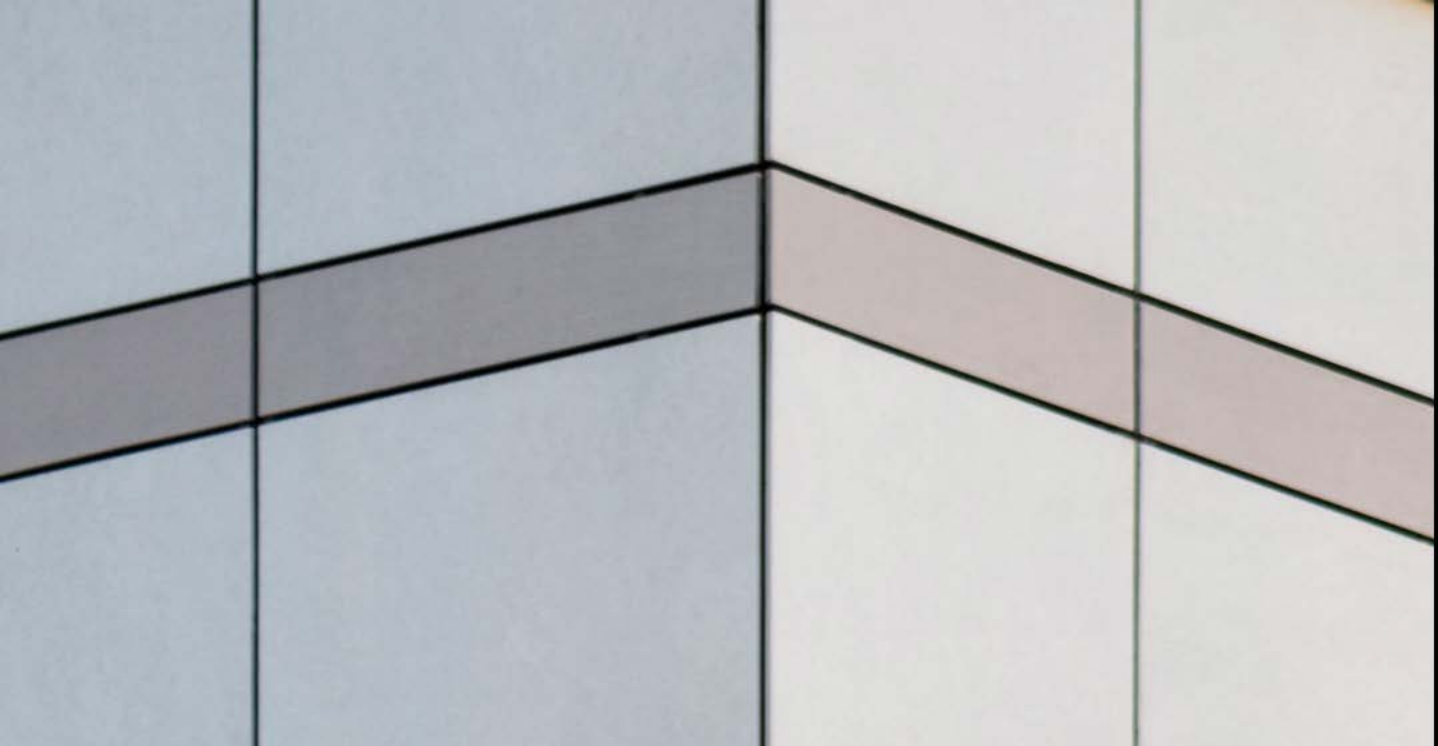
Concealed fixing solution TUF-S

Secure and easy attachment of fibre cement panels

EQUITONE
Fibre cement facade materials



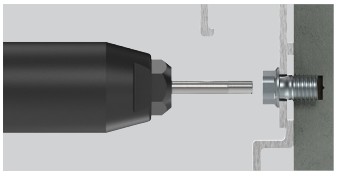
Concealed solution and quick to install TUF-S

50% less installation time
The TUF-S blind fastener from SFS is superior to previous approaches to the attachment of fibre cement cladding panels with regards to installation and long-term security.

Installation is performed quickly and securely by one person, without the use of special tools. Installation time is also reduced by up to 50% when compared to conventional blind attachments. The TUF-S blind fastener can be removed if required.

Easy
- No complex undercut hole required – simple standard hole sufficient
- No special tools to install required
- Holes can even be drilled on site
- Quick and easy installation with the battery riveting tool from GESIPA® (e.g. PowerBird® Pro)

Secure
- No overtorquing of the TUF-S
- High pullout values with the installed thread
- No unwinding
- Removable possible via hex head

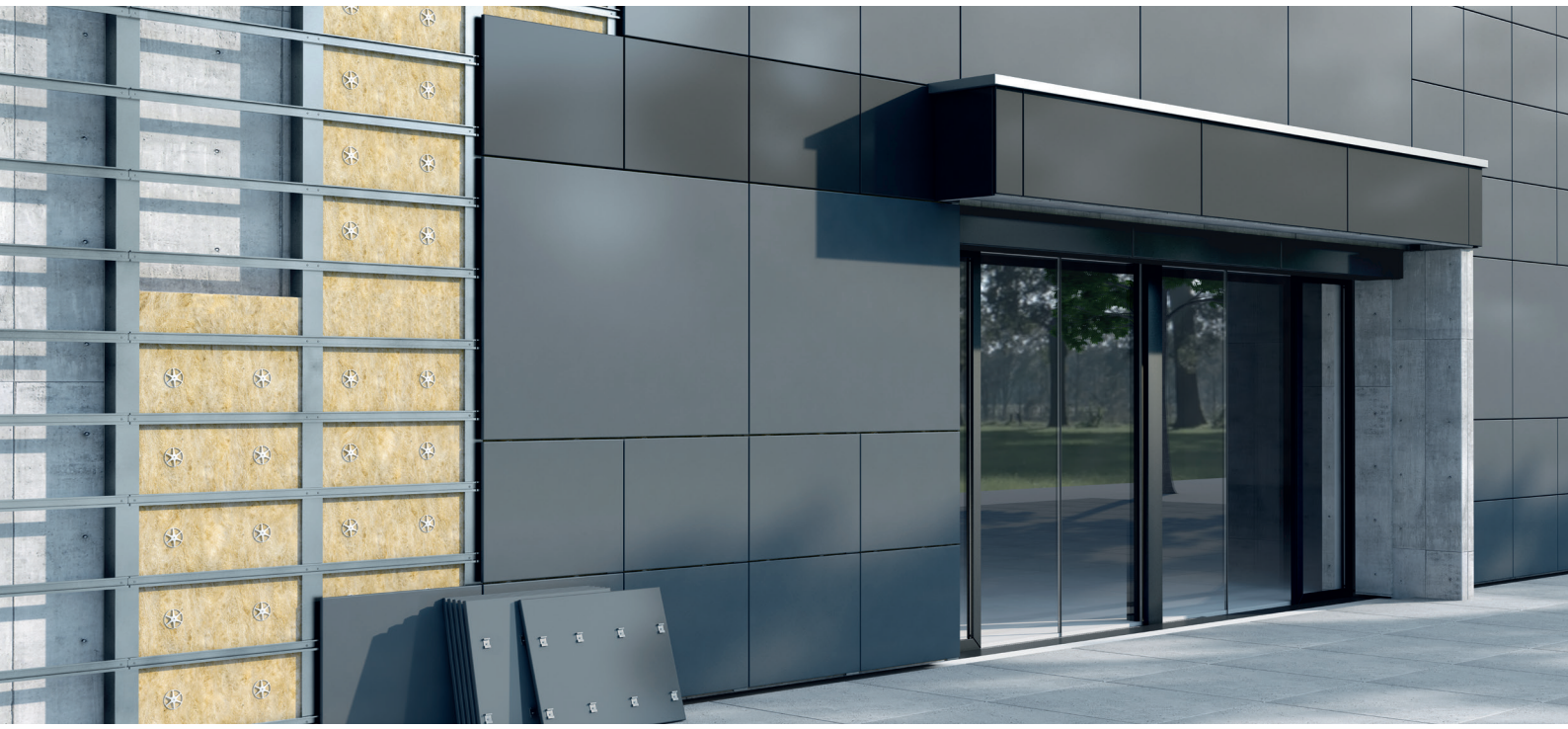


1. Pre-drill using a Ø 6 mm VHM blind-hole drill with depth-stop

2. Position the pre-drilled hanger over the hole in the panel and push through the TUF-S blind fastener

3. Remove the mandrel using a GESIPA® battery riveting tool combined with nose piece 17/36 or 17/40

Designed for use with fibre cement panels



Optimum security
In addition to an easy and timesaving installation, the TUF-S is a secure solution. The fastener cannot be overdriven during installation. Due to its radial expansion when the mandrel is removed, the partially cut thread becomes wedged in the panel material, generating very high pullout values.

Spontaneous slackening due to expansion or vibration is not possible. The sleeve is made of austenitic stainless steel (material DIN 1.4401, grade A4).

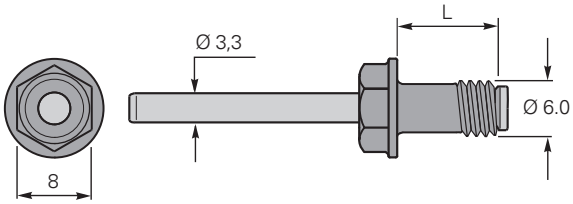
	Panel thickness [mm]	Drill depth [mm]	Nvelope hanger [mm]	**TUF-S**	Drill bit
Linea	8	5.0	3.5	TUF-S-6x8,5-A4	VHM-6,0x40
	8	5.5	3.5	TUF-S-6x9-A4	VHM-6,0x40,5
Materia	8	5.5	3.5	TUF-S-6x9-A4	VHM-6,0x40,5
	12	8.5	3.5	TUF-S-6x12-A4	VHM-6,0x43,5
Natura	8	5.5	3.5	TUF-S-6x9-A4	VHM-6,0x40,5
	12	8.5	3.5	TUF-S-6x12-A4	VHM-6,0x43,5
Pictura	8	5.5	3.5	TUF-S-6x9-A4	VHM-6,0x40,5
	12	8.5	3.5	TUF-S-6x12-A4	VHM-6,0x43,5
Tectiva	8	5.0	3.5	TUF-S-6x8,5-A4	VHM-6,0x40
	8	5.5	3.5	TUF-S-6x9-A4	VHM-6,0x40,5

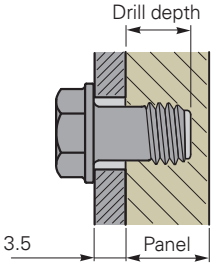
Use the drill bits with the SFS depth locator universal

Depth locator universal with Ø 6 mm VHM drill bit

Screw gun

Scan and watch video!

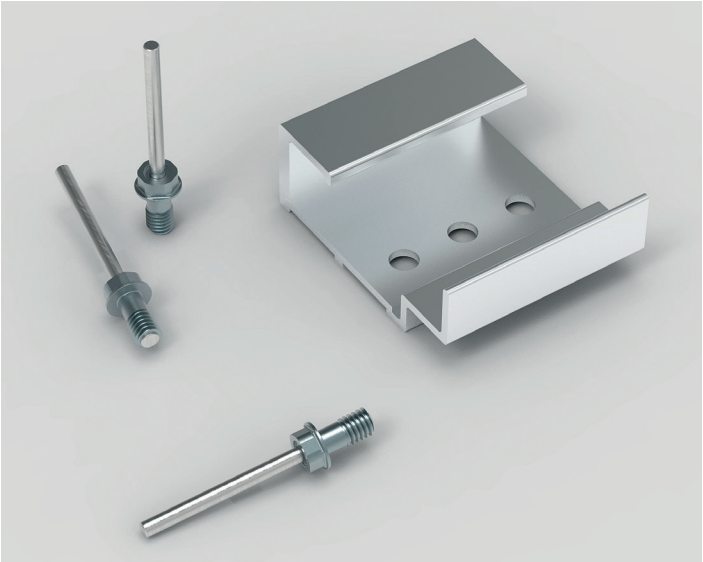




NV3 Hanger

GESIPA® battery riveting tool

Adjusted NV3 hanger for TUF-S



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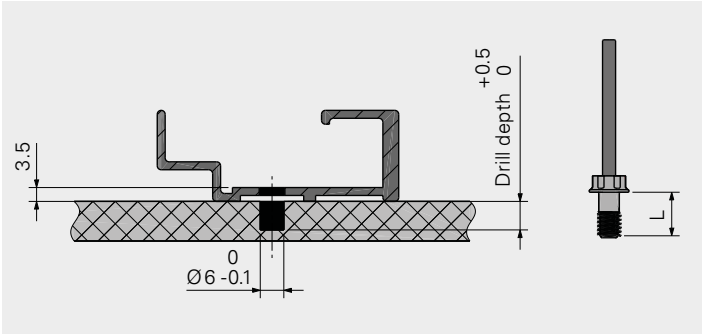
TUF-S

EQUITONE
Fibre cement facade materials

1. Pre-drill the panel

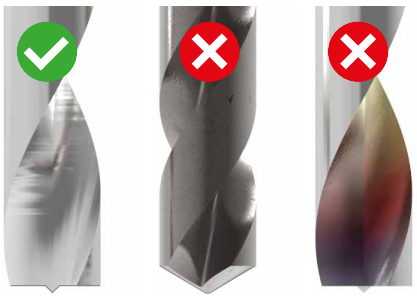
Pre-drill a Ø 6.0 mm blind-hole using a milling cutter or a SFS drill bit combined with the SFS depth locator universal



The geometry of the drill hole shall be checked minimum on 1% of all drillings. **Nominal measure: Ø 5.9 – 6.0 mm**
(Can be measured with a vernier caliper)

For CNC milling, a milling cutter Ø 6.0 mm with tolerance h6 is recommended

1.1 **1.2** **1.3**

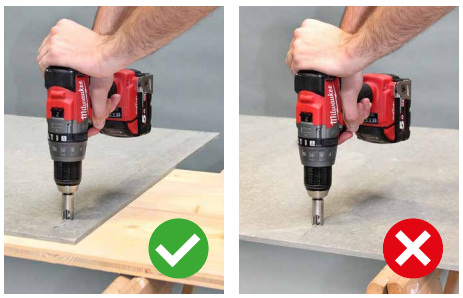


1.1
Use a blind-hole drill bit

1.2
Do not use a drill bit with a point angle

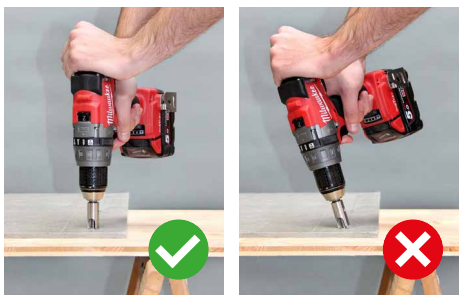
1.3
Do not use a worn-out drill bit

1.4



1.4
Panel must lie on a hard surface and be fully supported

1.5



1.5
Keep a right angle during the drill process

	Panel thickness [mm]	Drill depth [mm]	Nvelope hanger [mm]	**TUF-S**	Drill bit
Linea	8	5.0	3.5	TUF-S-6x8,5-A4	VHM-6,0x40
	8	5.5	3.5	TUF-S-6x9-A4	VHM-6,0x40,5
Materia	8	5.5	3.5	TUF-S-6x9-A4	VHM-6,0x40,5
	12	8.5	3.5	TUF-S-6x12-A4	VHM-6,0x43,5
Natura	8	5.5	3.5	TUF-S-6x9-A4	VHM-6,0x40,5
	12	8.5	3.5	TUF-S-6x12-A4	VHM-6,0x43,5
Pictura	8	5.5	3.5	TUF-S-6x9-A4	VHM-6,0x40,5
	12	8.5	3.5	TUF-S-6x12-A4	VHM-6,0x43,5
Tectiva	8	5.0	3.5	TUF-S-6x8,5-A4	VHM-6,0x40
	8	5.5	3.5	TUF-S-6x9-A4	VHM-6,0x40,5

Use the drill bits with the SFS depth locator universal

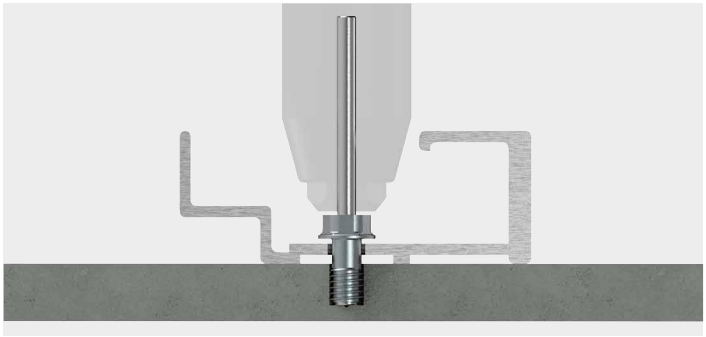
Life expectancy for SFS VHM drill bits: approx. 500 drills

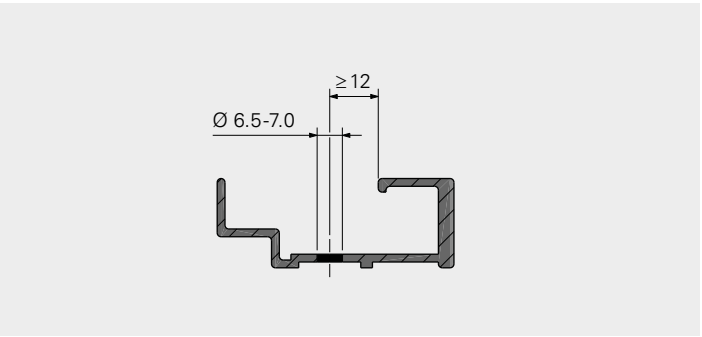
1.6

1.6
Remove debris from drill hole

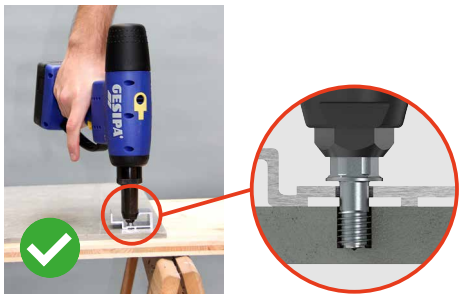
2. Position the hanger

Position the pre-drilled hanger over the hole in the panel and push through the TUF-S



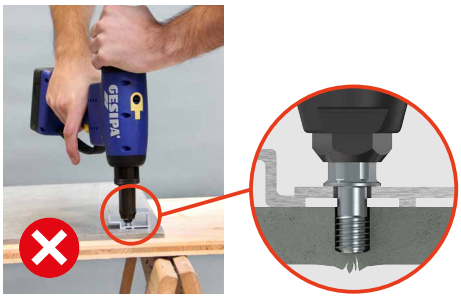


2.2



2.2
Before setting there can be a small gap between the TUF-S head and hanger

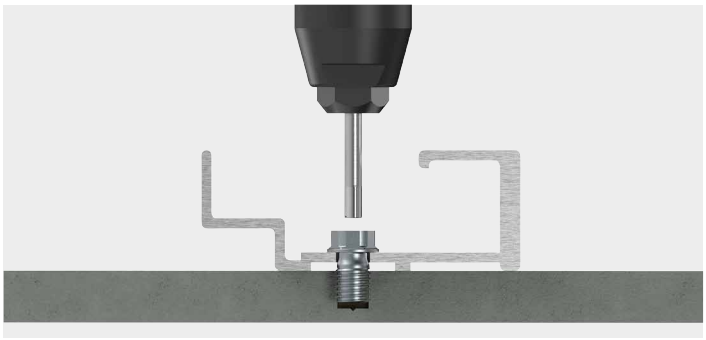
2.3

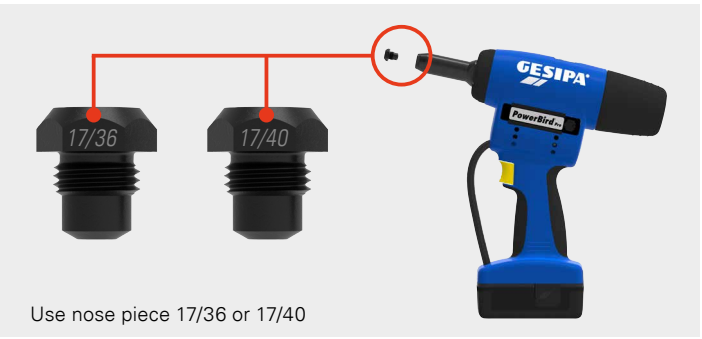


2.3
Do not apply force to the TUF-S before setting as this may cause damage to the panel face

3. Remove mandrel

Remove the mandrel using a battery riveting tool from GESIPA®
(e.g. PowerBird® Pro)



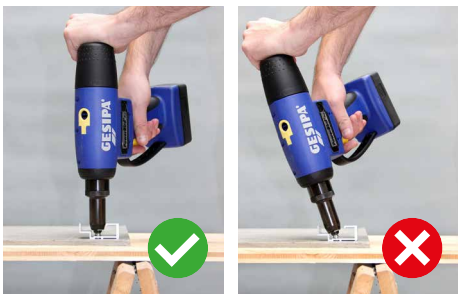


Use nose piece 17/36 or 17/40

3.1

3.1
Panel must lie on a hard surface and be fully supported

3.2



3.2
Keep a right angle during the setting process

Apply positive pressure to the GESIPA® battery riveting tool towards the panel during mandrel removal

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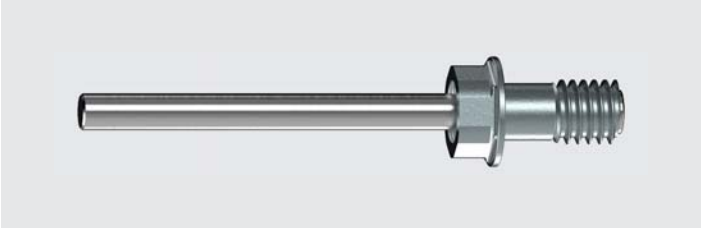
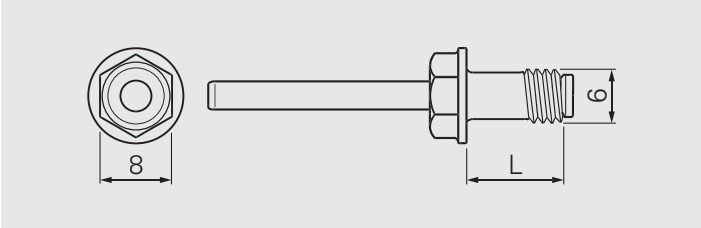
TUF-S-6xL

Eternit Equitone Linea



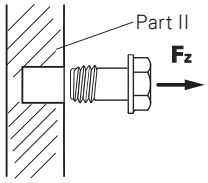


Specification TUF-S
Mandrel: Carbon steel zinced
Sleeve: Stainless steel A4, Material number 1.4401, AISI 316

Predrilling instructions
Ø panel = 6 mm to create with special SFS drill bit
Ø bracket = 6.5 - 7.0 mm
TUF-S-6x**L** = Embedment + Bracket

