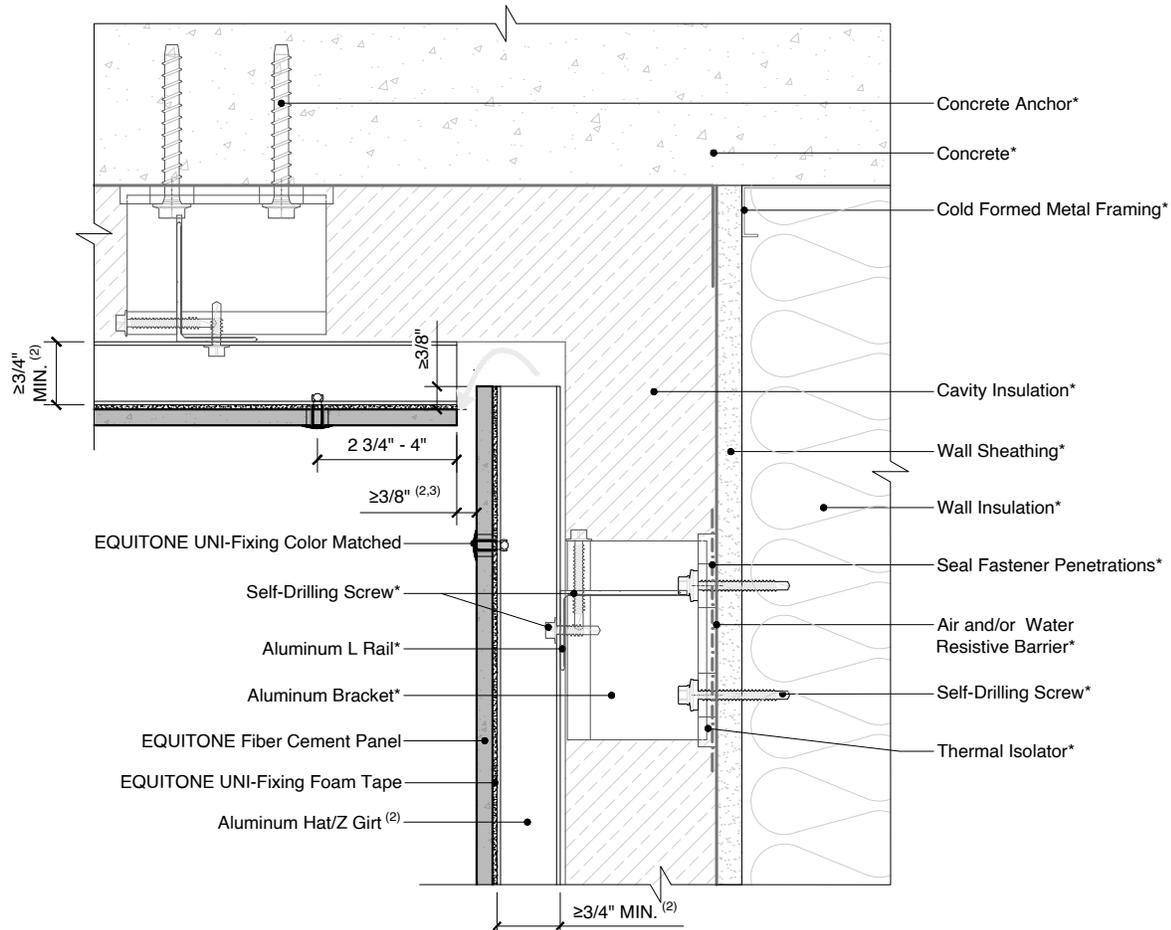
1. For soffit conditions, rivet spacing should be limited to 16 inch on center and should be confirmed through project engineering.
2. The following could also be detailed without a through wall flashing, but it may increase the risk of water marks and efflorescence on the face of the soffit panel material. At minimum, EQUITONE's ventilation guidelines must be followed.
3. Flashing used to close the joints may not be thicker than 1/32 inch (23 gauge), including the thickness of any fastener heads.
4. The facade panel should preferably overhang more than 3/8 inch below ventilation profile to create a drip edge.
5. All closures, trims, screens, etc. should be held off the back of the panel by at least 1/16 inch.
6. 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.
7. 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.
8. Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous.
9. (*) symbol represents materials not supplied by EQUITONE.



