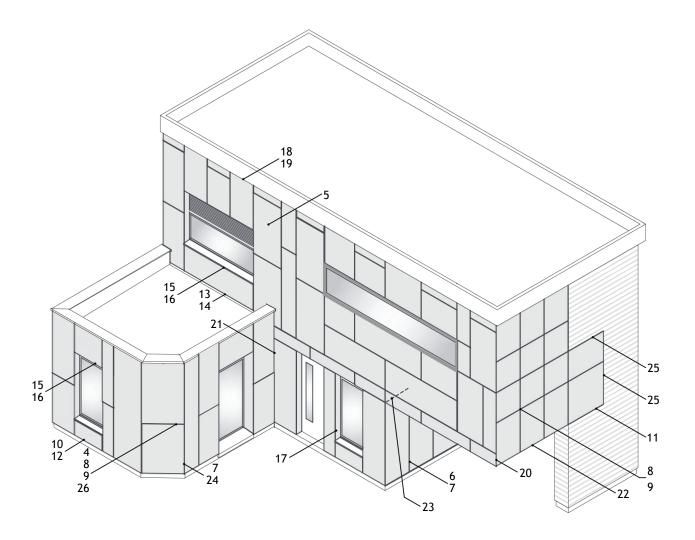
# Combined Manufacturer's High Performance Cementitious Panel Rainscreen Assembly on Steel Stud Construction

- \* 20 Year Cementitious Panel Warranty
- \* NFPA 285 Compliant Assembly



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 in conjunction with EQUITONE, Dorken, SFS and Rockwool material guidelines. 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 the respective manufacturer's technical services for specific projects located in areas in extreme climate zones that may require modifications to these details. ETEX, SA/NV Group, Dorken Systems Inc., Roxul Inc., SFS Group USA Inc. 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 Group, Dorken Systems Inc., Roxul Inc., SFS Group USA Inc. and subsidiary companies accept no liability in respect thereof. Contact the respective manufacturer for additional technical support,

installation guidance, and warranty information.

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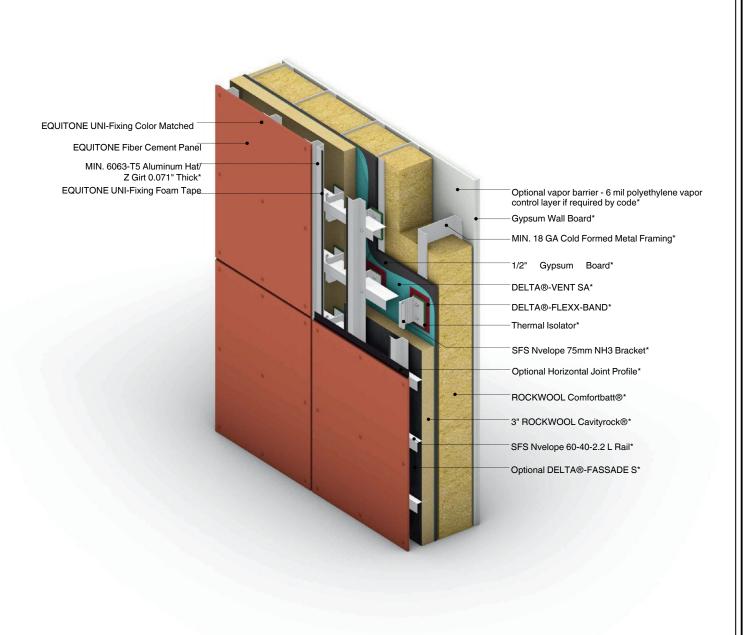