Pull-out load F_z

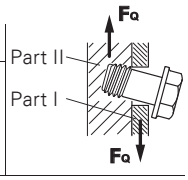
Part II (blind side)					Test results (N)	
Material	t_{II}	Embedment	TUF-S per bracket	TUF-S distance	$F_{z,avg}$	s
Equitone Linea	8 mm	5 mm	2x	20 mm	1079	36
	8 mm	5 mm	2x	30 mm	1252	92
	8 mm	5.5 mm	2x	20 mm	1216	70
	8 mm	5.5 mm	2x	40 mm	1258	112



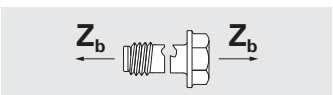
Remarks: Support ring-Ø 135 mm

Shear load F_Q

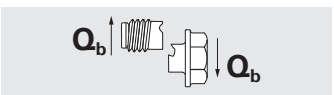
Part II (blind side)			Part I (setting side)				Test results (N)		
Material	t_{II}	Embedment	Grade	t_I	L	TUF-S per bracket	TUF-S distance	$F_{Q,avg}$	s
Equitone Linea	8 mm	5 mm	AlMg3	4 mm	9 mm	2x	20 mm	4900	290
	8 mm	5.5 mm	AlMg3	3.5 mm	9 mm	2x	20 mm	5201	293



Remarks: $F_{Q,avg}$ is measured after a bracket displacement of max 3 mm



Tensile breaking load Z_b (N)
$Z_b \geq 8{,}780$ N



Shear breaking load Q_b (N)
$Q_b \geq 6{,}530$ N

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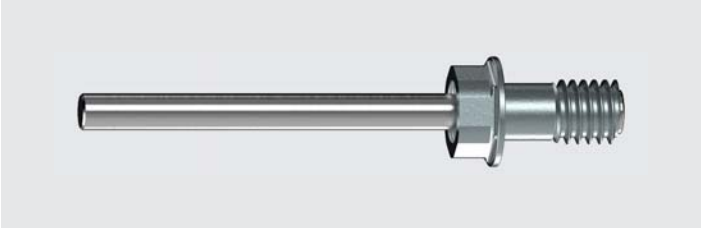
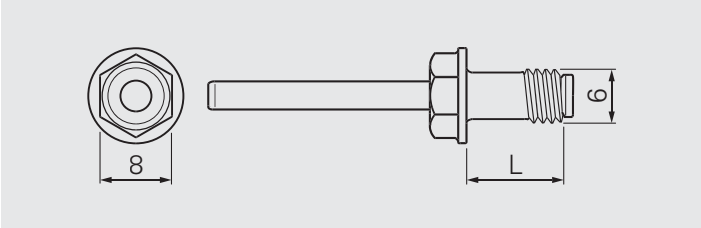
TUF-S-6xL

Eternit Equitone Materia





Specification TUF-S
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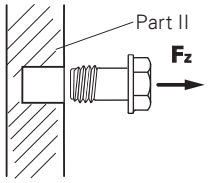
Sleeve: Stainless steel A4, Material number 1.4401, AISI 316

Predrilling instructions
Ø panel = 6 mm to create with special SFS drill bit
Ø bracket = 6.5 - 7.0 mm
TUF-S-6x**L** = Embedment + Bracket

Pull-out load F_z

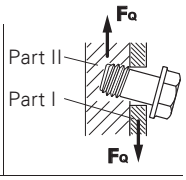
Part II (blind side)					Test results (N)	
Material	t_{II}	Embedment	TUF-S per bracket	TUF-S distance	$F_{z,avg}$	s
Equitone Materia	8 mm	5.5 mm	2x	20 mm	1112	36
	8 mm	5.5 mm	2x	40 mm	1232	64



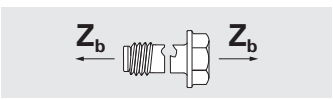
Remarks: Support ring-Ø 135 mm

Shear load F_Q

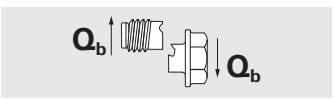
Part II (blind side)			Part I (setting side)					Test results (N)	
Material	t_{II}	Embedment	Grade	t_I	L	TUF-S per bracket	TUF-S distance	$F_{Q,avg}$	s
Equitone Materia	8 mm	5.5 mm	AlMgSi1	3.5 mm	9 mm	2x	20 mm	4183	487



Remarks: $F_{Q,avg}$ is measured after a bracket displacement of max 3 mm



Tensile breaking load Z_b (N)
$Z_b \geq 8{,}780$ N



Shear breaking load Q_b (N)
$Q_b \geq 6{,}530$ N

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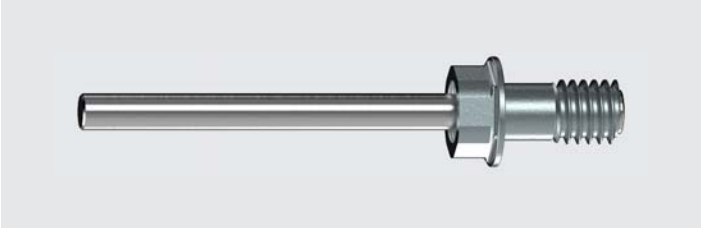
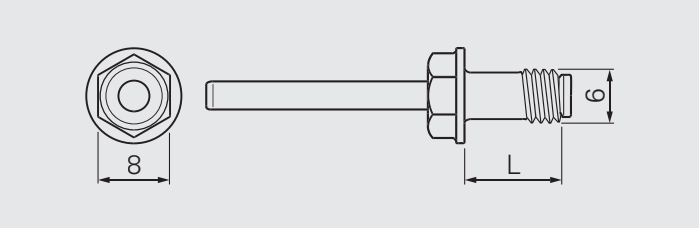
TUF-S-6xL

Eternit Equitone Natura





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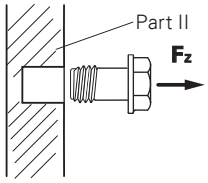
Pull-out load F_z

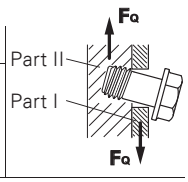
Part II (blind side)					Test results (N)	
Material	t_{II}	Embedment	TUF-S per bracket	TUF-S distance	$F_{z,avg}$	s
Equitone Natura	8 mm	5.5 mm	2x	20 mm	1085	84
	12 mm	8.5 mm	1x	–	1548	64
	12 mm	8.5 mm	2x	20 mm	2138	145



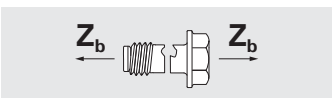
Remarks: Support ring-Ø 135 mm

Shear load F_Q

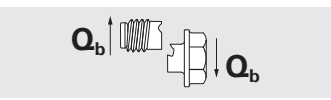
Part II (blind side)			Part I (setting side)					Test results (N)	
Material	t_{II}	Embedment	Grade	t_I	L	TUF-S per bracket	TUF-S distance	$F_{Q,avg}$	s
Equitone Natura	8 mm	5.5 mm	AlMg3	3.5 mm	9 mm	2x	20 mm	4505	255
	12 mm	8.5 mm	AlMg3	2.5 mm	11 mm	1x	–	3990	79
	12 mm	8.5 mm	AlMg3	2.5 mm	11 mm	2x	20 mm	4462	259



Remarks: $F_{Q,avg}$ is measured after a bracket displacement of max 3 mm



Tensile breaking load Z_b (N)
$Z_b \geq 8{,}780$ N



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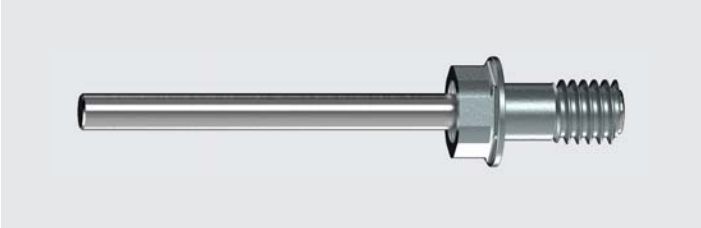
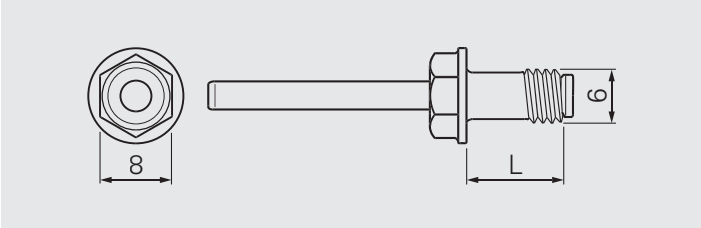
TUF-S-6xL

Eternit Equitone Pictura



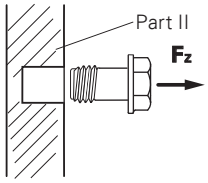


Specification TUF-S
Mandrel: Carbon steel zinced
Sleeve: Stainless steel A4, Material number 1.4401, AISI 316

Predrilling instructions
Ø panel = 6 mm to create with special SFS drill bit
Ø bracket = 6.5 - 7.0 mm
TUF-S-6x**L** = Embedment + Bracket

Pull-out load F_z

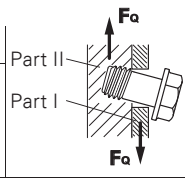
Part II (blind side)					Test results (N)	
Material	t_{II}	Embedment	TUF-S per bracket	TUF-S distance	$F_{z,avg}$	s
Equitone Pictura	8 mm	5.5 mm	2x	20 mm	1077	84
	12 mm	8.5 mm	1x	–	1548	64
	12 mm	8.5 mm	2x	20 mm	2138	145



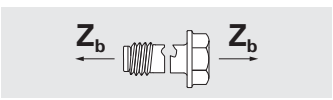
Remarks: Support ring-Ø 135 mm

Shear load F_Q

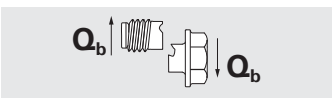
Part II (blind side)			Part I (setting side)					Test results (N)	
Material	t_{II}	Embedment	Grade	t_I	L	TUF-S per bracket	TUF-S distance	$F_{Q,avg}$	s
Equitone Pictura	8 mm	5.5 mm	AlMg3	3.5 mm	9 mm	20 mm	2x	4102	167
	12 mm	8.5 mm	AlMg3	2.5 mm	11 mm	–	1x	3990	79
	12 mm	8.5 mm	AlMg3	2.5 mm	11 mm	20 mm	2x	4462	259



Remarks: $F_{Q,avg}$ is measured after a bracket displacement of max 3 mm



Tensile breaking load Z_b (N)
$Z_b \geq 8{,}780$ N



Shear breaking load Q_b (N)
$Q_b \geq 6{,}530$ N

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construction@sfsintec.biz
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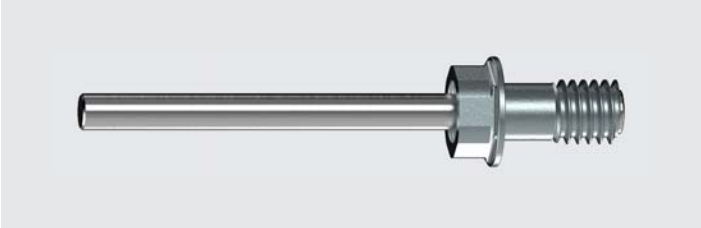
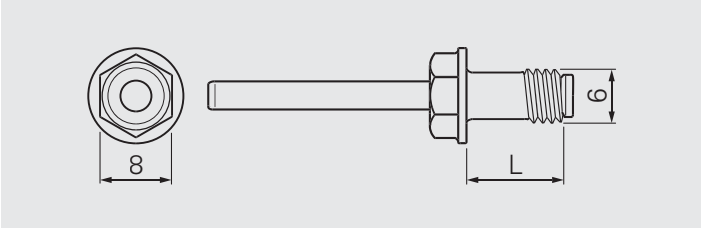
TUF-S-6xL

Eternit Equitone Tectiva



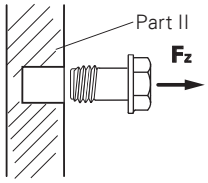


Specification TUF-S
Mandrel: Carbon steel zinced
Sleeve: Stainless steel A4, Material number 1.4401, AISI 316

Predrilling instructions
Ø panel = 6 mm to create with special SFS drill bit
Ø bracket = 6.5 - 7.0 mm
TUF-S-6x**L** = Embedment + Bracket

Pull-out load F_z

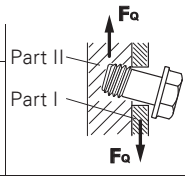
Part II (blind side)					Test results (N)	
Material	t_{II}	Embedment	TUF-S per bracket	TUF-S distance	$F_{z,avg}$	s
Equitone Tectiva	8 mm	5 mm	2x	20 mm	1159	106
	8 mm	5 mm	2x	30 mm	1296	94
	8 mm	5.5 mm	2x	20 mm	1414	59
	8 mm	5.5 mm	2x	40 mm	1612	189



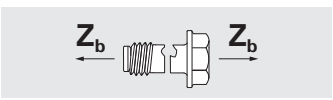
Remarks: Support ring-Ø 135 mm

Shear load F_Q

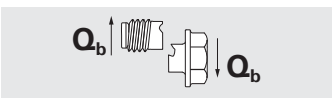
Part II (blind side)			Part I (setting side)			TUF-S	TUF-S	Test results (N)	
Material	t_{II}	Embedment	Grade	t_I	L	per bracket	distance	$F_{Q,avg}$	s
Equitone Tectiva	8 mm	5 mm	AlMg3	4 mm	9 mm	2x	20 mm	4600	250
	8 mm	5.5 mm	AlMg3	3.5 mm	9 mm	2x	20 mm	4923	249



Remarks: $F_{Q,avg}$ is measured after a bracket displacement of max 3 mm



Tensile breaking load Z_b (N)
$Z_b \geq 8{,}780$ N



Shear breaking load Q_b (N)
$Q_b \geq 6{,}530$ N

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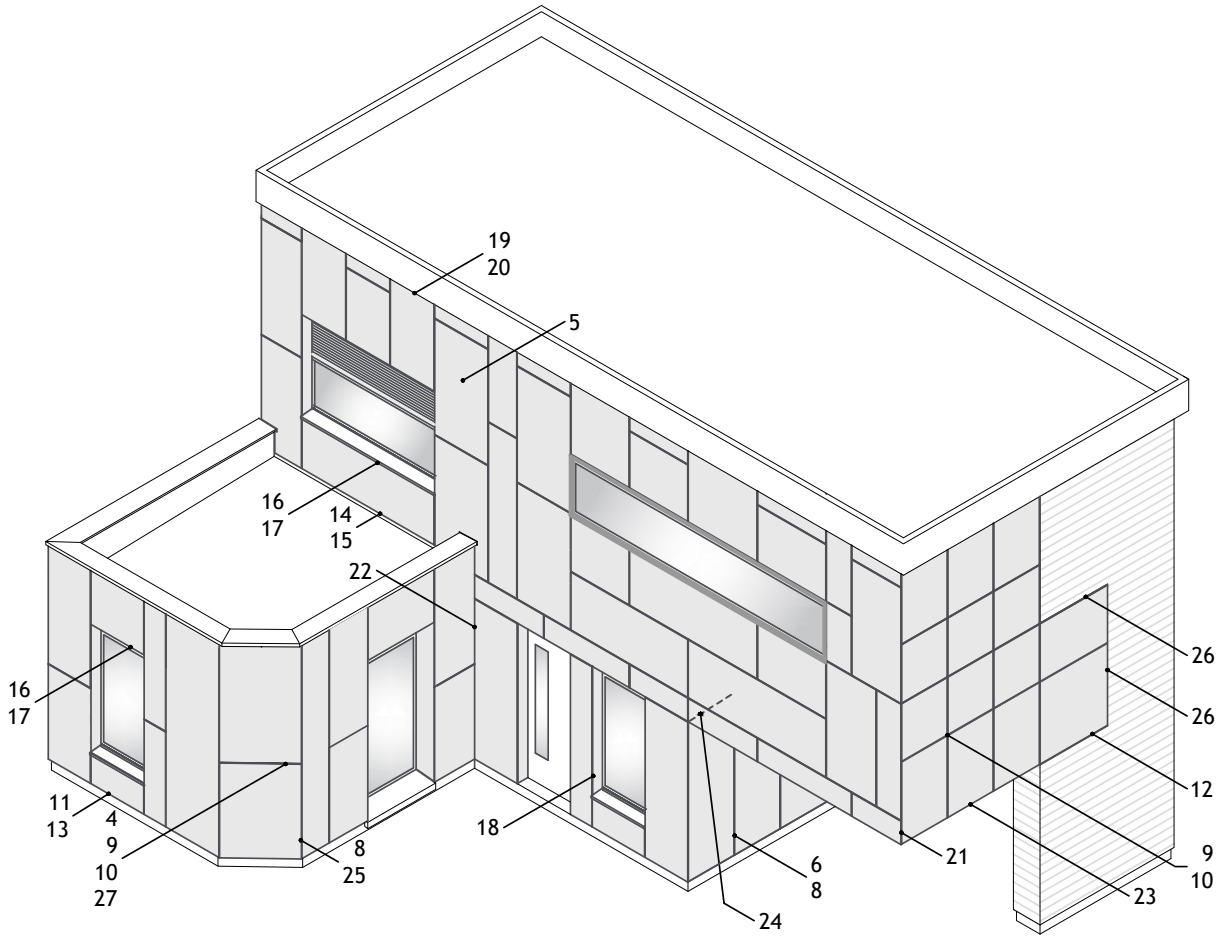
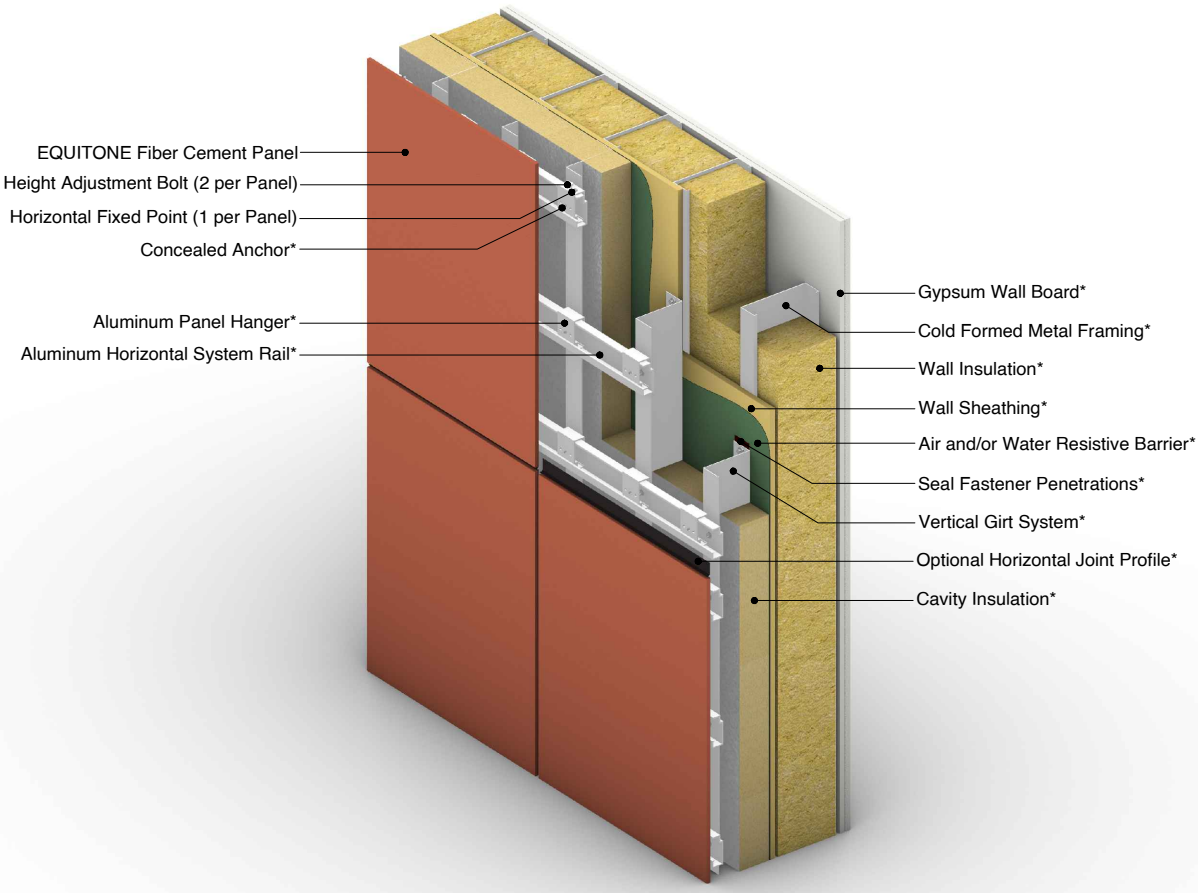
EQUITONE Concealed Fastener Using Vertical Girt Systems on Steel Stud Construction Details



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

EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION

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

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RELEASE: 202411

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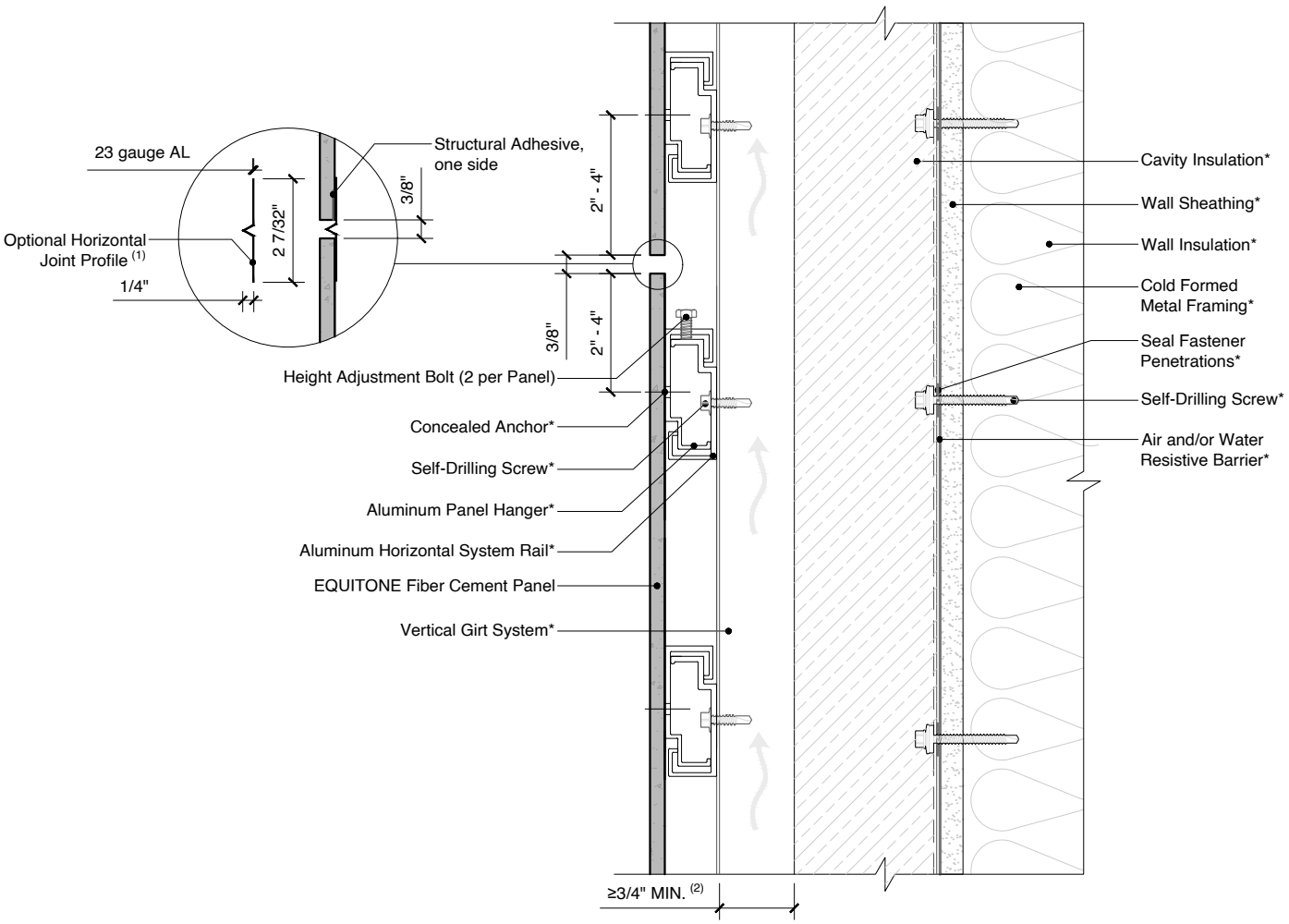
3D ASSEMBLY DETAIL