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SOFFIT / CEILING
 WALL JUNCTION -
 OUTSIDE EDGE

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

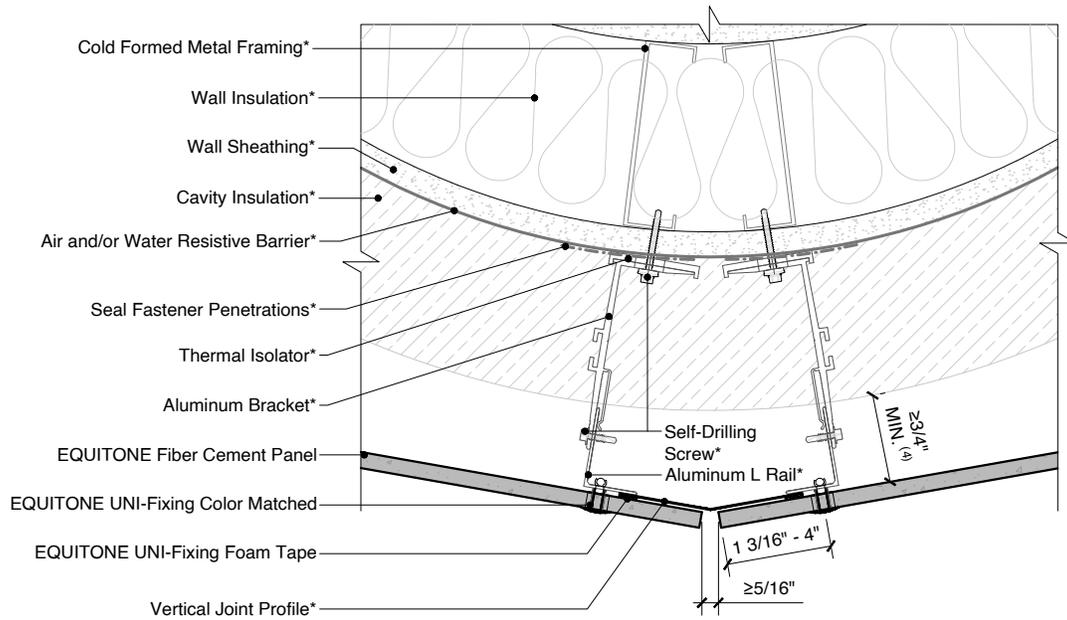
1. For soffit conditions, rivet spacing should be limited to 16 inch on center and should be confirmed through project engineering.
2. Flashing used to close the joints may not be thicker than 1/32 inch (23 gauge), including the thickness of any fastener heads.
3. All closures, trims, screens, etc. should be held off the back of the panel by at least 1/16 inch.
4. Inlet/outlet, air cavity, and closure perforation sizing 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.
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. (*) symbol represents materials not supplied by EQUITONE.