RELEASE-202506	

**INDEX** 



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

DISCLAIMER: THESE DETAILS ARE PROVIDED AS A GUIDELINE FOR PROPER PANEL AND ASSOCIATED COMPONENT INSTALLATION, AND ARE BASED ON INDUSTRY ACCEPTED PRACTICES IN CONJUNCTION WITH EQUITONE, DORKEN, SFS AND ROCKWOOL MATERIAL GUIDELINES. 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 LAVER). CONTACT THE RESPECTIVE MANUFACTURER'S TECHNICAL SERVICES FOR SPECIFIC PROJECTS LOCATED IN AREAS IN EXTREME CLIMATE ZONES THAT MAY REQUIRE MODIFICATIONS TO THESE DETAILS. ETEX, SA/NV GROUP, DORKEN SYSTEMS INC., ROXUL INC., SFS GROUP USA INC. 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 GROUP, DORKEN SYSTEMS INC., ROXUL INC., SFS GROUP USA INC. AND SUBSIDIARY COMPANIES ACCEPT NO LIABILITY IN RESPECT THEREOF. CONTACT THE RESPECTIVE MANUFACTURER FOR ADDITIONAL TECHNICAL SUPPORT, INSTALLATION GUIDANCE, AND WARRANTY INFORMATION.

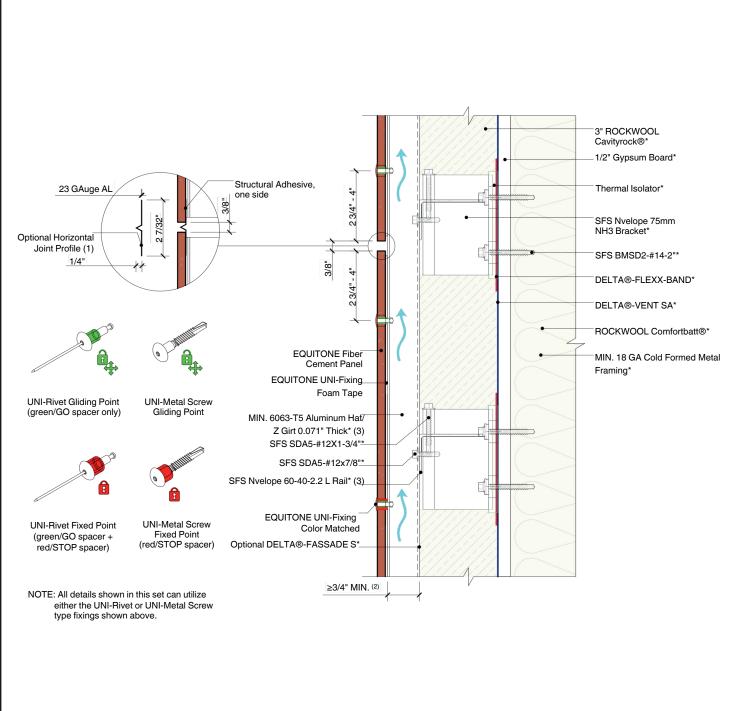






RELEASE:202506

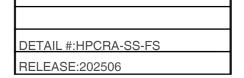
3D ASSEMBLY DETAIL



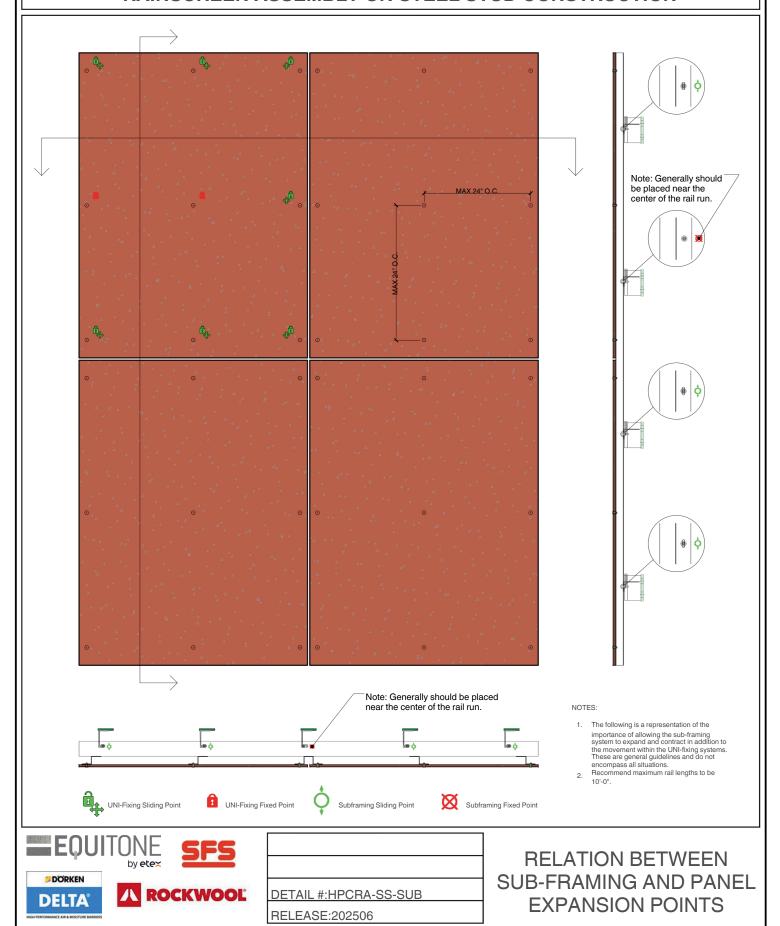
- Flashing used to close the joints may not be thicker as 1/32 in (23 GAuge), including the thickness of any fastener heads
- Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning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