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

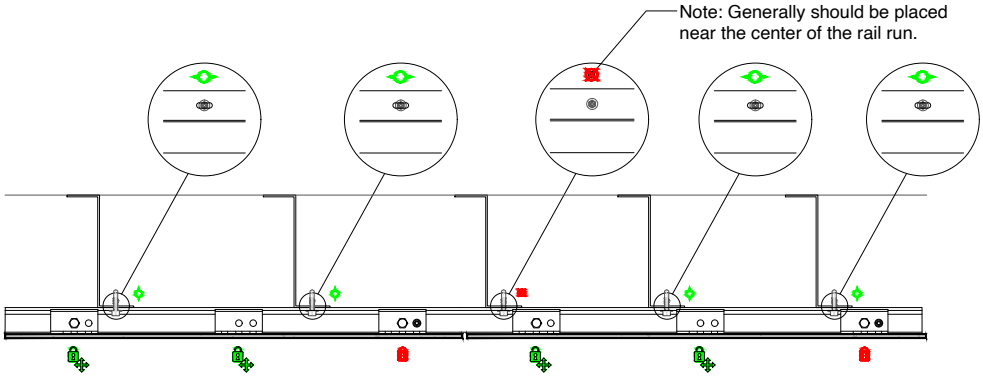
EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION

Concealed System Fixed Point

Subframing Fixed Point

Concealed System Sliding Point

Subframing Sliding Point



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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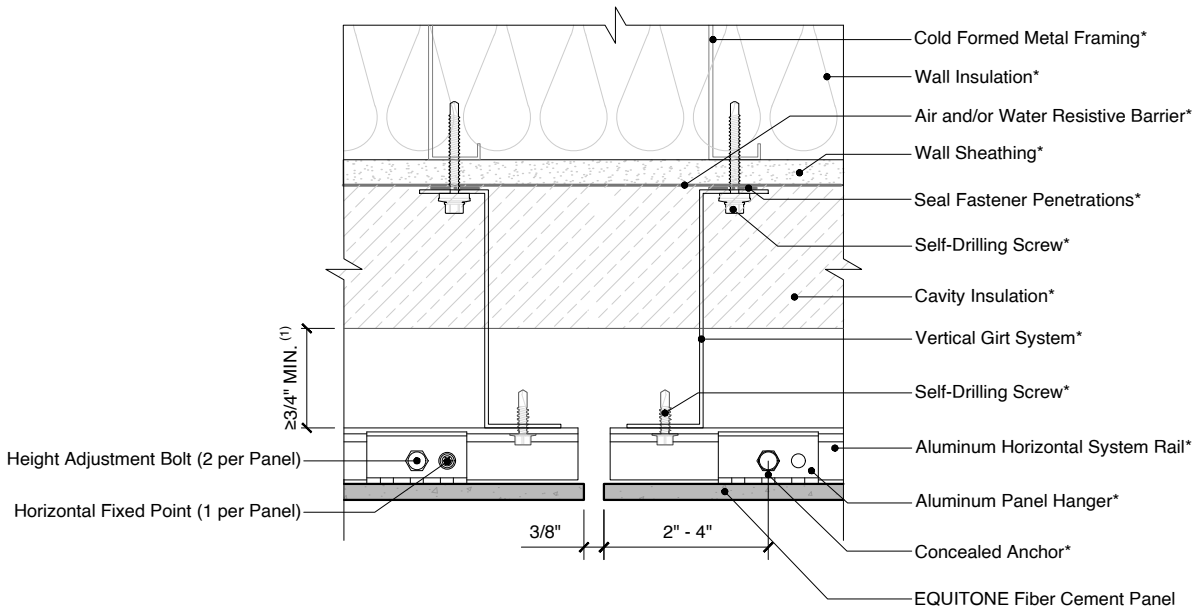
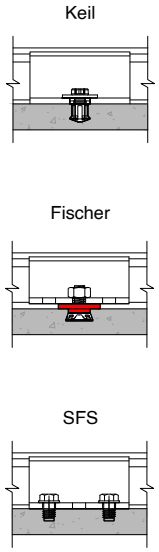
RELATION BETWEEN SUB-FRAMING AND PANEL EXPANSION POINTS

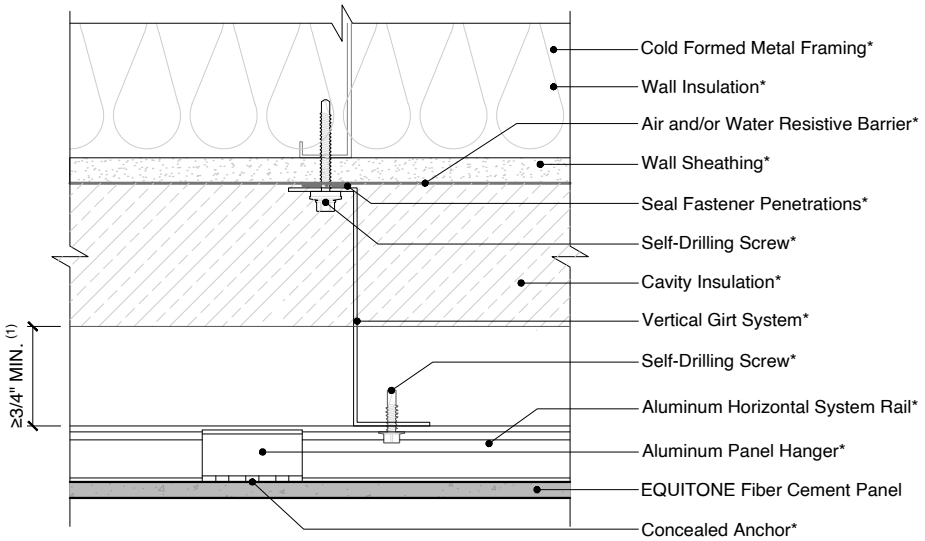
EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



Vertical Joint Profile

Position of Concealed Anchor*s in the Panel Hanger:





Intermediate Profile

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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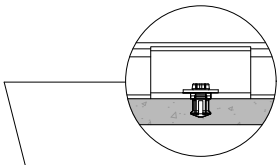
VERTICAL PROFILE DETAILS

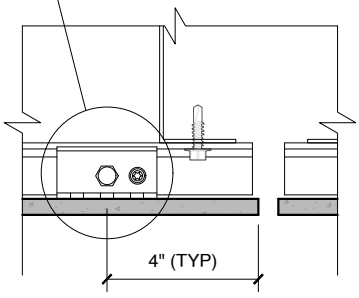
EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION

Concealed Anchor Edge Distance Requirements

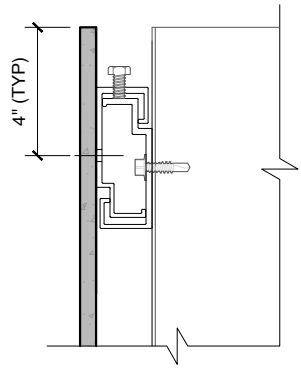
Keil



Position of Concealed Anchor in the Panel Hanger

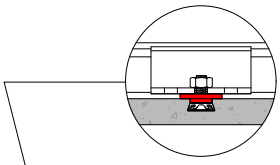


Vertical Joint Edge Distance

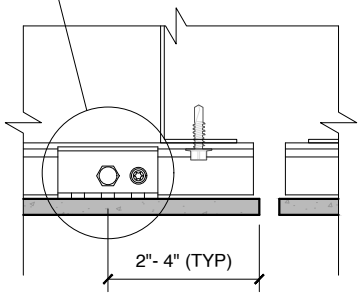


Horizontal Joint Edge Distance

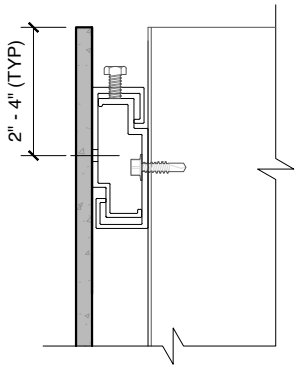
Fischer



Position of Concealed Anchor in the Panel Hanger

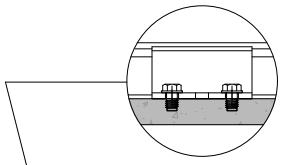


Vertical Joint Edge Distance

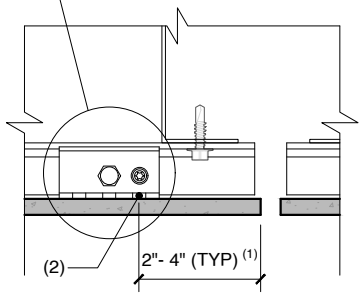


Horizontal Joint Edge Distance

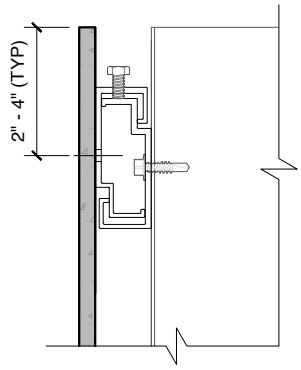
SFS



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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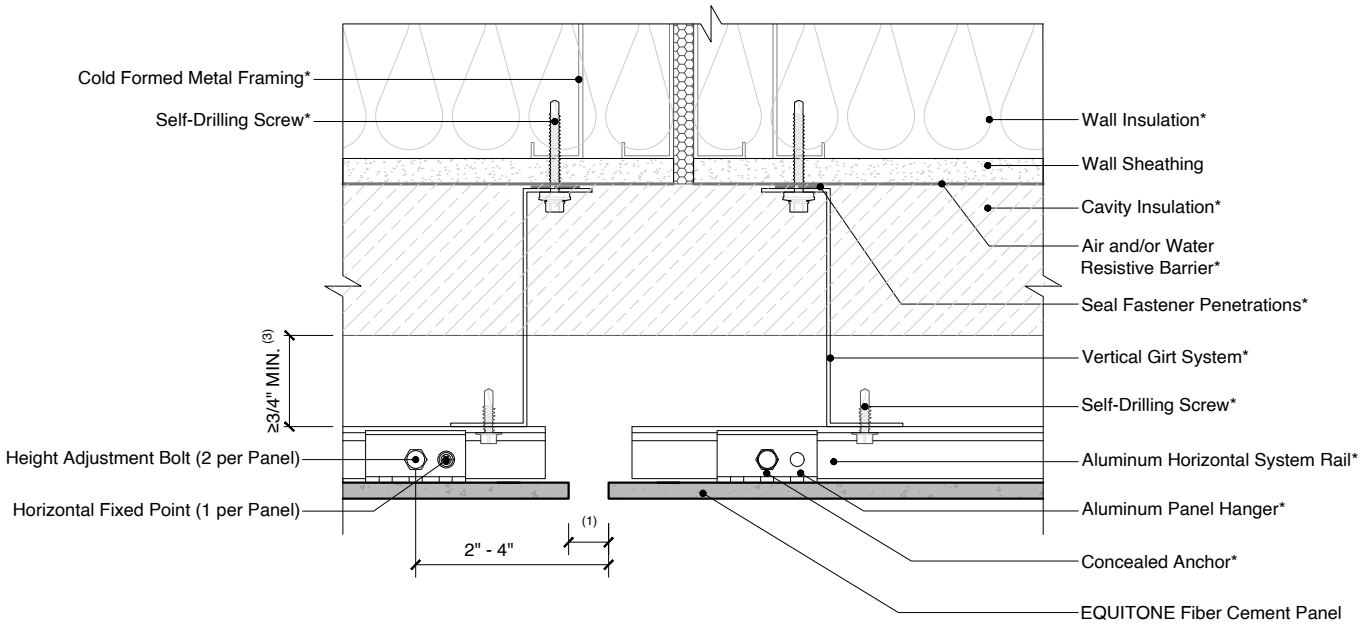
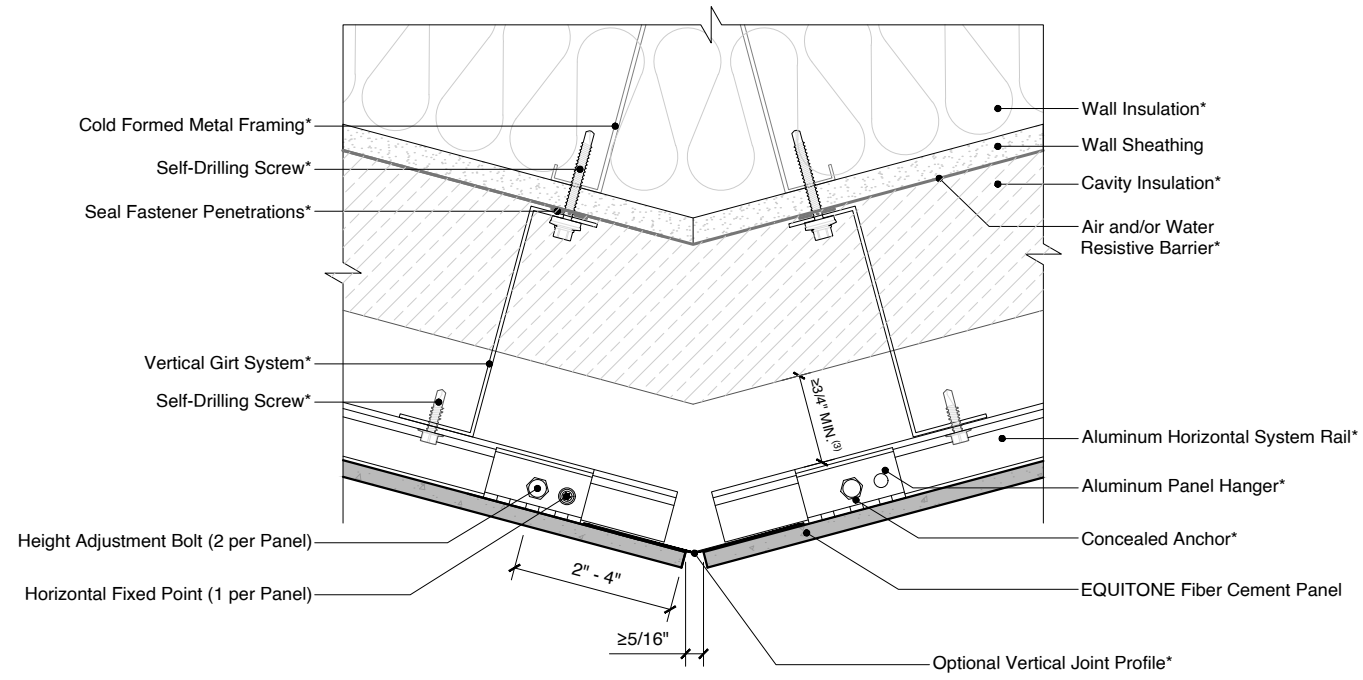
CONCEALED ANCHOR EDGE DISTANCE REQUIREMENTS

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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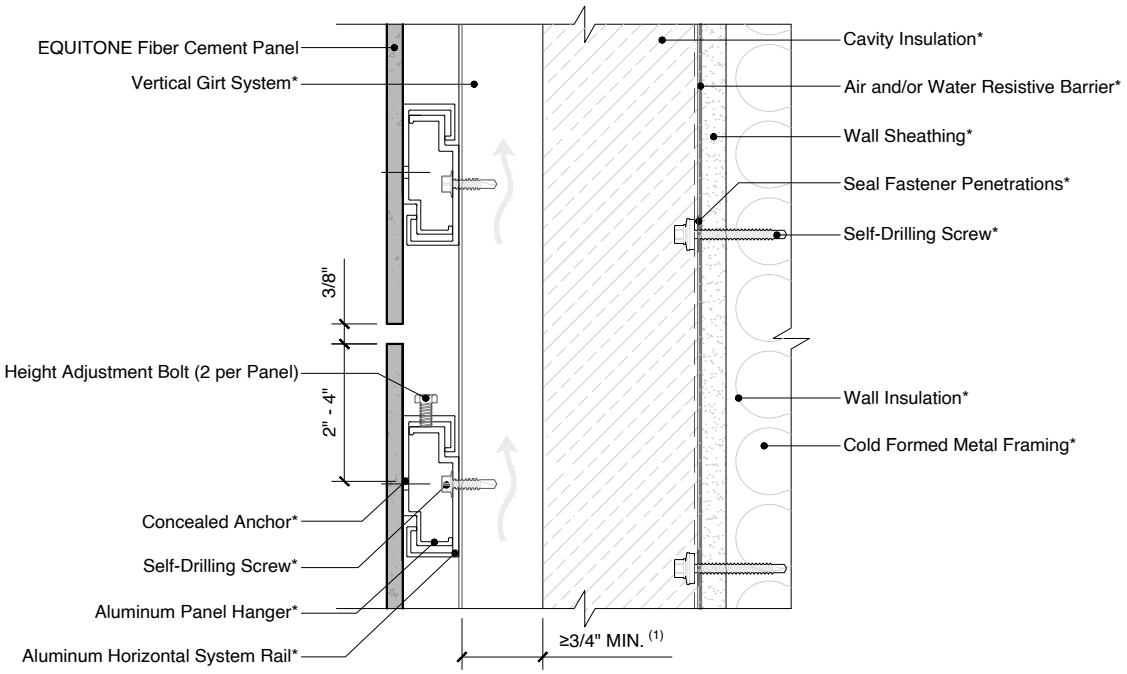
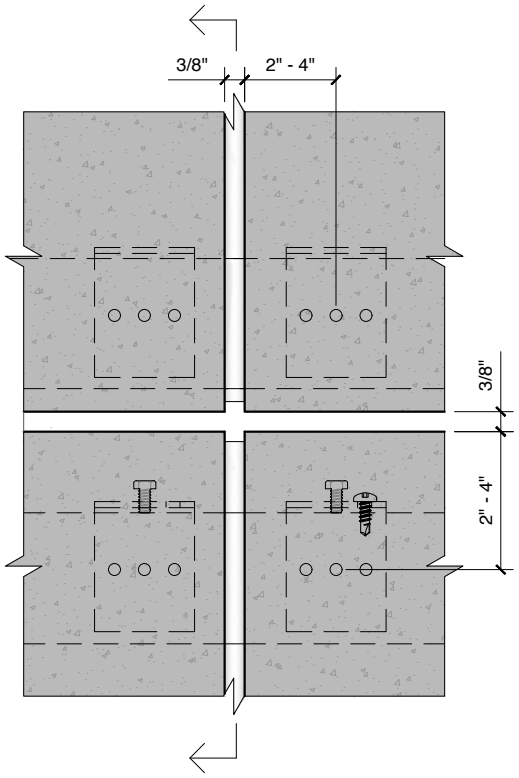
VERTICAL JOINT DETAILS

EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION





NOTES:
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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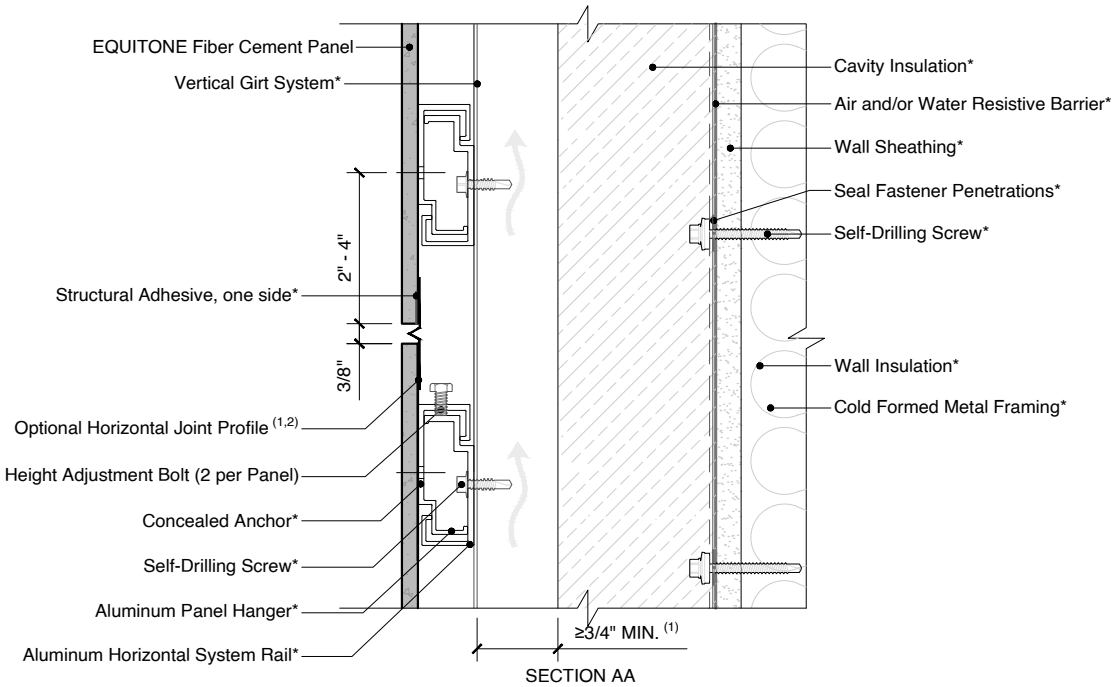
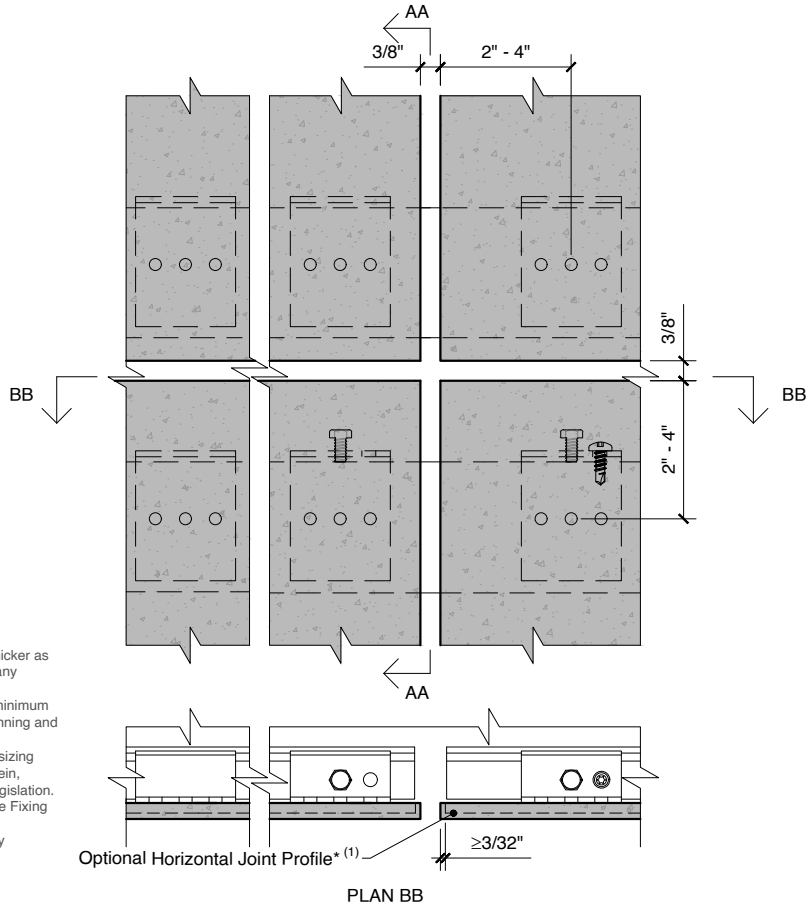
OPEN HORIZONTAL JOINT DETAILS

EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



SECTION AA



PLAN BB

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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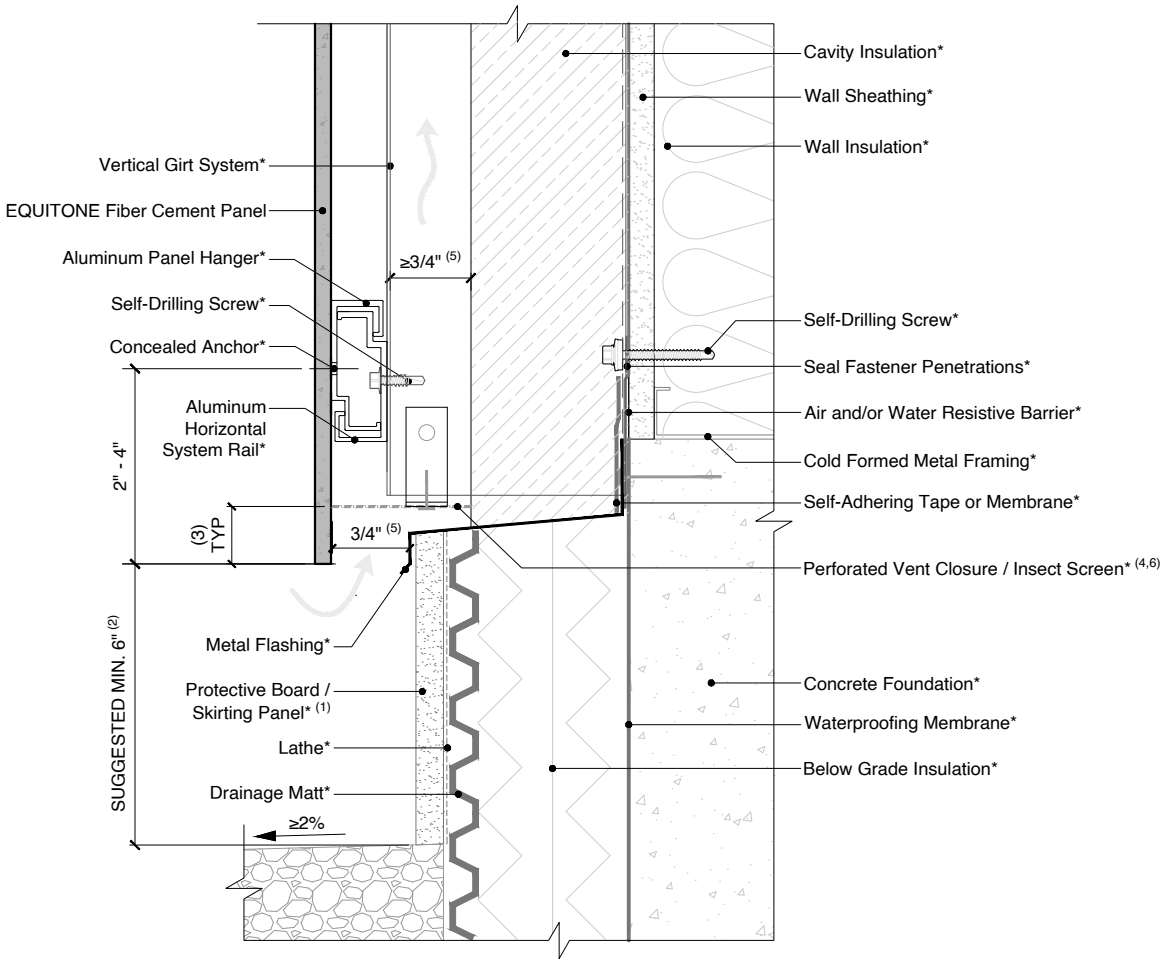
BAFFLED HORIZONTAL JOINT DETAILS

EQUITONE 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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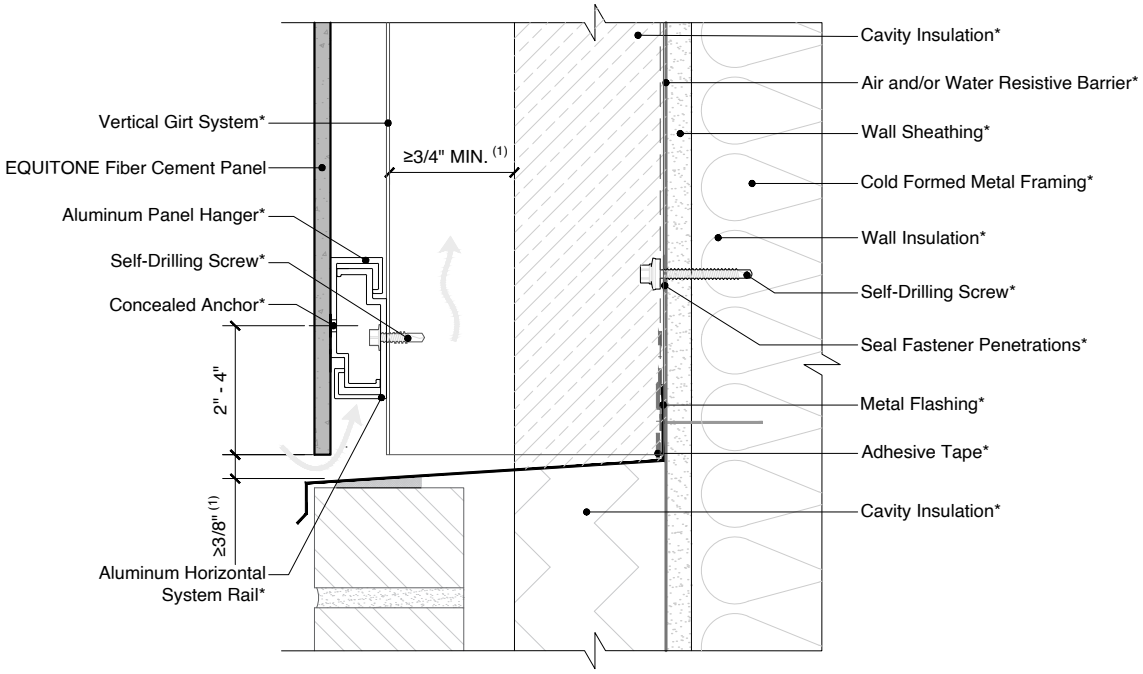
BASE DETAIL - GROUND LEVEL

EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:
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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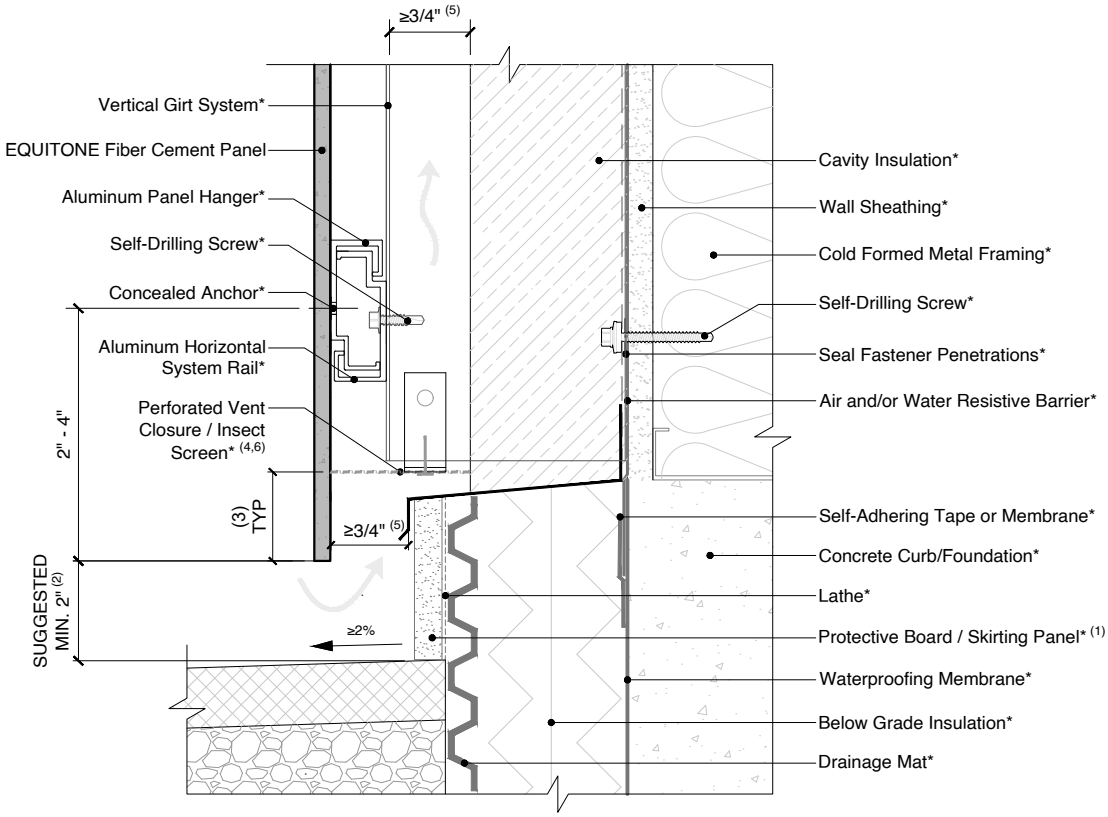
BASE DETAIL - JUNCTION WITH OTHER FACADE MATERIAL DETAIL

EQUITONE 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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DETAIL #: EQ-CF-VG-SS-BCA
RELEASE: 202411
REGION: NORTH AMERICA
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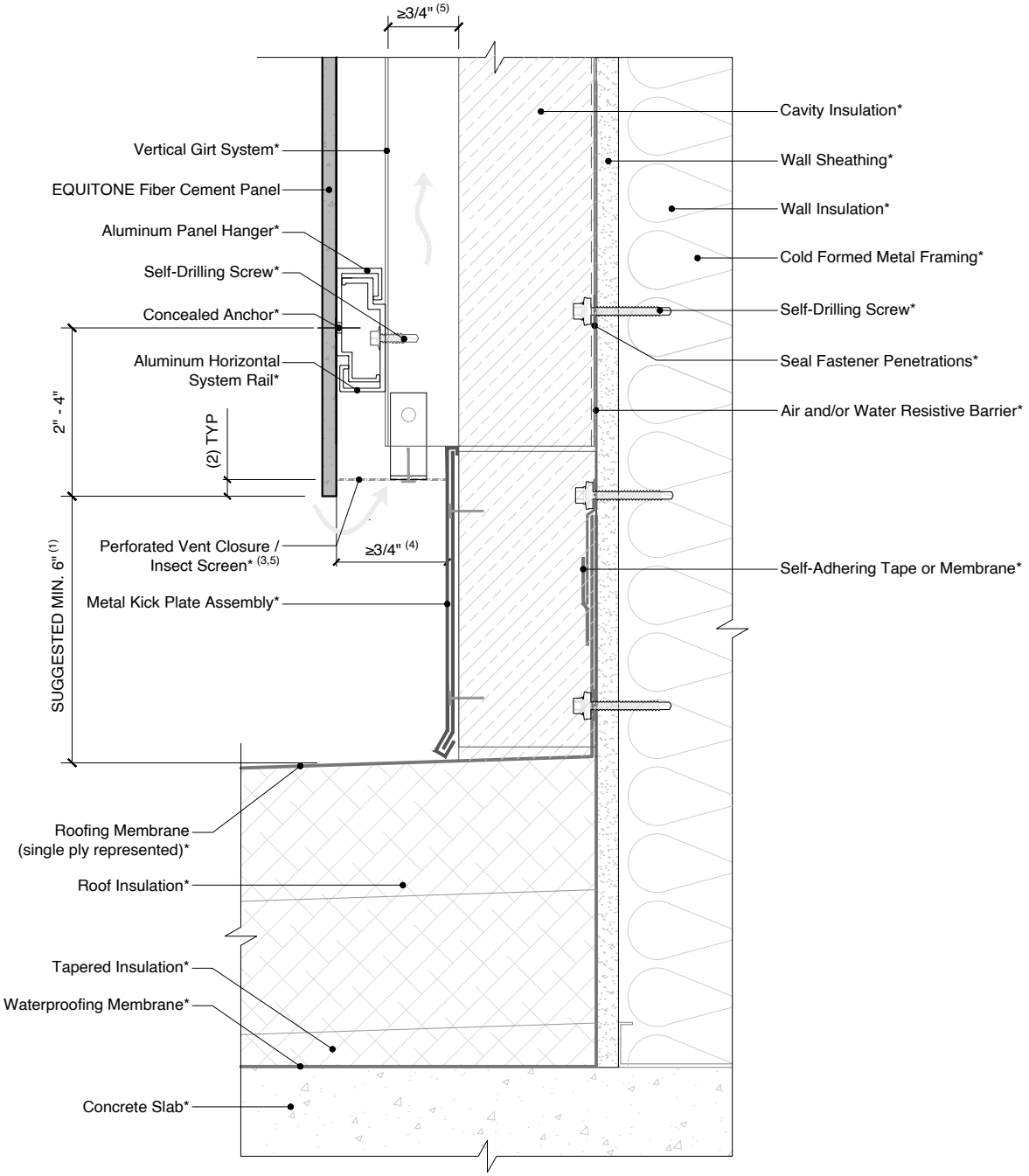
BASE DETAIL - COVERED AREA

EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

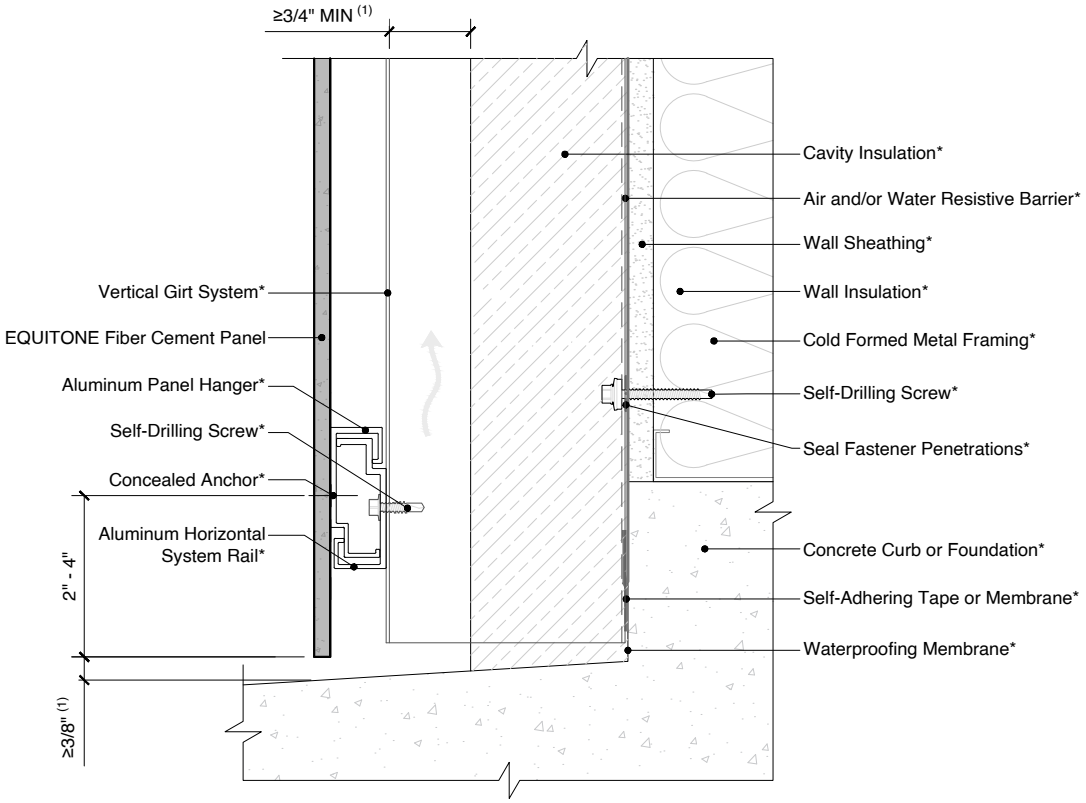
1. A smaller ground clearance is possible, but it may increase the risk of water marks and panel staining caused by splash back.
2. The facade panel should preferably overhang more than 3/8 in below the ventilation profile to create a drip edge.
3. All closures, trims, screens, etc. should be held off 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.

EQUITONE

DETAIL #: EQ-CF-VG-SS-BFR
RELEASE: 202411
REGION: NORTH AMERICA
WWW.EQUITONE.COM

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.

EQUITONE

DETAIL #: EQ-CF-VG-SS-BB
RELEASE: 202411
REGION: NORTH AMERICA
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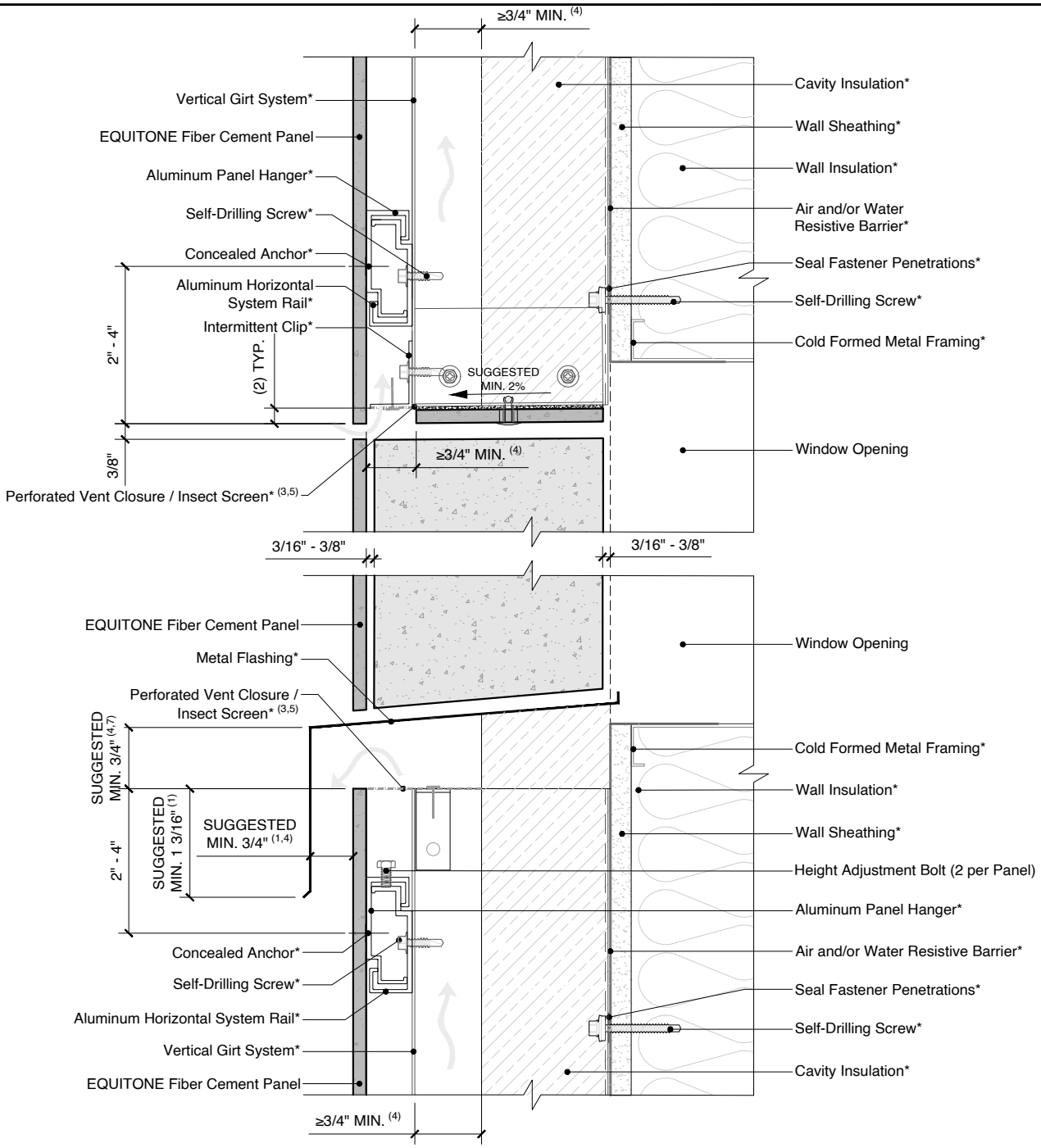
BASE DETAIL - BALCONY

EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



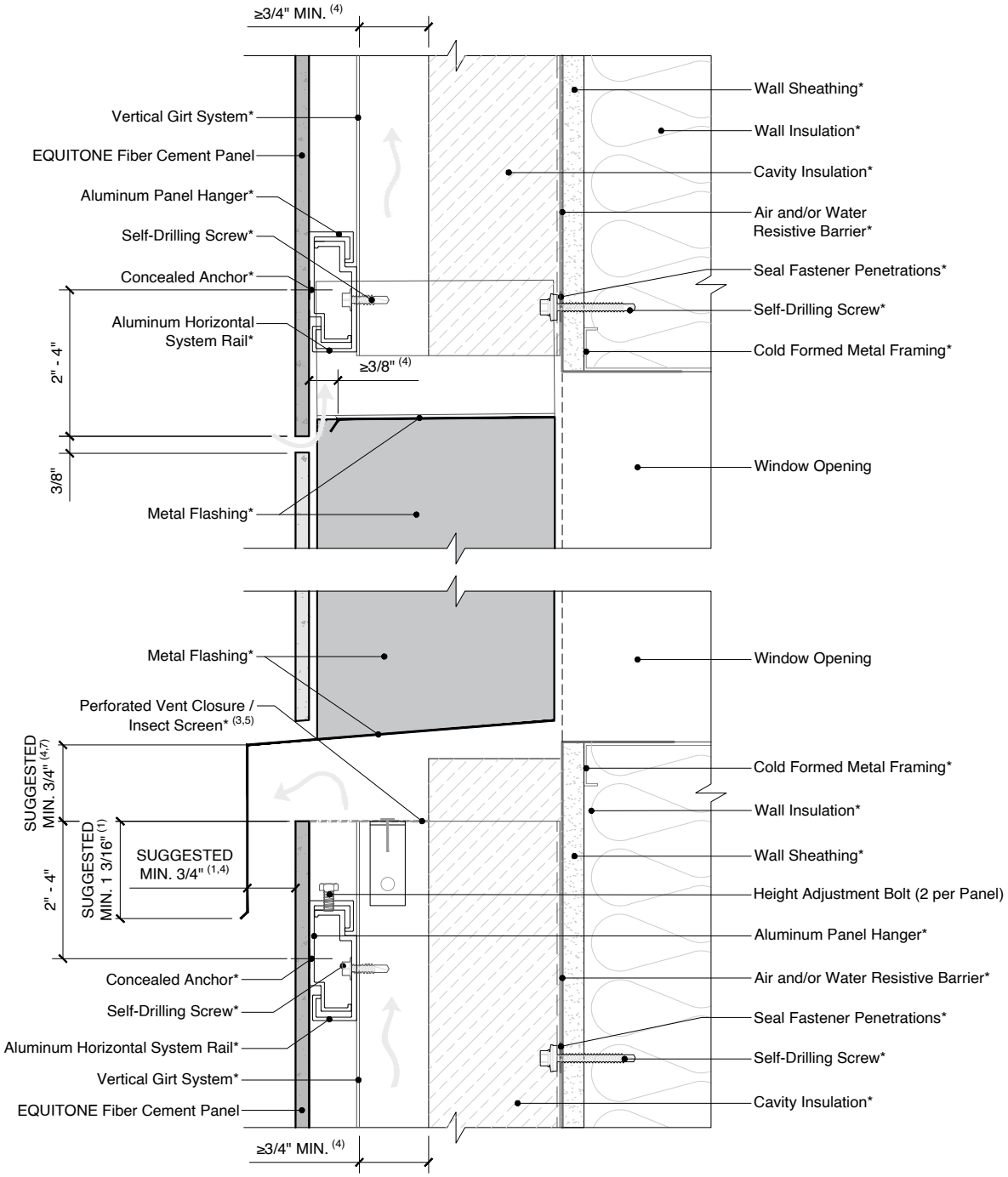
NOTES:

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 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.