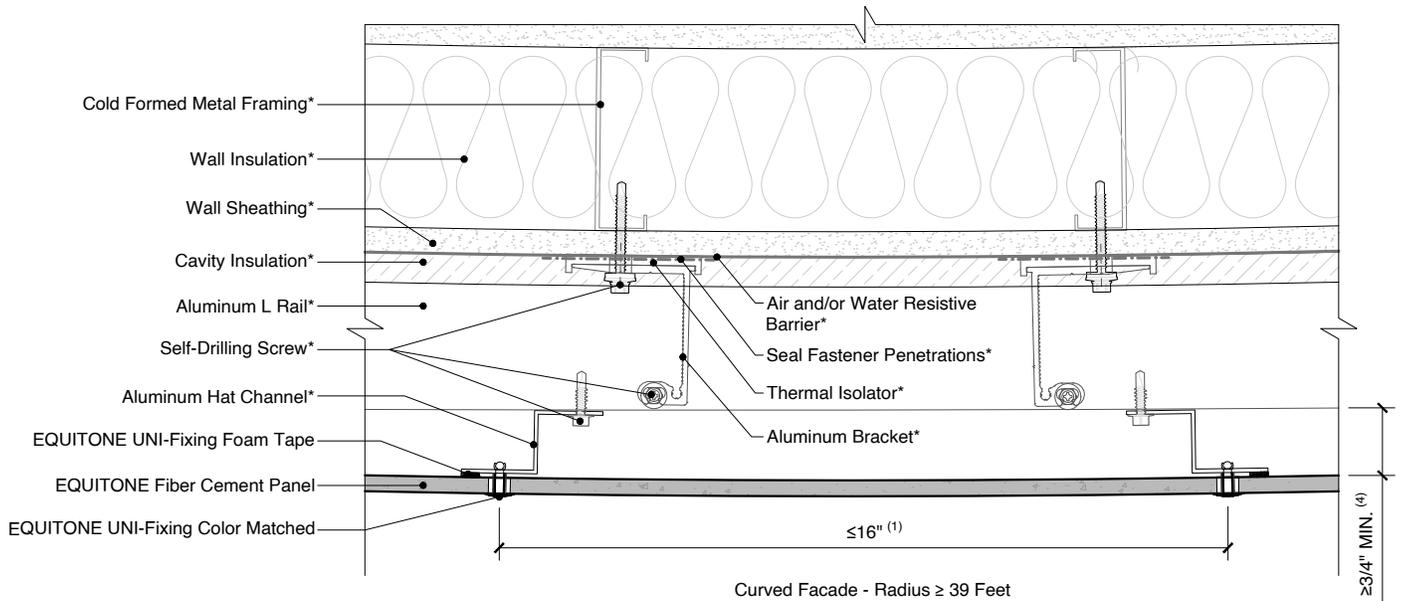
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**SOFFIT / CEILING
 WALL JUNCTION -
 INSIDE EDGE**

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



Segmented Facade - Radius < 39 Feet



Curved Facade - Radius \geq 39 Feet

NOTES:

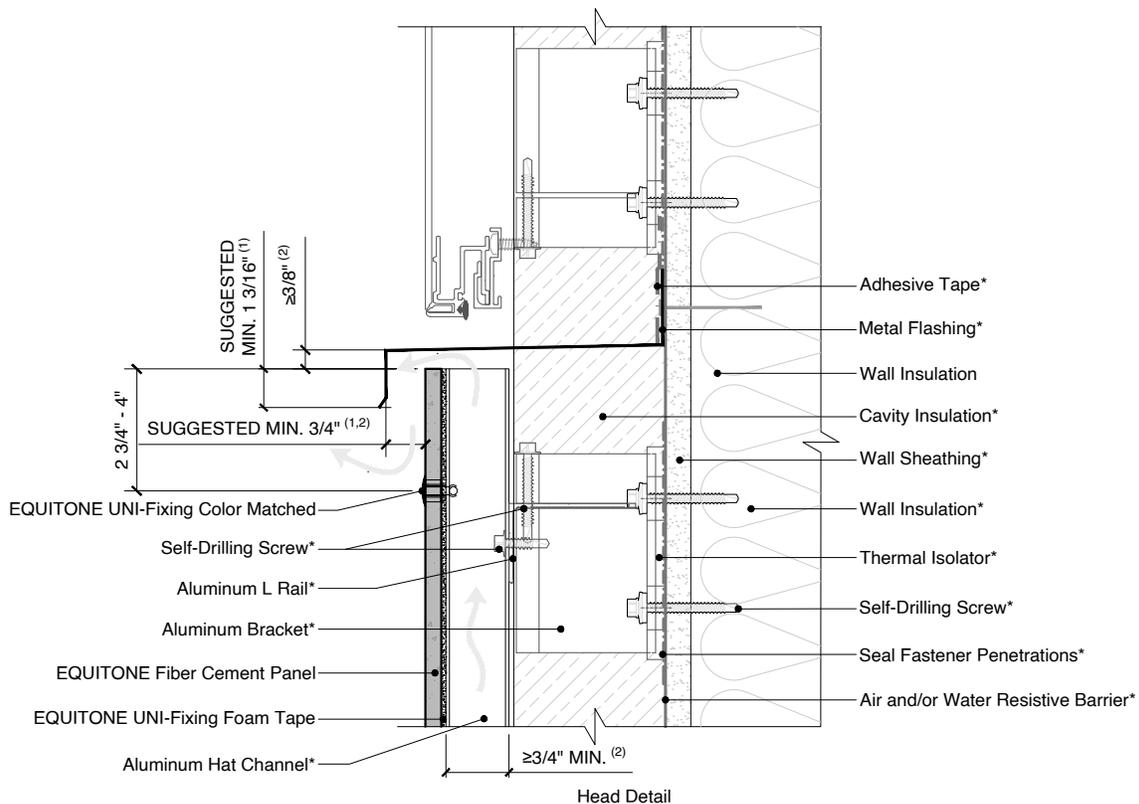
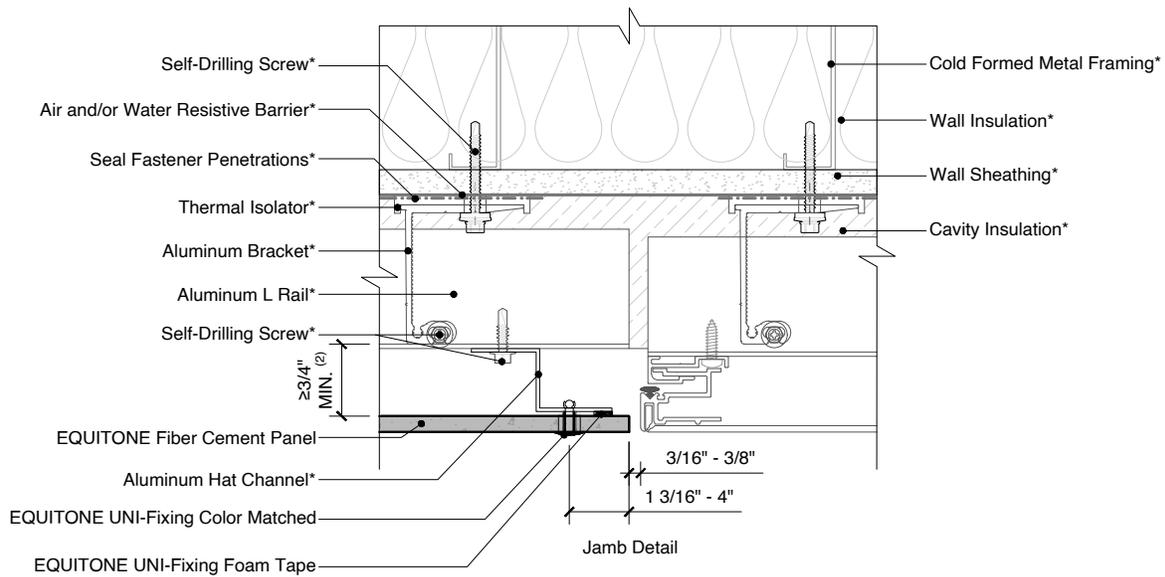
1. The minimum an EQUITONE panel can be curved is 39ft with framing centers reduced to a maximum of 16 inch. Confirm with subframe supplier if the intended system can achieve design radius.
2. For smaller radii the facade should be executed as segmented facade.
3. Flashing used to close the joints may not be thicker as 1/32 in (23 gauge), including the thickness of any fastener heads.
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. (*) symbol represents materials not supplied by EQUITONE.