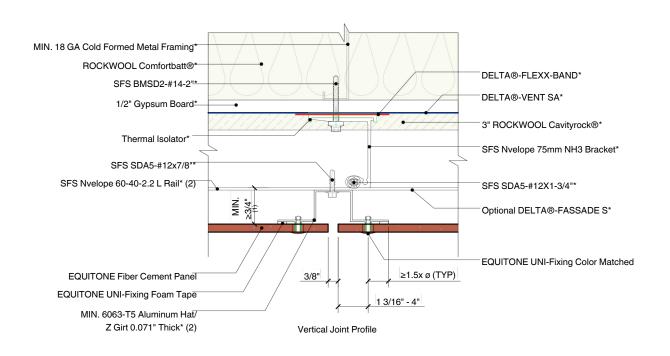


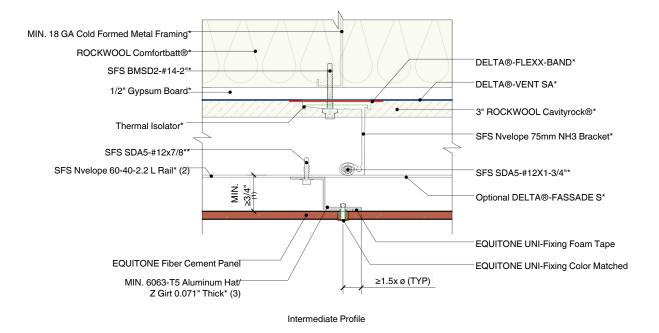




**RELATION BETWEEN FIXED AND SLIDING POINTS** 







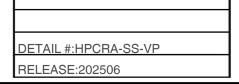
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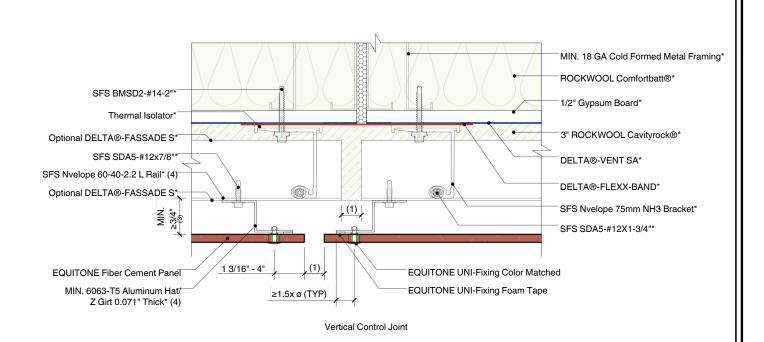
DELTA

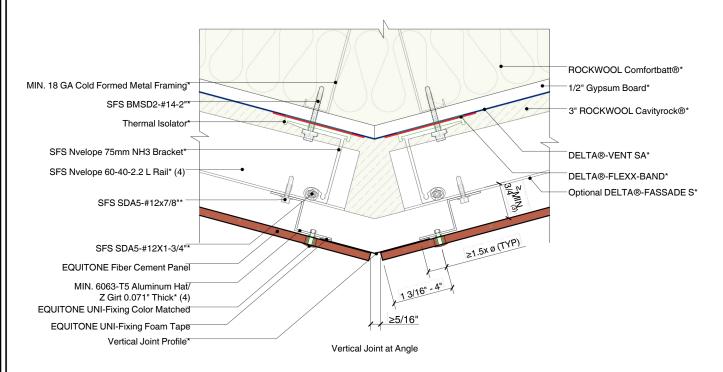






**VERTICAL** PROFILE DETAILS





- The width of the the facade control joint should be equal or greater than the building control joint.