EQUITONE

DETAIL #: EQ-CF-VG-SS-WHS1	WINDOW HEAD AND SILL DETAILS - OPTION 1
RELEASE: 202411	
REGION: NORTH AMERICA	
WWW.EQUITONE.COM	

EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

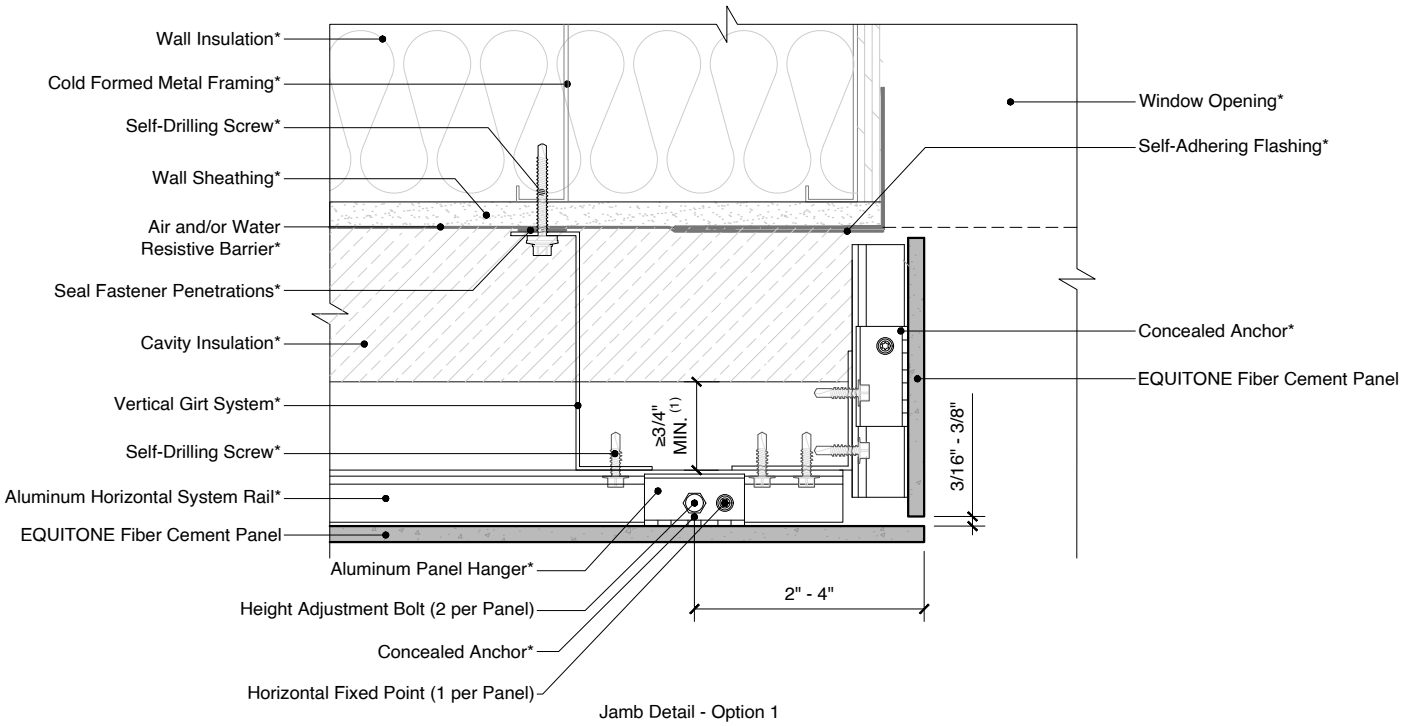
1. A smaller overlap or offset is possible, but it may increase the risk of water marks and panel staining caused by runoff. Smaller capping is also more prone to wind driven rain entering the cavity. At minimum, EQUITONE's ventilation guidelines must be followed.
2. The facade panel should preferably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

EQUITONE

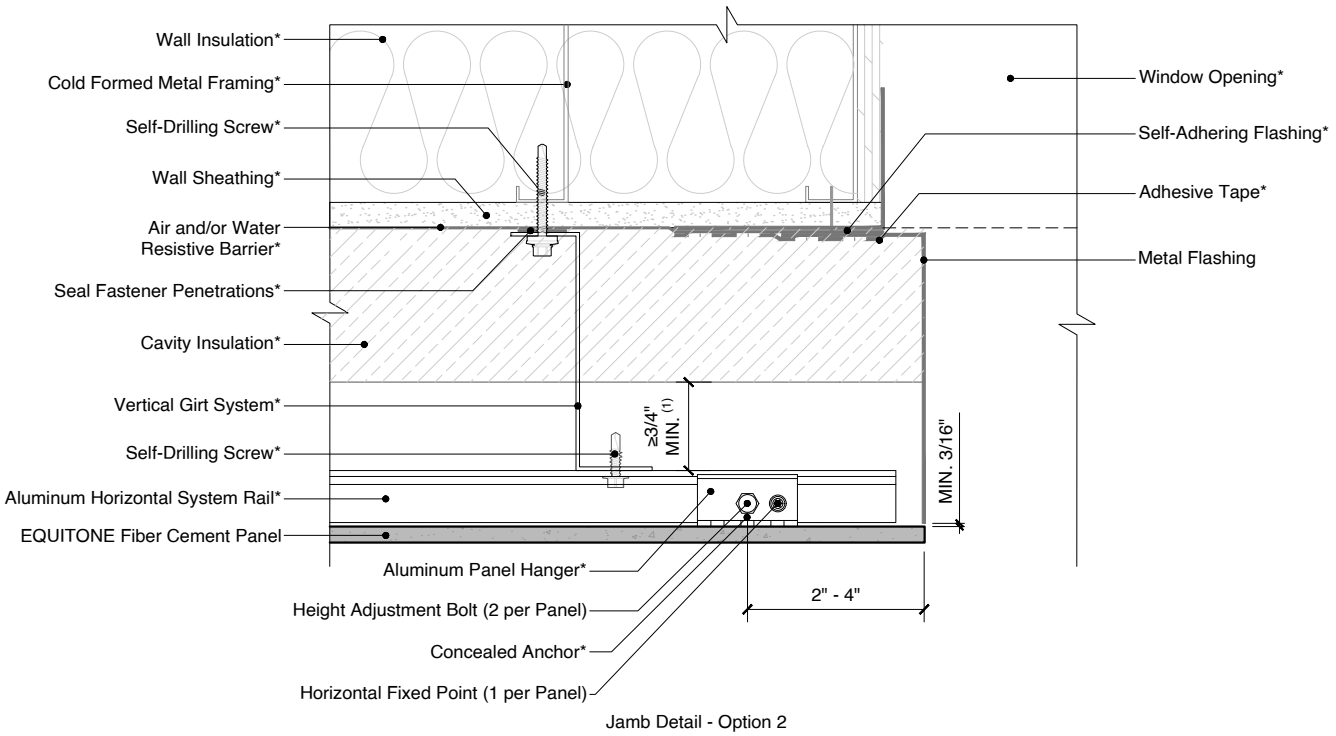
DETAIL #: EQ-CF-VG-SS-WHS2	
RELEASE: 202411	
REGION: NORTH AMERICA	
WWW.EQUITONE.COM	

WINDOW HEAD AND SILL DETAILS - OPTION 2

EQUITONE CONCEALED FASTENER USING VERTICAL GIRT 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.

EQUITONE

DETAIL #: EQ-CF-VG-SS-WJ
RELEASE: 202411
REGION: NORTH AMERICA
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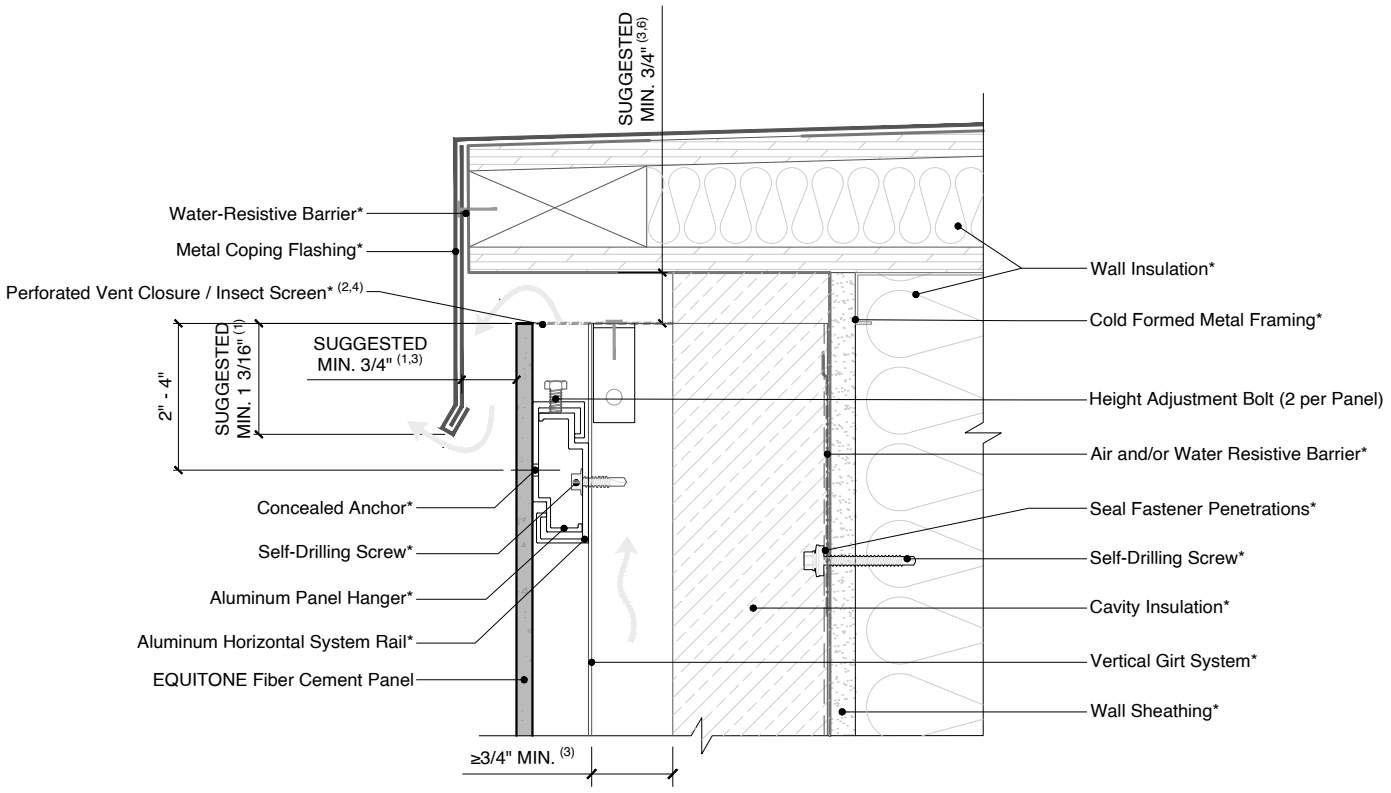
JAMB DETAIL OPTIONS

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.

EQUITONE

DETAIL #: EQ-CF-VG-SS-C1
RELEASE: 202411
REGION: NORTH AMERICA
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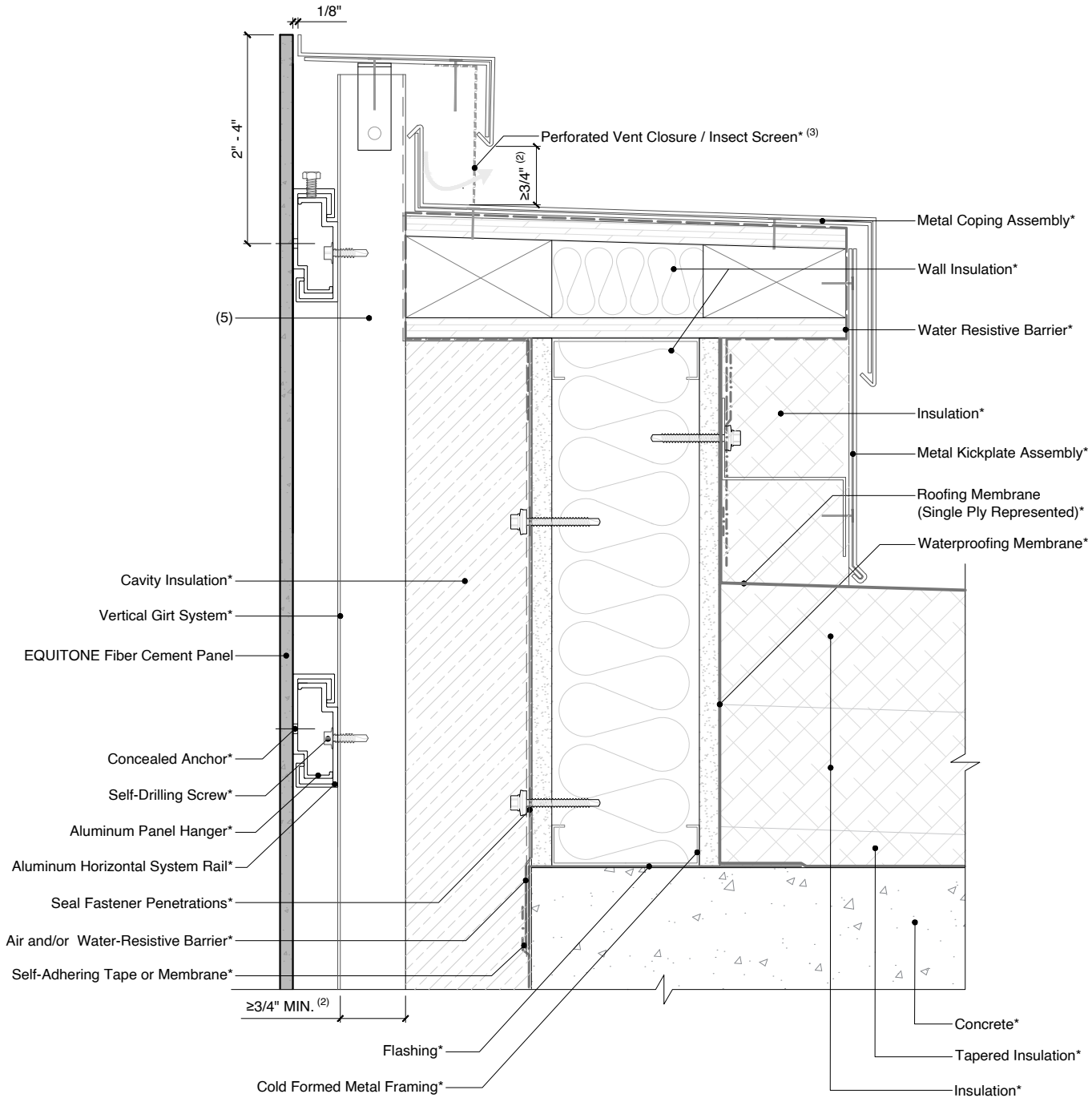
COPING DETAIL - OPTION 1

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.

EQUITONE

DETAIL #: EQ-CF-VG-SS-C2
RELEASE: 202411
REGION: NORTH AMERICA
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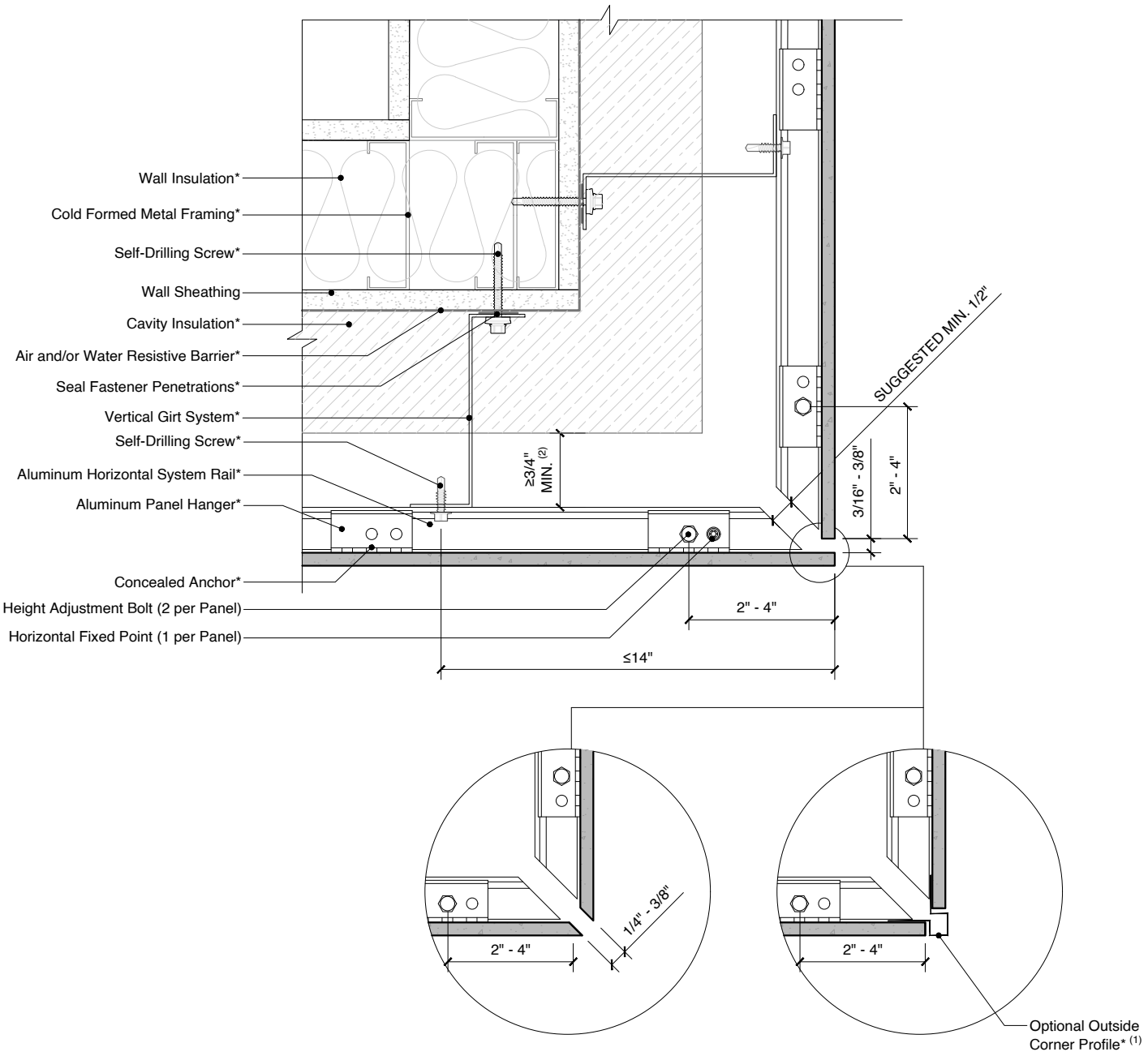
COPING DETAIL - OPTION 2

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.