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CURVED FACADE DETAILS

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

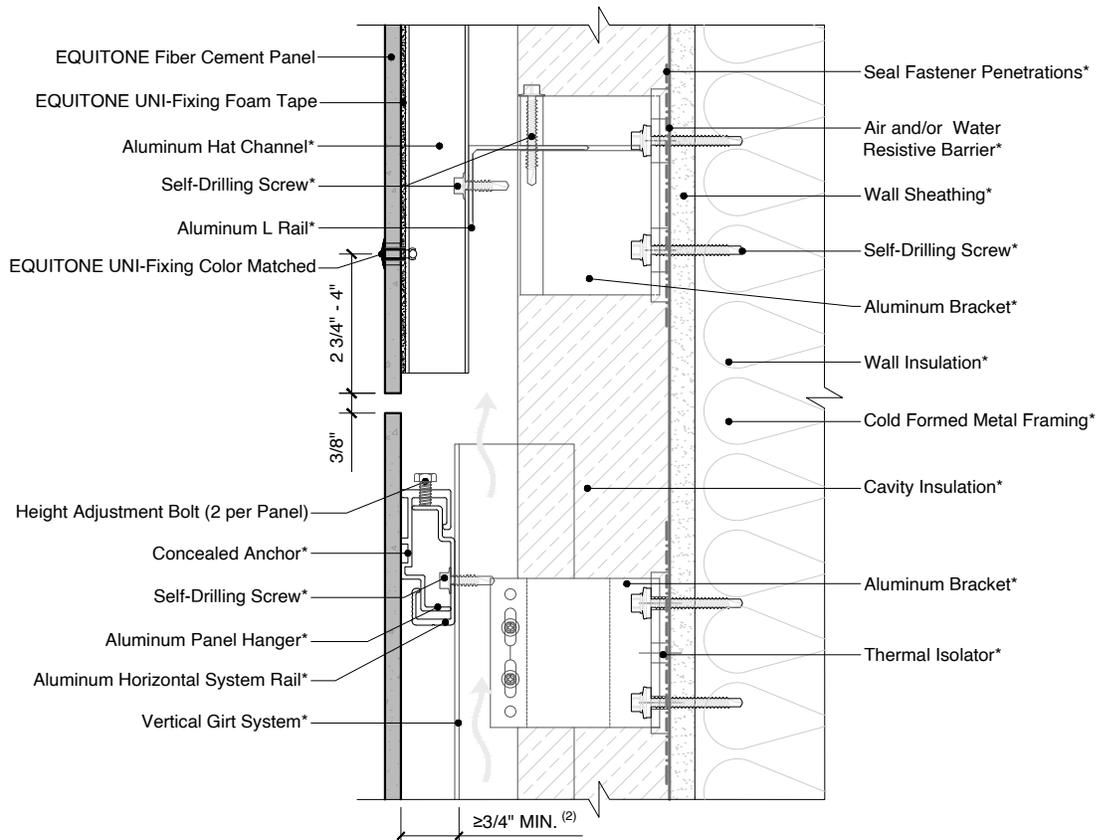
1. A smaller overlap is possible, but it may increase the risk of water marks and panel staining caused by runoff. Smaller capping is also more prone to wind driven rain entering the cavity.
2. A smaller overlap or offset is possible, but it may increase the risk of water marks and panel staining caused by runoff. Smaller capping is also more prone to wind driven rain entering the cavity. At minimum, EQUITONE's ventilation guidelines must be followed.
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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JUNCTION WITH
 OTHER FACADE
 MATERIAL DETAILS

EQUITONE EXPOSED FASTENER USING ALUMINUM CLIP AND RAIL 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.

The information in this document is correct at the time of issuing. However, due to our committed program of continuous material and system development, we reserve the right to amend or alter the information contained in this document without prior notice. Please visit www.equitone.com to ensure you have the most current version.

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