  Flashing used to close the joints may not be thicker as 1/32 in (23 Gauge), including the thickness of any fastener heads.

  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.
- Reach out to manufacturer regarding surface finish options. (\*) symbol represents materials not supplied by EQUITONE

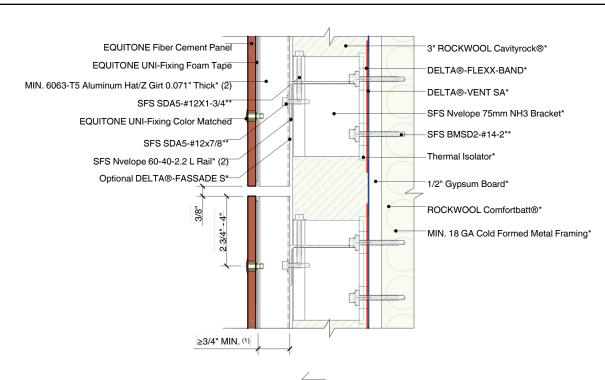


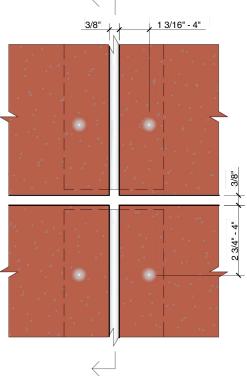




**DETAIL #:HPCRA-SS-VJ** RELEASE:202506

**VERTICAL JOINT DETAILS** 





DELTA

- 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.
- Reach out to manufacturer regarding surface finish options.
  (\*) symbol represents materials not supplied by EQUITONE