EQUITONE

DETAIL #: EQ-CF-VG-SS-OC
RELEASE: 202411
REGION: NORTH AMERICA
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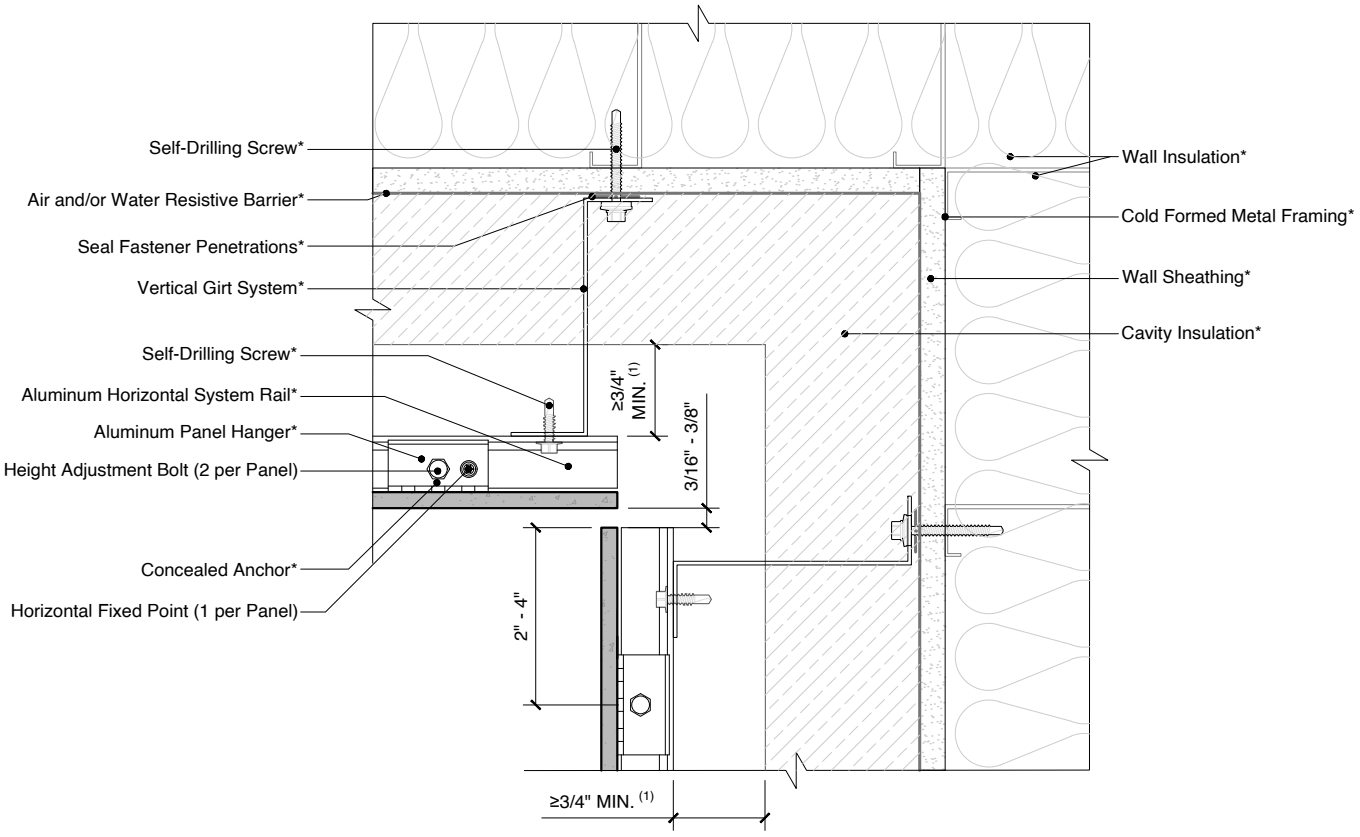
OUTSIDE CORNER DETAIL

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.

EQUITONE

DETAIL #: EQ-CF-VG-SS-IC
RELEASE: 202411
REGION: NORTH AMERICA
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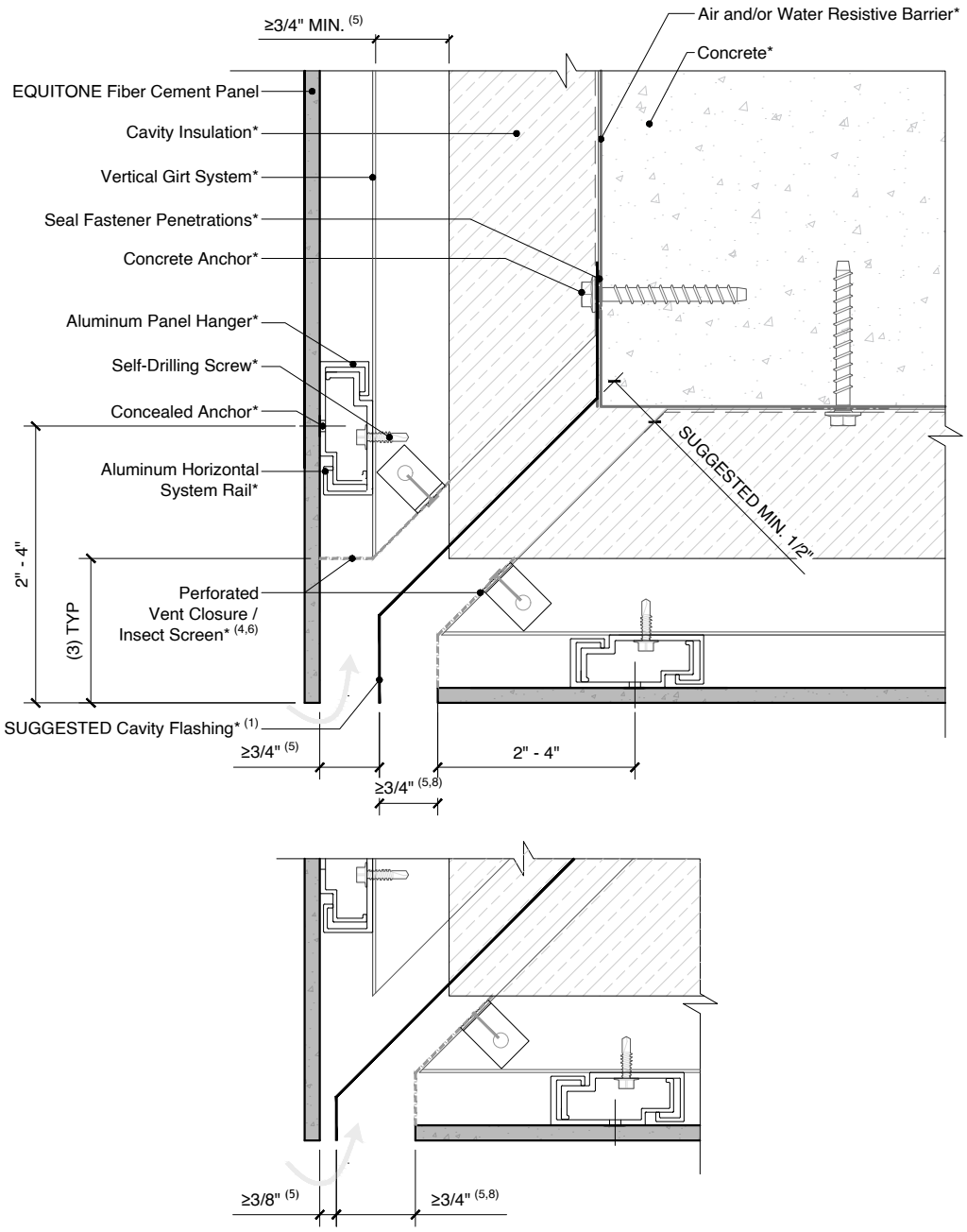
INSIDE CORNER DETAIL

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.

EQUITONE

DETAIL #: EQ-CF-VG-SS-SCO
RELEASE: 202411
REGION: NORTH AMERICA
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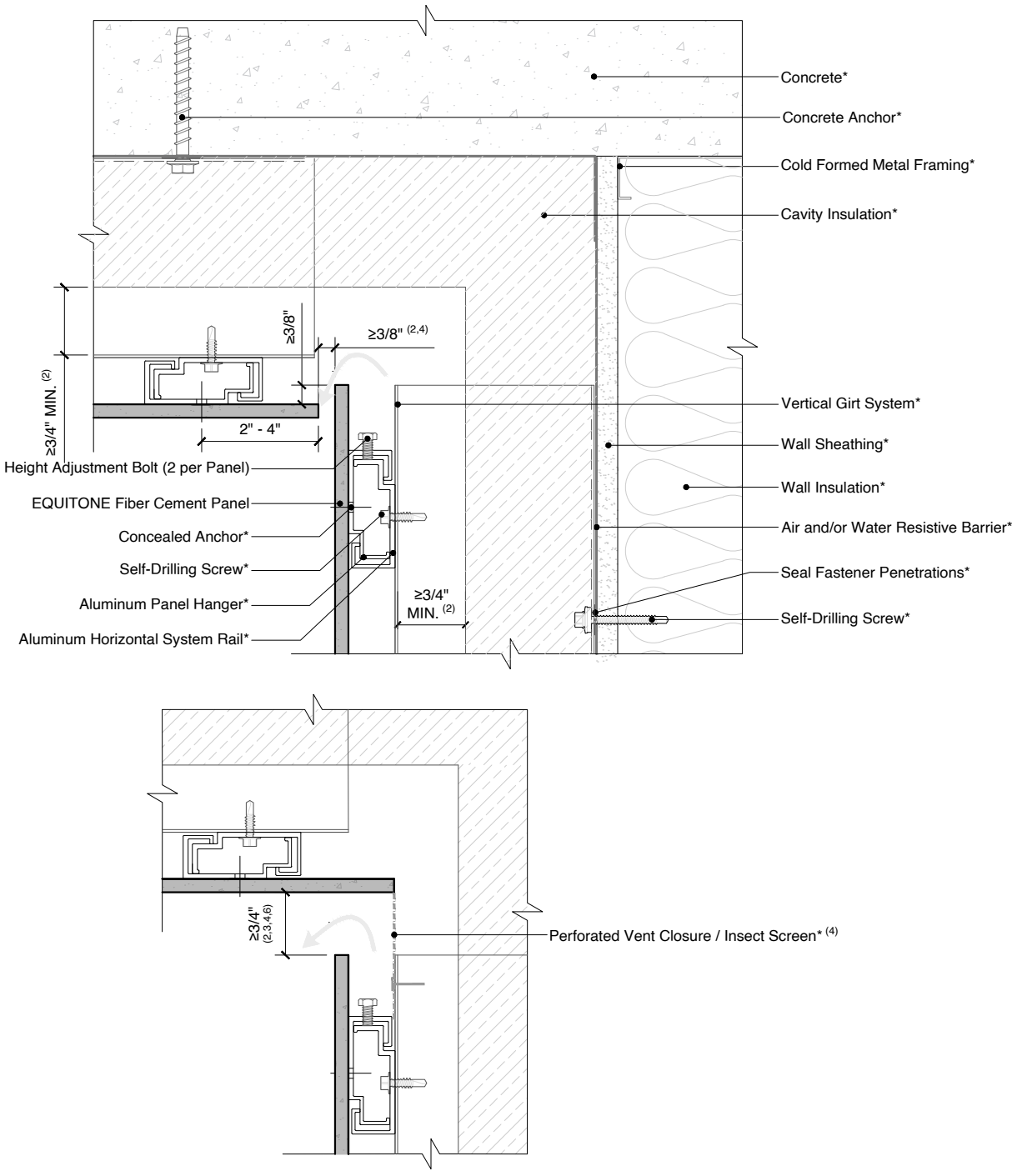
SOFFIT / CEILING WALL JUNCTION - OUTSIDE EDGE

EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



NOTES:

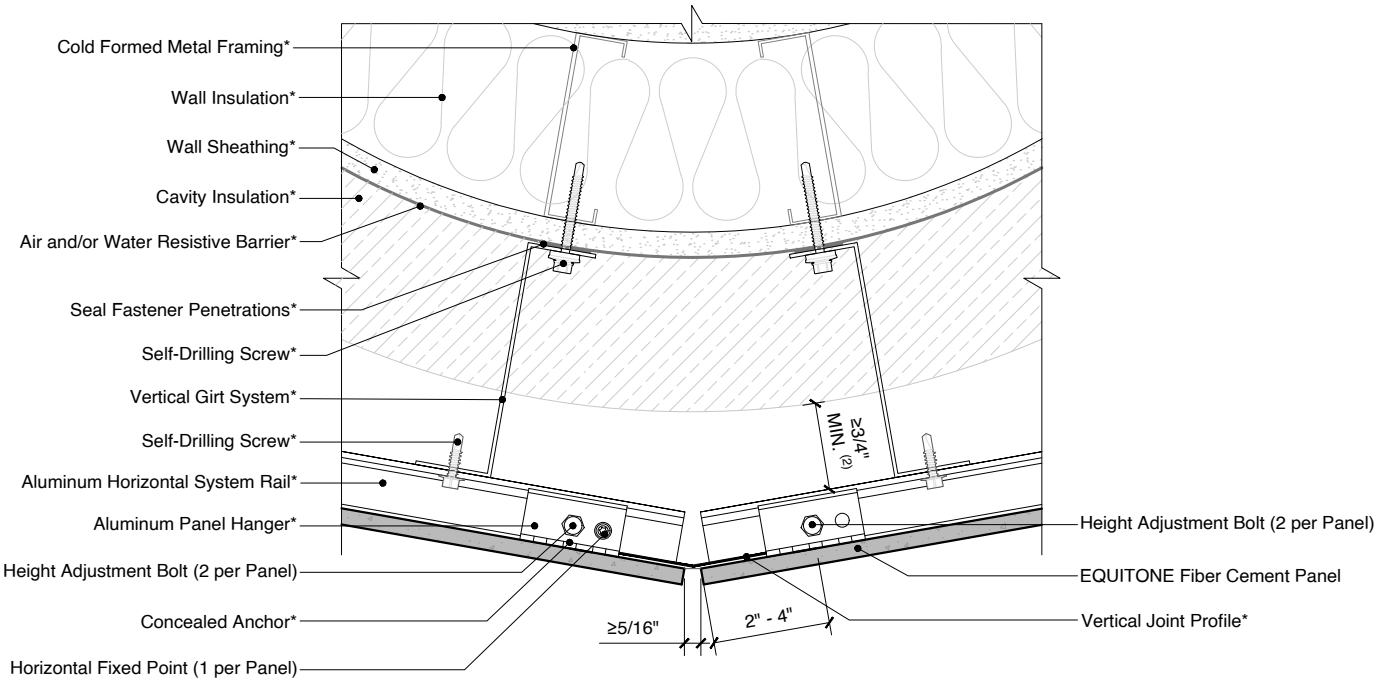
1. For soffit conditions, rivet spacing should be limited to 16 inch on center and should be confirmed through project engineering.
2. All closures, trims, screens, etc. should be held back off of the back of the panel by at least 1/16 inch.
3. Inlet/outlet, air cavity, and closure perforation sizing 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.

EQUITONE

DETAIL #: EQ-CF-VG-SS-SCI
RELEASE: 202411
REGION: NORTH AMERICA
WWW.EQUITONE.COM

SOFFIT / CEILING WALL JUNCTION - INSIDE EDGE

EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



Segmented Facade - Radius

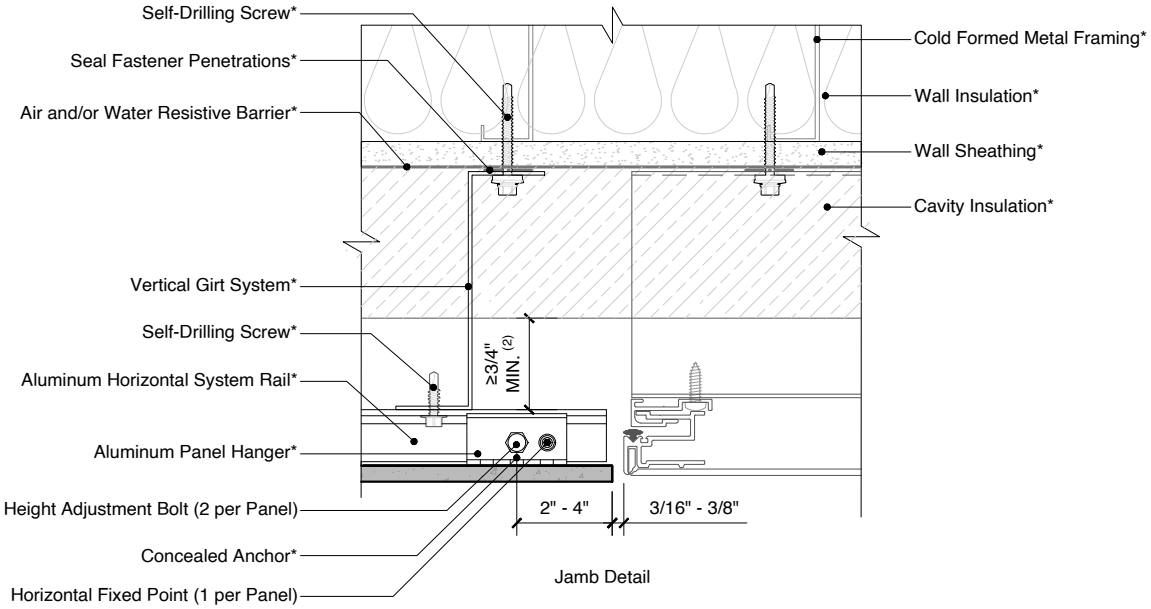
NOTES:
1. Flashing used to close the joints may not be thicker as 1/32 in (23 gauge), including the thickness of any fastener heads.
2. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit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

EQUITONE

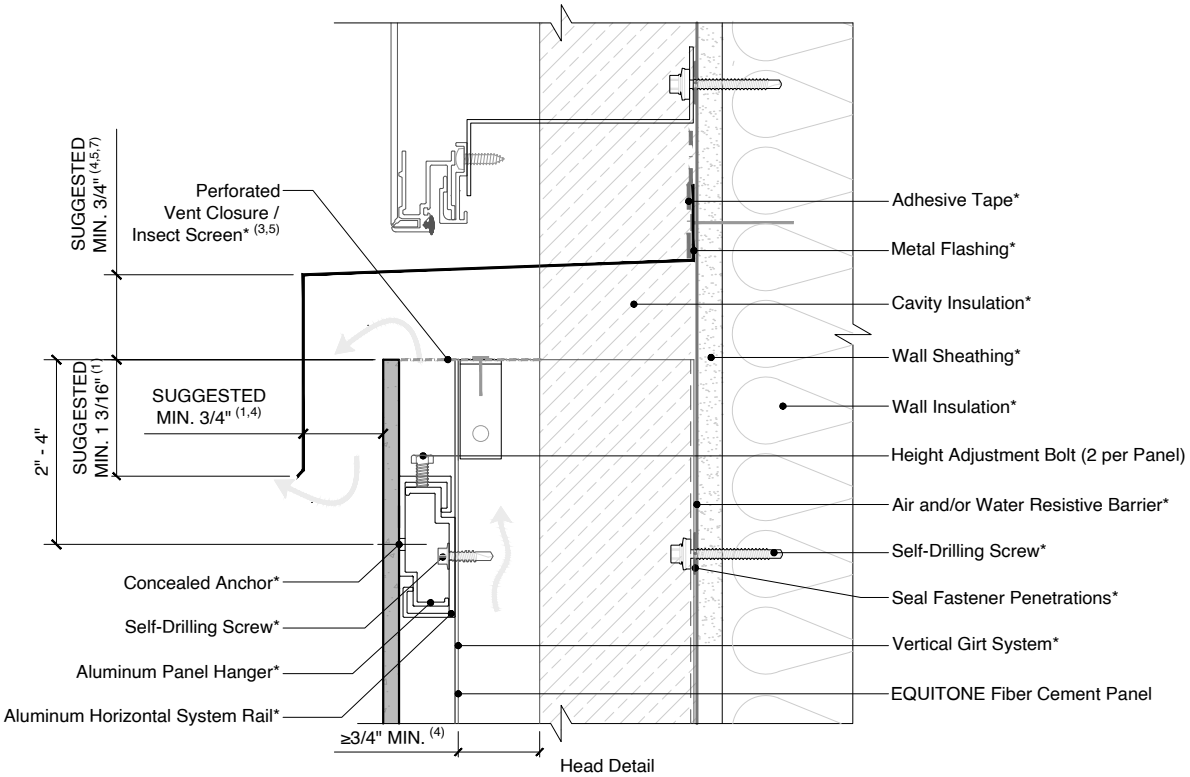
DETAIL #: EQ-CF-VG-SS-CURVE
RELEASE: 202411
REGION: NORTH AMERICA
WWW.EQUITONE.COM

CURVED FACADE DETAILS

EQUITONE CONCEALED FASTENER USING VERTICAL GIRT SYSTEMS ON STEEL STUD CONSTRUCTION



Jamb Detail



Head Detail

NOTES:

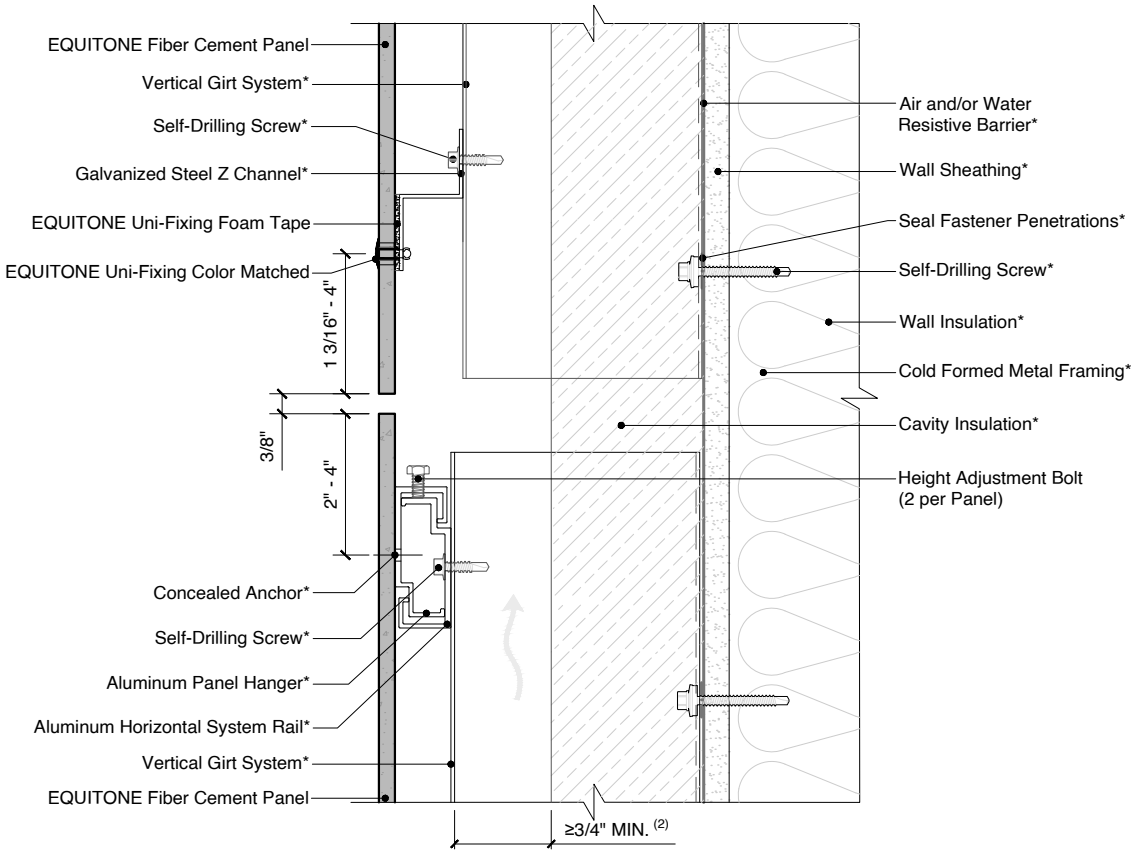
1. A smaller overlap or offset is possible, but it may increase the risk of water marks and panel staining caused by runoff. Smaller capping is also more prone to wind driven rain entering the cavity. At minimum, EQUITONE's ventilation guidelines must be followed.
2. The facade panel should preferably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

EQUITONE

DETAIL #: EQ-CF-VG-SS-OM
RELEASE: 202411
REGION: NORTH AMERICA
WWW.EQUITONE.COM

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.