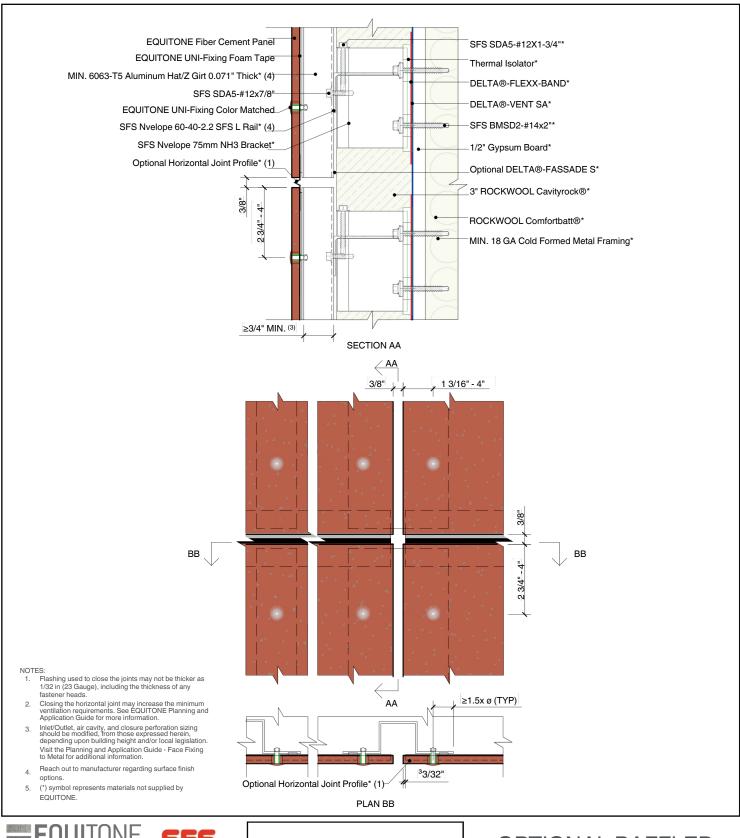






DETAIL #:HPCRA-SS-OHJ RELEASE:202506

**OPEN HORIZONTAL** JOINT DETAILS



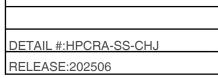


DÖRKEN

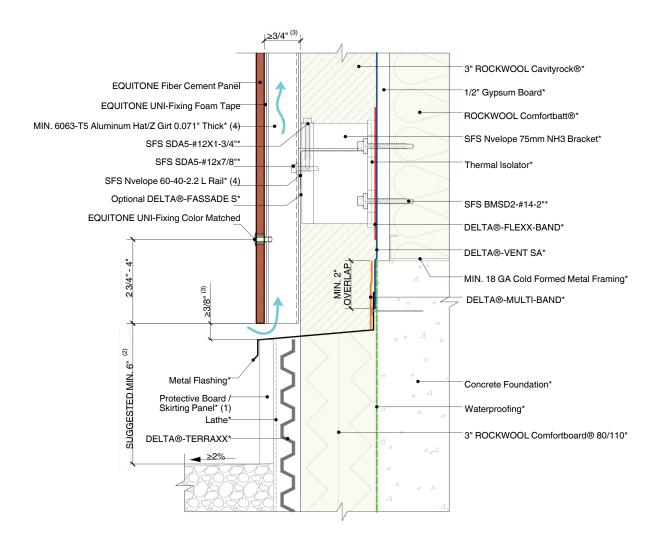
**DELTA** 







OPTIONAL BAFFLED HORIZONTAL JOINT DETAILS



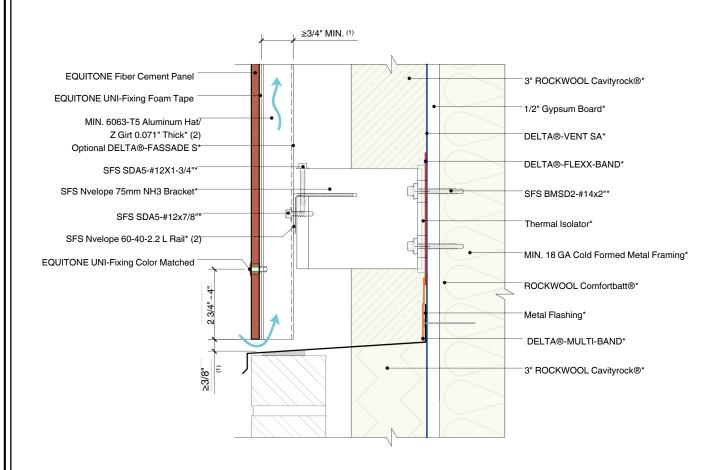
- 1. The skirting board could be concrete, natural stone, render, metal flashing, etc.
  2. A smaller ground clearance is possible, but it may increase the risk of water marks and panel staining caused by splash back.
  3. Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from 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.Reach out to manufacturer regarding surface finish options
- 5.(\*) symbol represents materials not supplied by EQUITONE.







**BASE DETAIL -GROUND LEVEL** 



**DELTA** 

- 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.Reach out to manufacturer regarding surface finish options.

  3.(\*) symbol represents materials not supplied by EQUITONE.

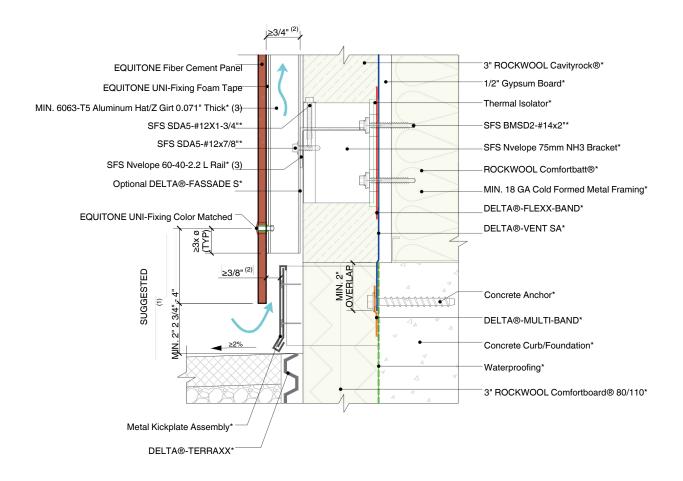






**DETAIL #:HPCRA-SS-BOM** RELEASE:202506

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

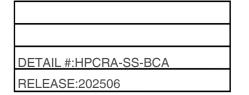


- 1.A smaller ground clearance is possible, but it may increase the risk of water marks and panel staining caused by splash back.
  2.Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.

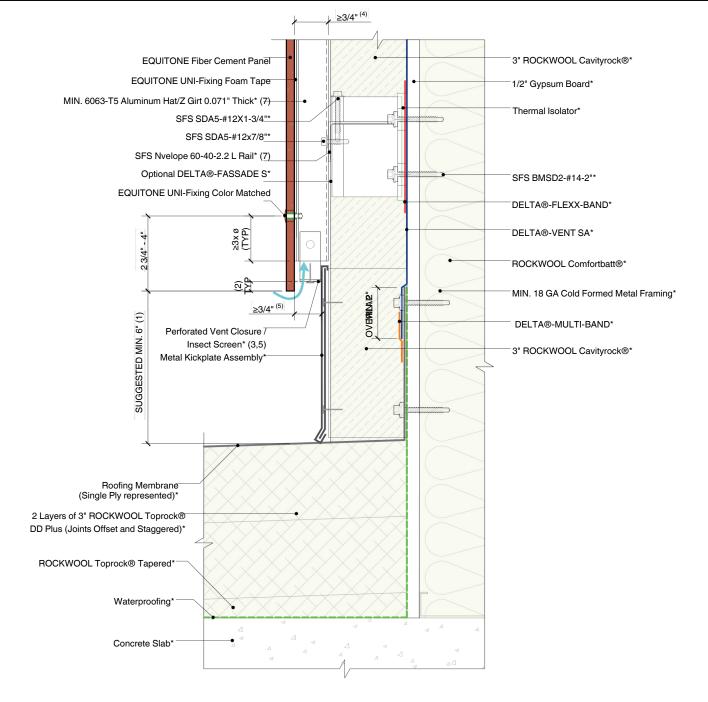
  3.Reach out to manufacturer regarding surface finish options
- (\*) symbol represents materials not supplied by EQUITONE.







**BASE DETAIL -COVERED AREA** 



- 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. Reach out to manufacturer regarding surface finish options.

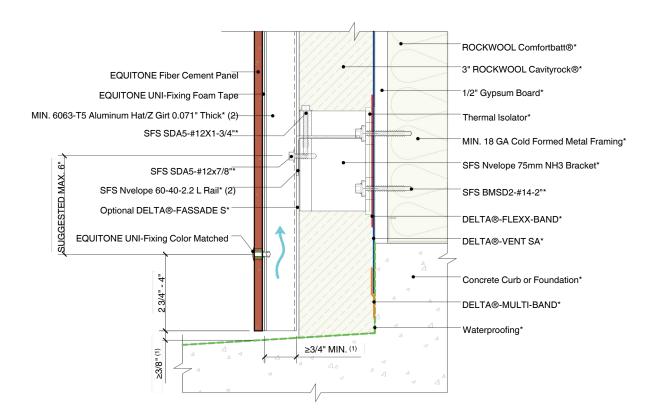
- 8.(\*) symbol represents materials not supplied by EQUITONE.







**BASE DETAIL -FLAT ROOF** 



- Inliet/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.Reach out to manufacture regarding surface finish options.

  3.(\*) symbol represents materials not supplied by EQUITONE.