EQUITONE

DETAIL #:	EQ-CF-VG-SS-FJ
RELEASE:	202411
REGION:	NORTH AMERICA
	WWW.EQUITONE.COM

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.

This document is supplied in good faith and no liability can be accepted for any of or damage resulting from its use. Images and construction details contained in this document are not to a specific scale, are indicative and for illustration purposes only, and should not be used as final construction drawings.

Please visit www.equitone.com for contact details further information and technical documents.

www.equitone.com

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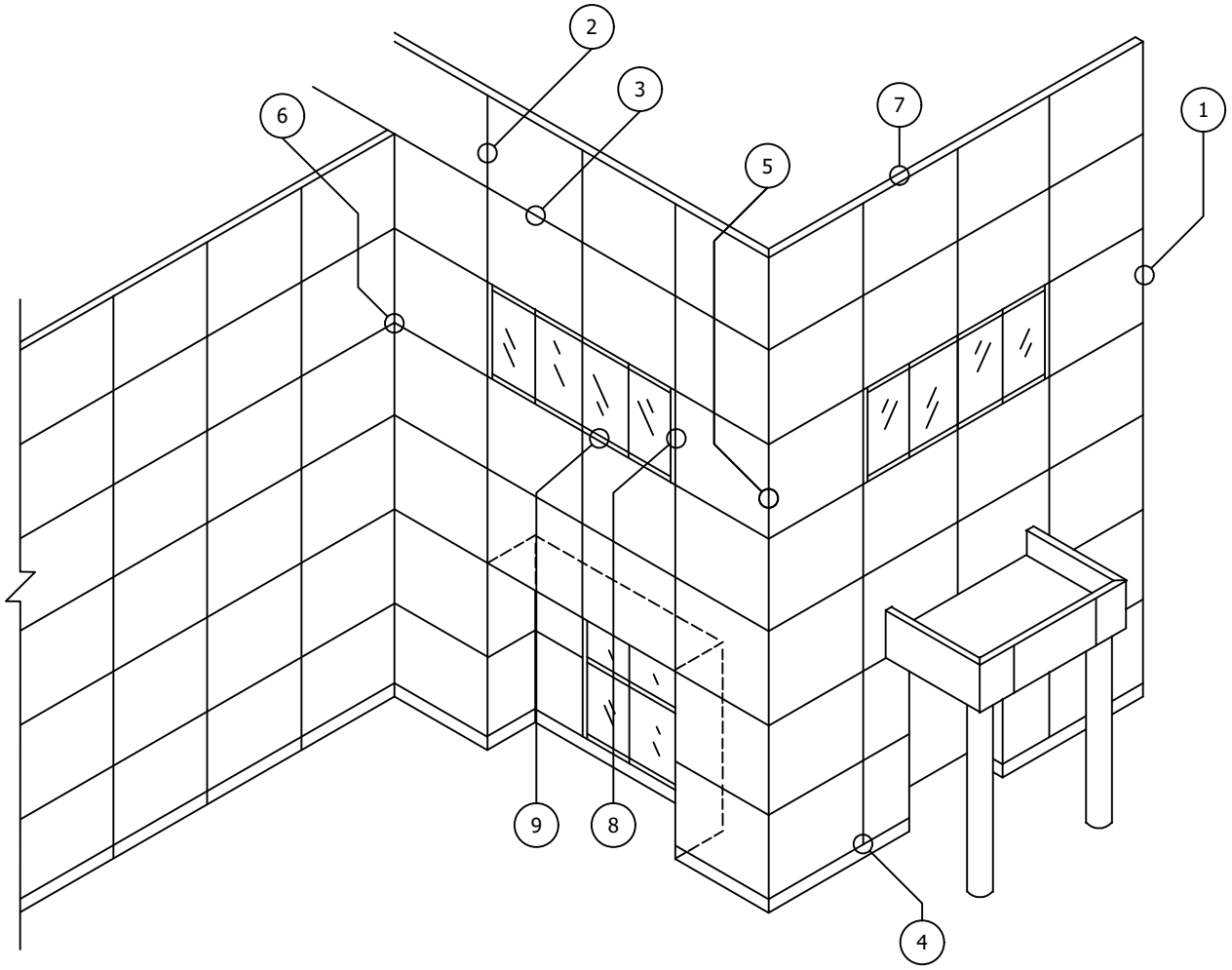
www.equitone.com/en-ca/

AMD - EQUITONE FIBRE CEMENT PANEL SYSTEM
WITH SFS NV3 CONCEALED ATTACHMENT SYSTEM



EQUITONE PANEL DETAILS:

1. TYP. BASE DETAIL AT FOUNDATION OR TERMINATION DETAIL
2. TYP. VERTICAL JOINT DETAIL
3. TYP. HORIZONTAL JOINT DETAIL
4. TYP. PANEL TERMINATION AT DISSIMILAR/ADJACENT MATERIAL
5. TYP. OUTSIDE CORNER DETAIL
6. TYP. INSIDE CORNER DETAIL
7. TYP. PARAPET DETAIL
8. TYP. WINDOW JAM DETAIL
9. TYP. WINDOW SILL DETAIL

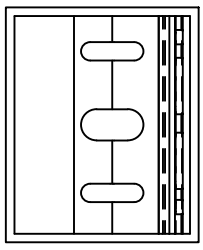
ARCHITECTURAL
METAL DESIGNS, INC.
1505 Pineland Ave., Millville, NJ 08332
www.amdnj.com
Ph: (877) 310-3506 Fax: (856) 765-3350

TITLE:	DRAWING #
REFERENCE - ELEVATION VIEW	R1
SCALE: NA / JULY 18, 2019	

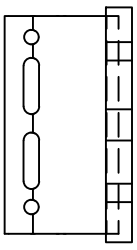
MATERIAL LEGEND		
ITEM #	MATERIAL	NOTES
1	EQUITONE FIBRE CEMENT PANEL	PROVIDED BY AMD
2	NVELOPE NV1 UNIVERSAL BRACKET	PROVIDED BY AMD
3	NVELOPE NV1 DOUBLE BRACKET	PROVIDED BY AMD
4	NV1 L-RAIL 6005A-T6 ALUMINUM	PROVIDED BY AMD
5	NV1 T-RAIL 6005A-T6 ALUMINUM	PROVIDED BY AMD
6	NVELOPE NH2 ADAPTOR	PROVIDED BY AMD
7	NVELOPE OMEGA RAIL	PROVIDED BY AMD
8	NVELOPE Z RAIL	PROVIDED BY AMD
9	SFS RIVET	PROVIDED BY AMD
10	PERFORATED ALUMINUM	PROVIDED BY AMD
11	SHEATHING/FRAMING	BY OTHERS
12	3M AIR BARRIER (RECOMMENDED BY AMD)	BY OTHERS
13	STEEL STUD FRAMING	BY OTHERS
14	CURTAIN WALL	BY OTHERS
15	BREAK METAL COPING	BY OTHERS
16	BREAK METAL FLASHING	BY OTHERS
17	DOOR SYSTEM	BY OTHERS
18	INSULATION	BY OTHERS
19	FOAM TAPE	PROVIDED BY AMD
20	CMU	BY OTHERS
21	Z-GIRT	BY OTHERS
22		
23		
24		
25		

STANDARD NEVELOPE FASTNERS							
N0.	TYPICAL USE & APPLICATION	LENGTH	DIAMETER	HEAD/DRIVE	TIP	PART #	NOTES
F01	Nvelope Bracket to Steel Stud Framing	2" (50.8mm)	#14 (6.5mm)	HWH	Self-Drill	1590627	
F02	Nvelope Bracket to CMU Substrate	3" (76.2mm)	1/2" (13mm)	HWH	Self-Tap	1583839	
F03	Nvelope Bracket to Concrete Wall	3" (76.2mm)	1/2" (13mm)	HWH	Self-Tap	1583839	
F04	Nvelope Bracket to Wood Stud Framing	2-1/16" (52mm)	#14 (6.5mm)	HWH	Self-Drill	1544250	
F05	NH-2 Adapter to Nvelope Wall Bracket	3/4" (19mm)	#10 (4.8mm)	Pan-Head/SR	Self-Drill	1544261	
F06	Vertical Rail to Nvelope Wall Bracket	3/4" (19mm)	#10 (4.8mm)	Pan-Head/SR	Self-Drill	1544261	
F07	Horizontal Profiles to Vertical Rail	7/8" (22mm)	#12 (5.5mm)	HWH	Self-Drill	1544263	
F08	Horizontal NV3 Rails to NV3 Hanger Clips	1-5/8" (41mm)	#12 (5.5mm)	HWH	Self-Drill	1553924	
F09	Nvelope NV3 Hanger Adjustment Screw	3/4" (20mm)	M6			1521489	
F10	SFS TUF-S Concealed Fastener	9 MM				1554325	

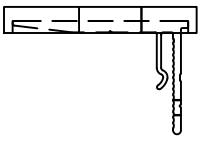
NV1 BRACKET SYSTEM



FRONT

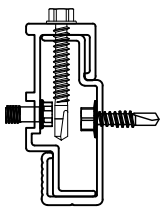


SIDE



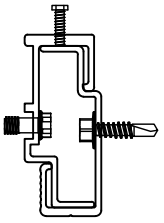
PLAN

NV3 FIXED HANGER TO BRACKET



SECTION

NV3 ADJUSTABLE HANGER TO BRACKET

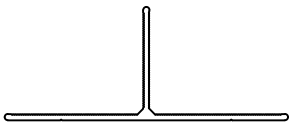


SECTION

NV1 L-RAIL

PLAN

NV1 T-RAIL



PLAN

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TITLE:

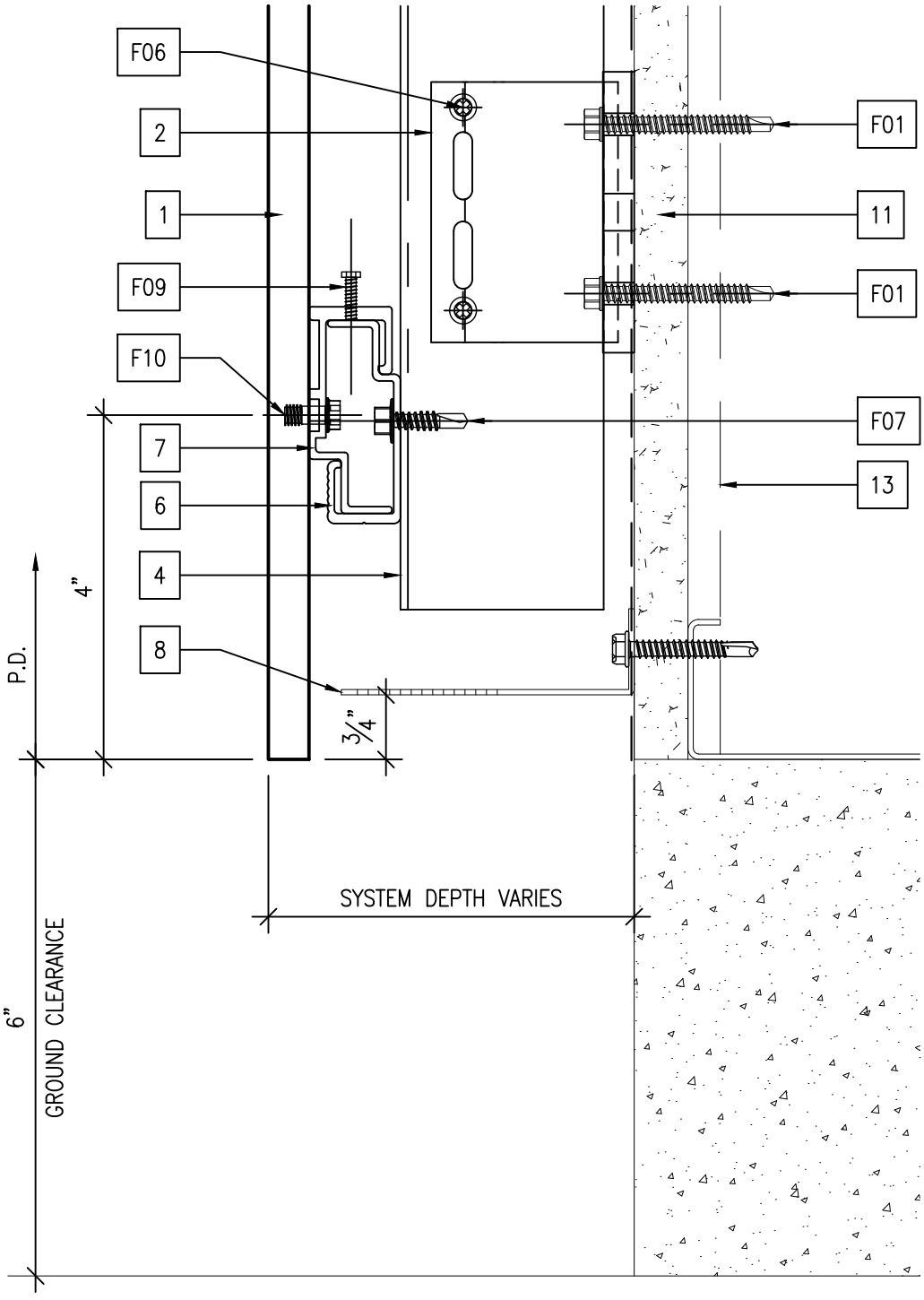
REFERENCE - MATERIAL LEGEND

DRAWING #

R2

SCALE: NA | JULY 18, 2019

AMD - EQUITONE FIBRE CEMENT PANEL SYSTEM
WITH SFS NV3 CONCEALED ATTACHMENT SYSTEM



NOTE:
MATERIA REQUIRES 12" OF GROUND CLEARANCE.

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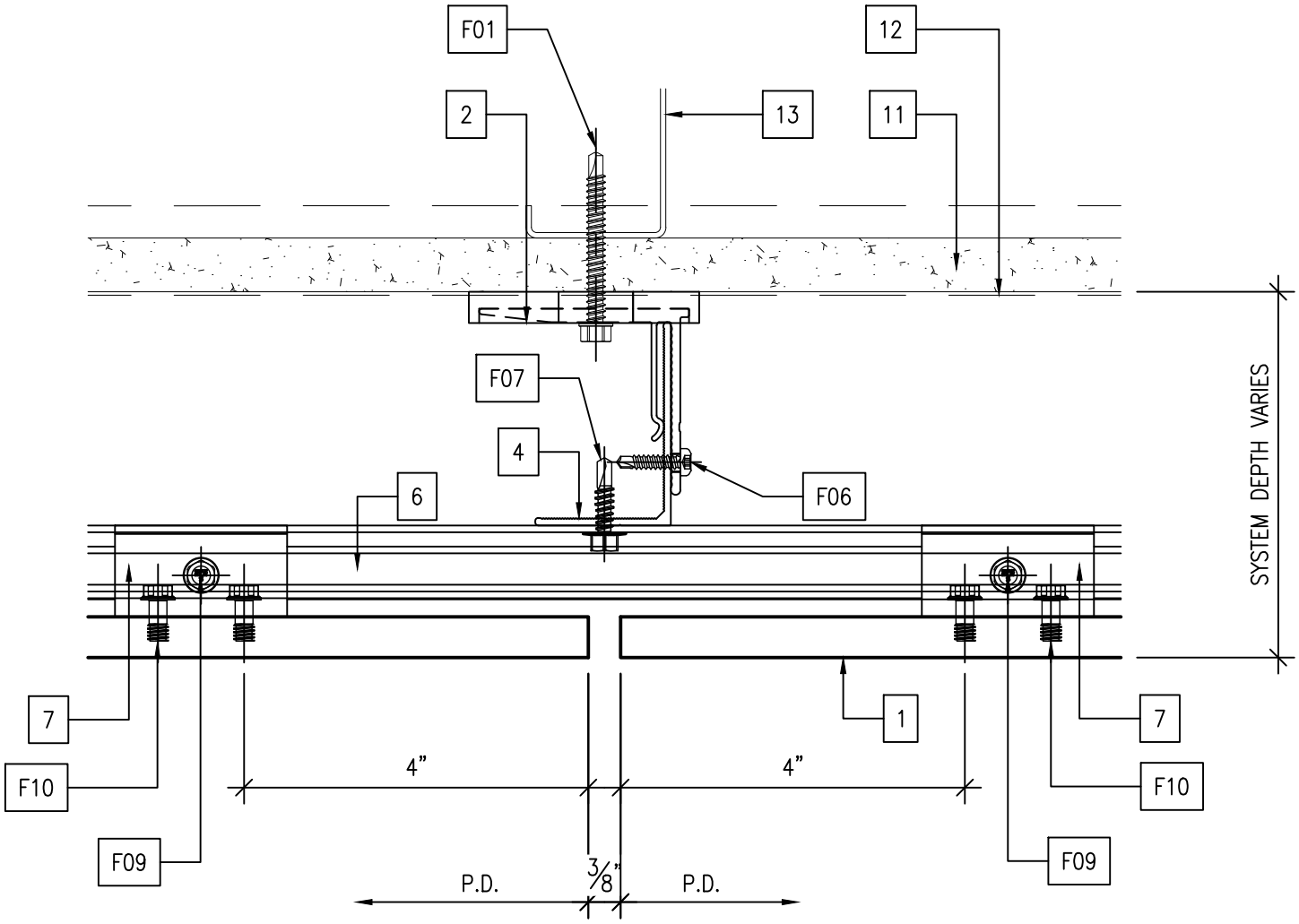
TITLE:	DRAWING #
TYPICAL BASE DETAIL AT FOUNDATION OR TERMINATION DETAIL	1
SCALE: 6"=1' JULY 18, 2019	

AMD - EQUITONE FIBRE CEMENT PANEL SYSTEM
WITH SFS NV3 CONCEALED ATTACHMENT SYSTEM



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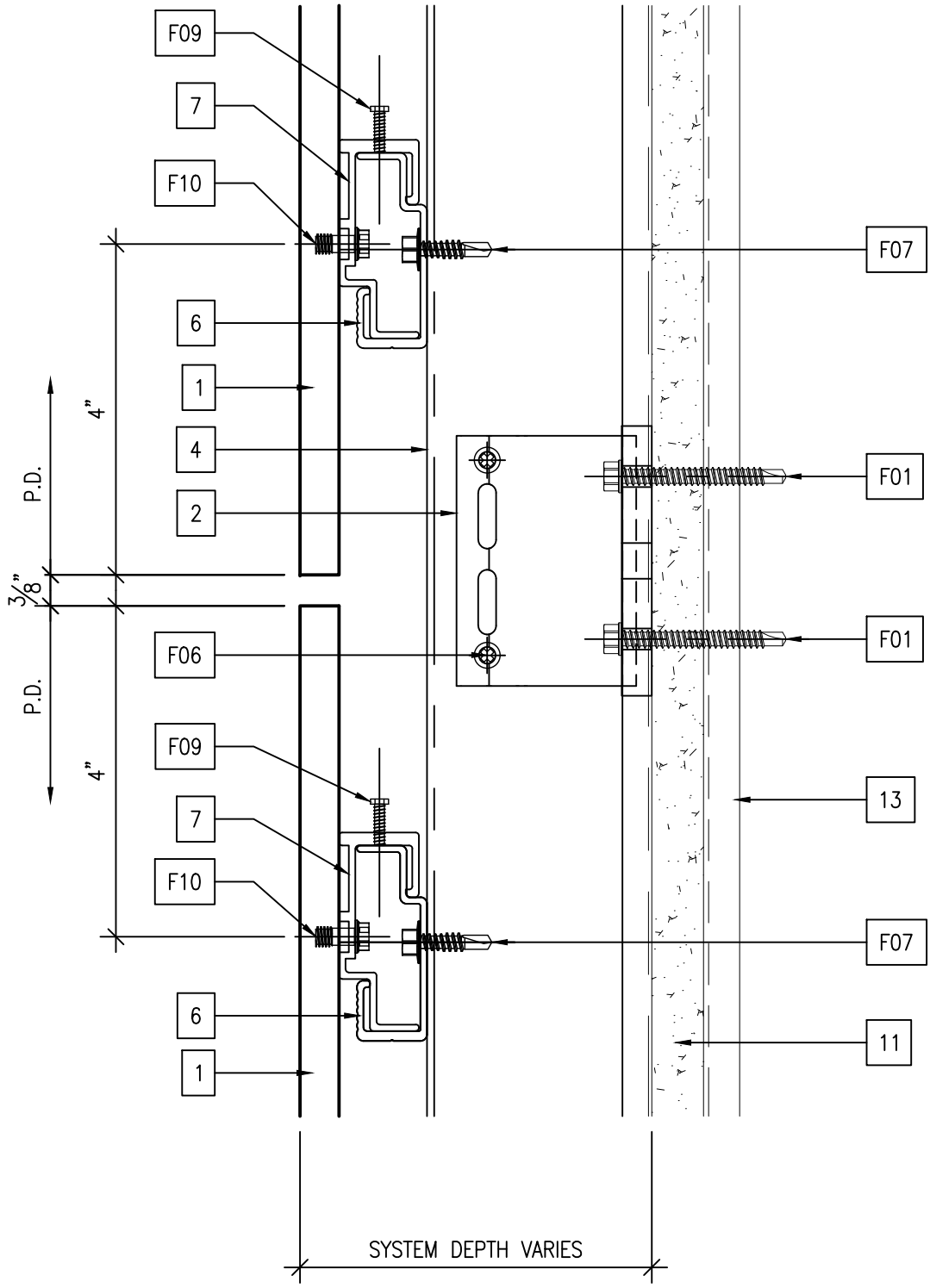
TITLE:	DRAWING #
TYPICAL VERTICAL JOINT DETAIL	2
SCALE: 6"=1' JULY 18, 2019	

AMD - EQUITONE FIBRE CEMENT PANEL SYSTEM
WITH SFS NV3 CONCEALED ATTACHMENT SYSTEM



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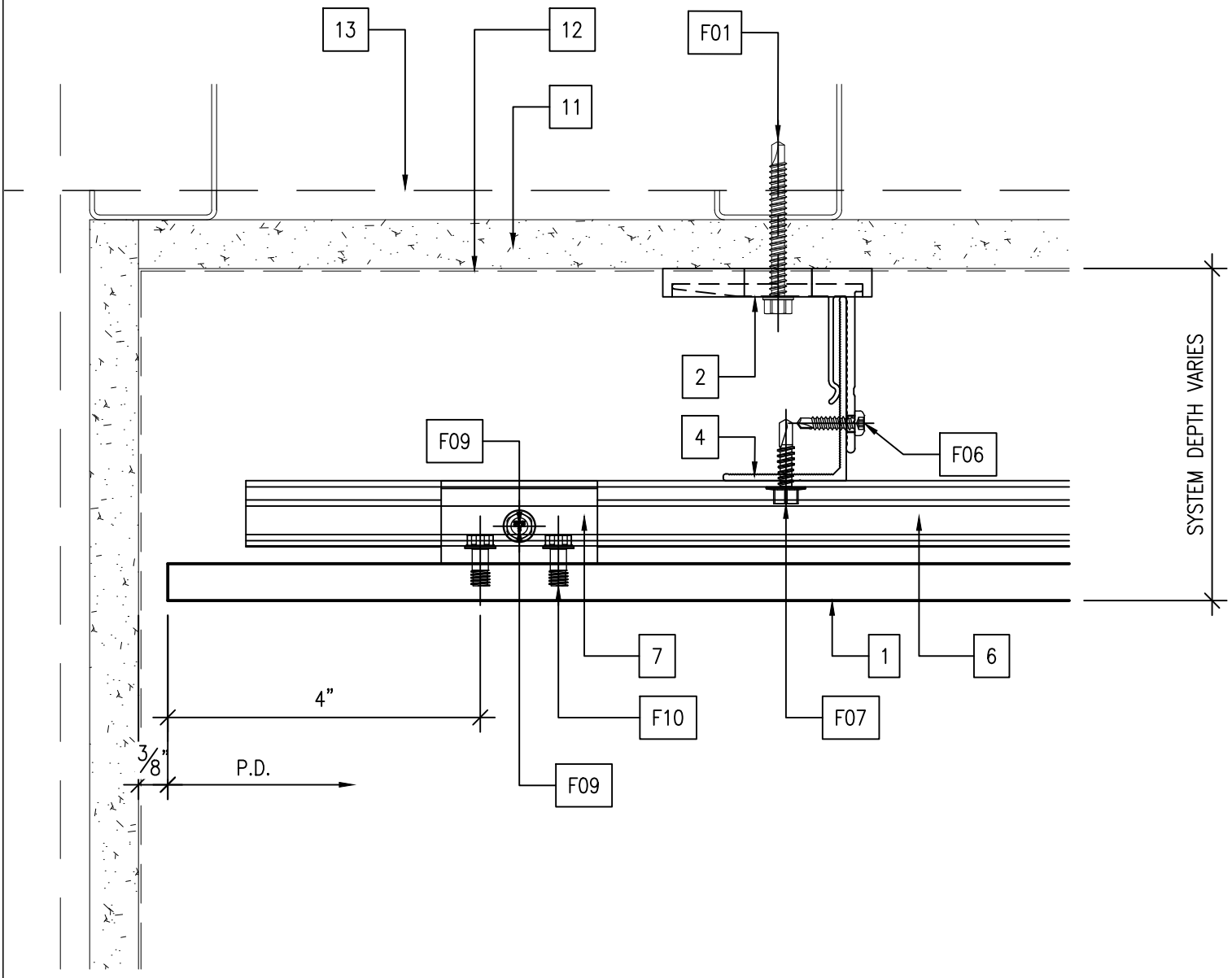
TITLE:	DRAWING #
TYPICAL HORIZONTAL JOINT DETAIL	3
SCALE: 6"=1' JULY 18, 2019	

AMD - EQUITONE FIBRE CEMENT PANEL SYSTEM
WITH SFS NV3 CONCEALED ATTACHMENT SYSTEM



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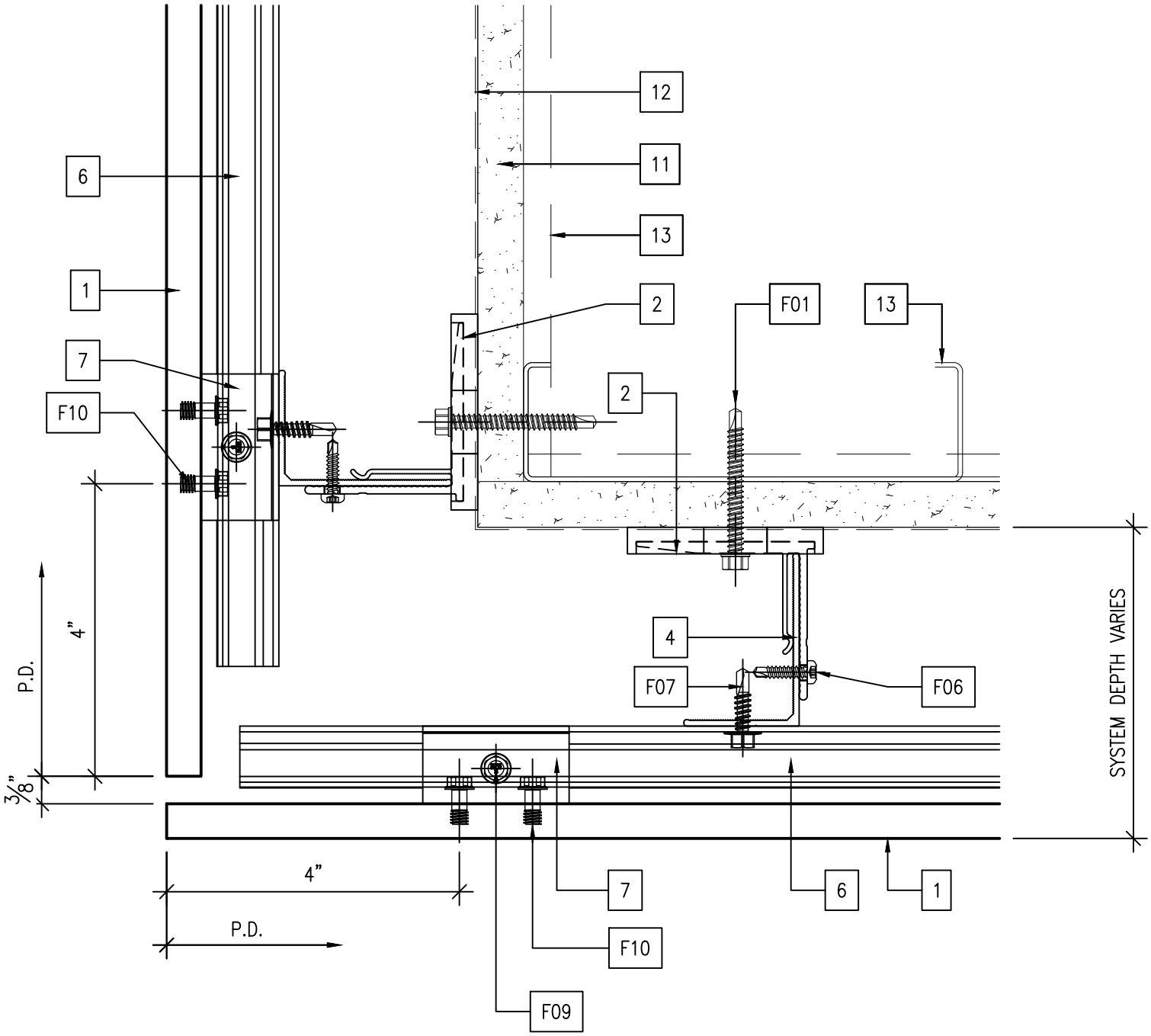
TITLE:	DRAWING #
TYPICAL PANEL TERMINATION AT DISSIMILAR/ADJACENT MATERIAL DETAIL	4
SCALE: 6"=1' | JULY 18, 2019	

AMD - EQUITONE FIBRE CEMENT PANEL SYSTEM
WITH SFS NV3 CONCEALED ATTACHMENT SYSTEM



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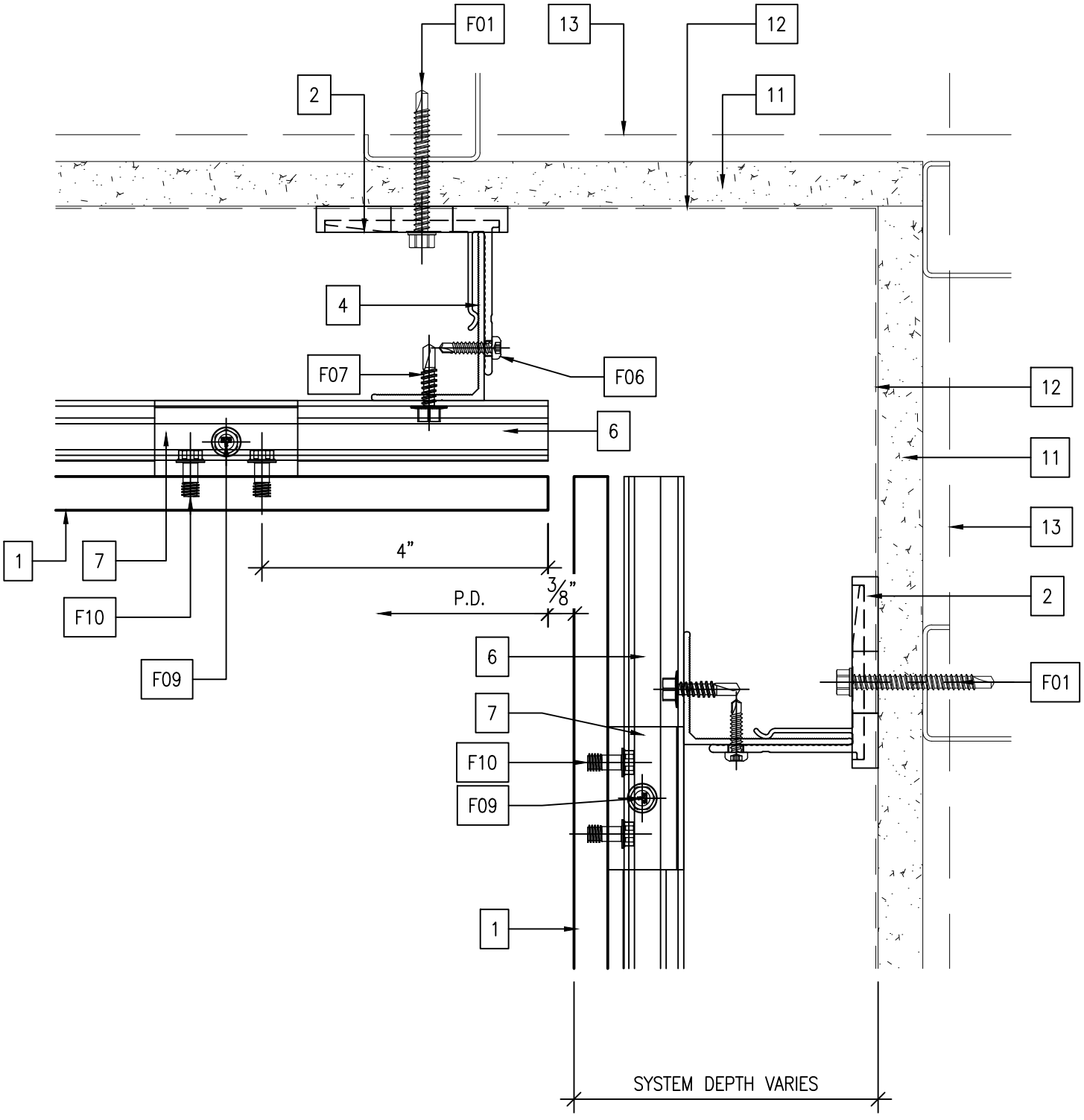
TITLE:	DRAWING #
TYPICAL OUTSIDE CORNER DETAIL	5
SCALE: 6"=1' JULY 18, 2019	

AMD - EQUITONE FIBRE CEMENT PANEL SYSTEM
WITH SFS NV3 CONCEALED ATTACHMENT SYSTEM



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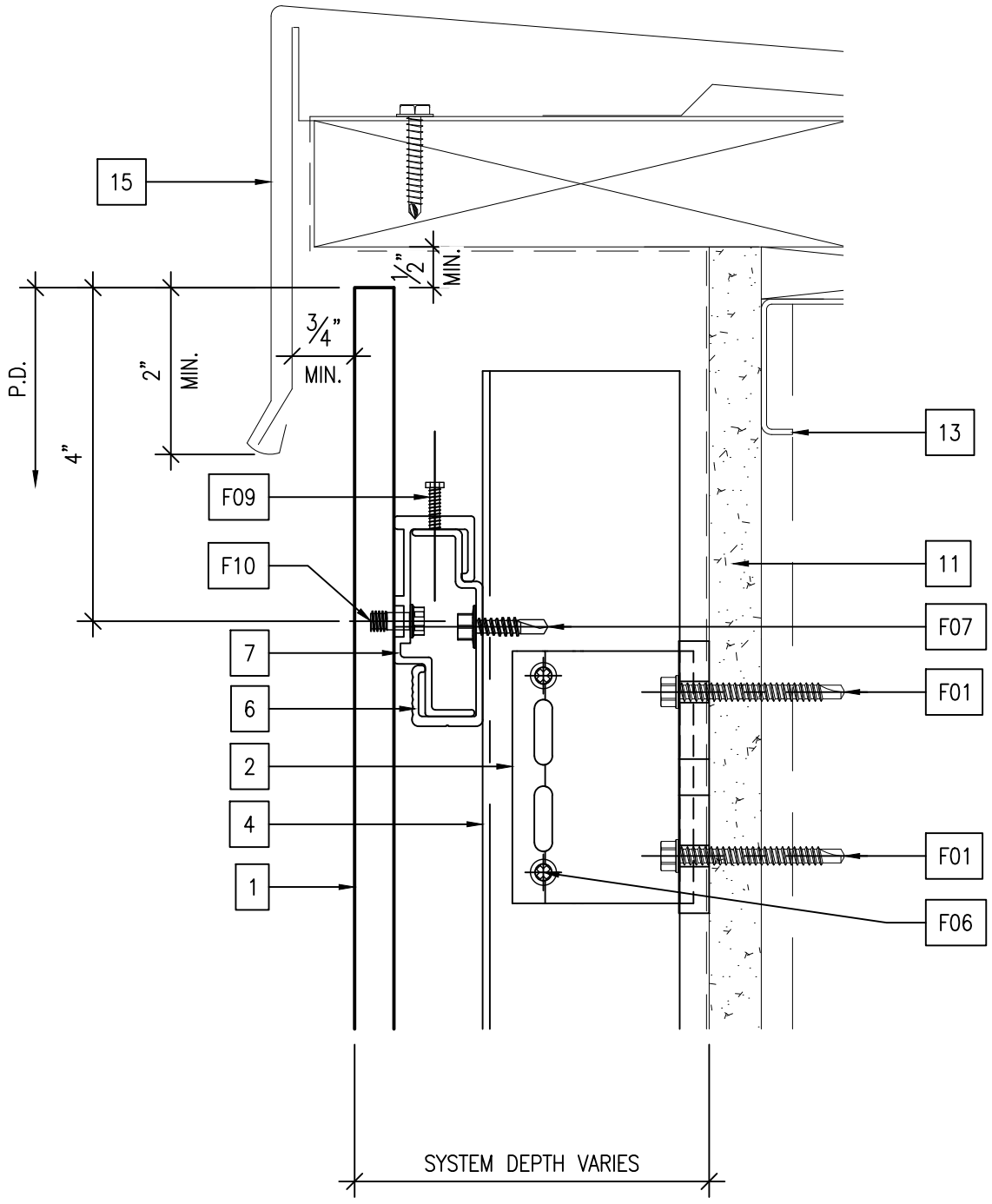
TITLE:	DRAWING #
TYPICAL INSIDE CORNER DETAIL	6
SCALE: 6"=1' JULY 18, 2019	

AMD - EQUITONE FIBRE CEMENT PANEL SYSTEM
WITH SFS NV3 CONCEALED ATTACHMENT SYSTEM



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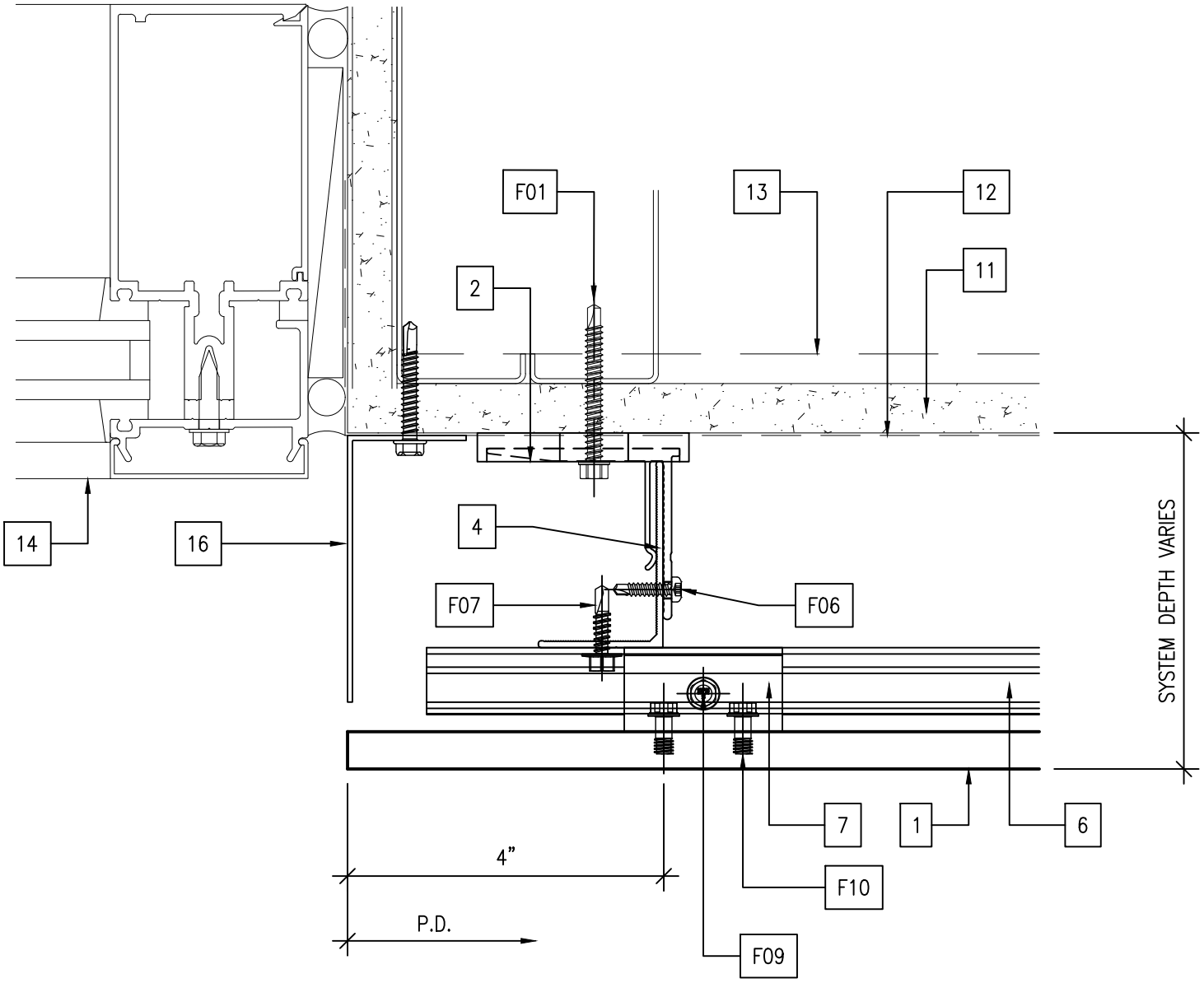
TITLE:	DRAWING #
TYPICAL PARAPET DETAIL	7
SCALE: 6"=1' JULY 18, 2019	

AMD - EQUITONE FIBRE CEMENT PANEL SYSTEM
WITH SFS NV3 CONCEALED ATTACHMENT SYSTEM



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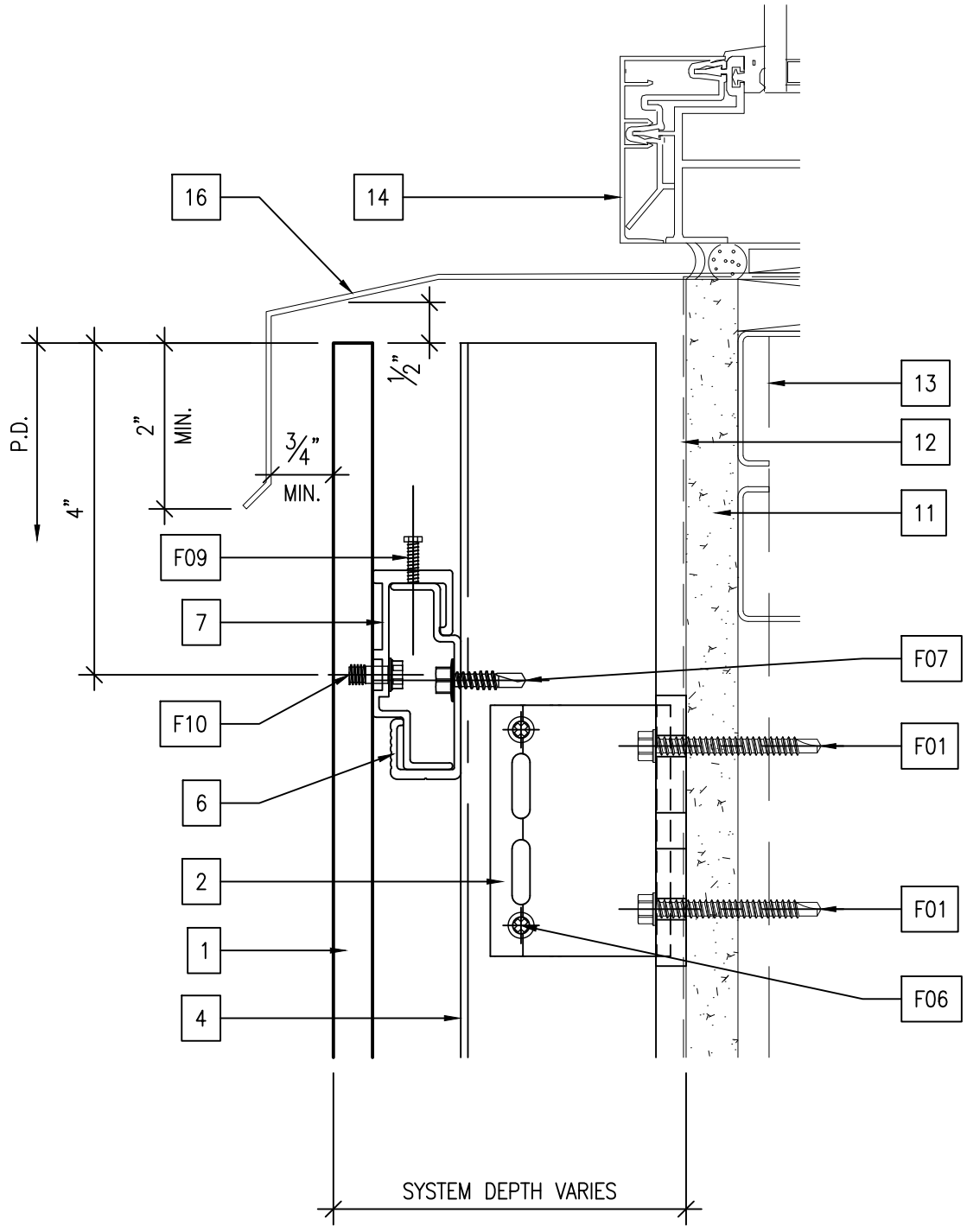
TITLE:	DRAWING #
TYPICAL WINDOW JAM DETAIL	8
SCALE: 6"=1' JULY 18, 2019	

AMD - EQUITONE FIBRE CEMENT PANEL SYSTEM
WITH SFS NV3 CONCEALED ATTACHMENT SYSTEM



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TITLE:	DRAWING #
TYPICAL WINDOW SILL DETAIL	9
SCALE: 6"=1' JULY 18, 2019	