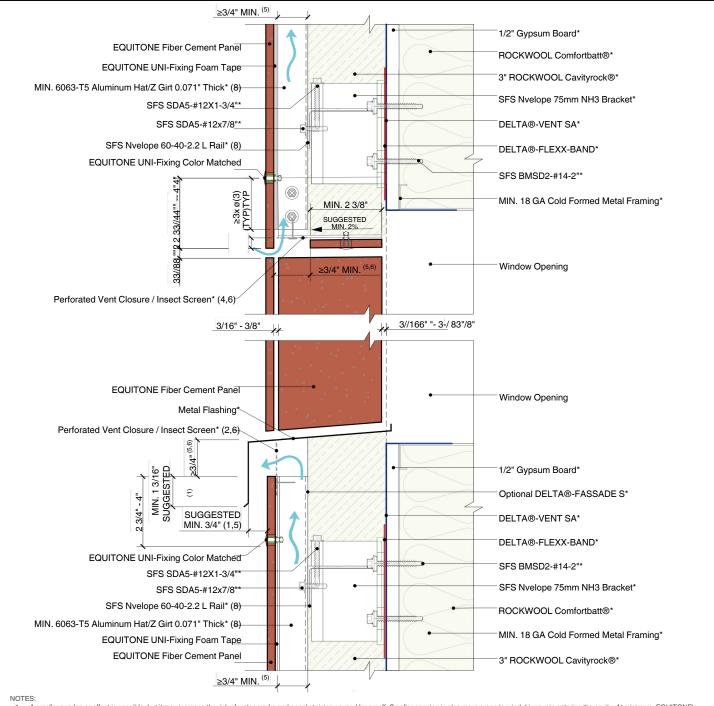






DETAIL #:HPCRA-SS-BB RELEASE:202506

**BASE DETAIL -BALCONY** 



- 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.

- ventilation guidelines must be rollowed.

  The facade panel should preferably overhang more than 1/32 inch (23 Gauge), including the thickness of any fastener heads.

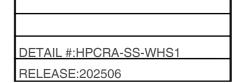
  The facade panel should preferably overhang more than 3/8 inch below the ventilation profile to create a drip edge.

  All closures, trims, screens, etc. should be held off the back of the panel by at least 1/16 inch.

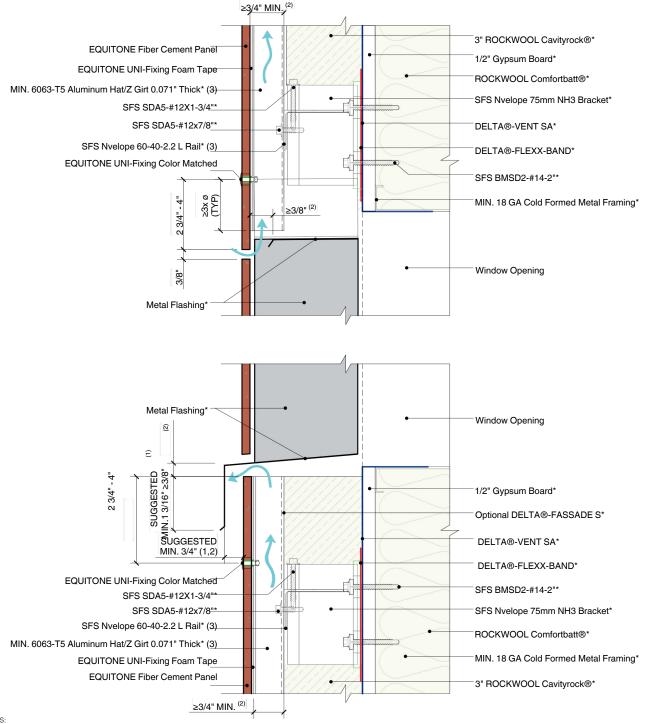
  Intel/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information. When the inlet/outlet is wider than 3/4 inch continuous, 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
- Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous
- Reach out to manufacturer regarding surface finish options. (\*) symbol represents materials not supplied by EQUITONE.







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



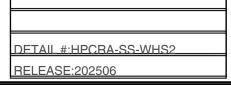
- NOTES
- 1. A smaller overlap or offset is possible, but it may increase the risk of water marks and panel staining caused by runoff. Smaller capping is also more prone to wind driven rain entering the cavity. At minimum, EQUITONE's ventilation guidelines must be followed.
- Inlet/Outlet, air cavity, 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.
- to Metal for additional information.
   Reach out to manufacturer regarding surface finish options
- (\*) symbol represents materials not supplied by EQUITONE



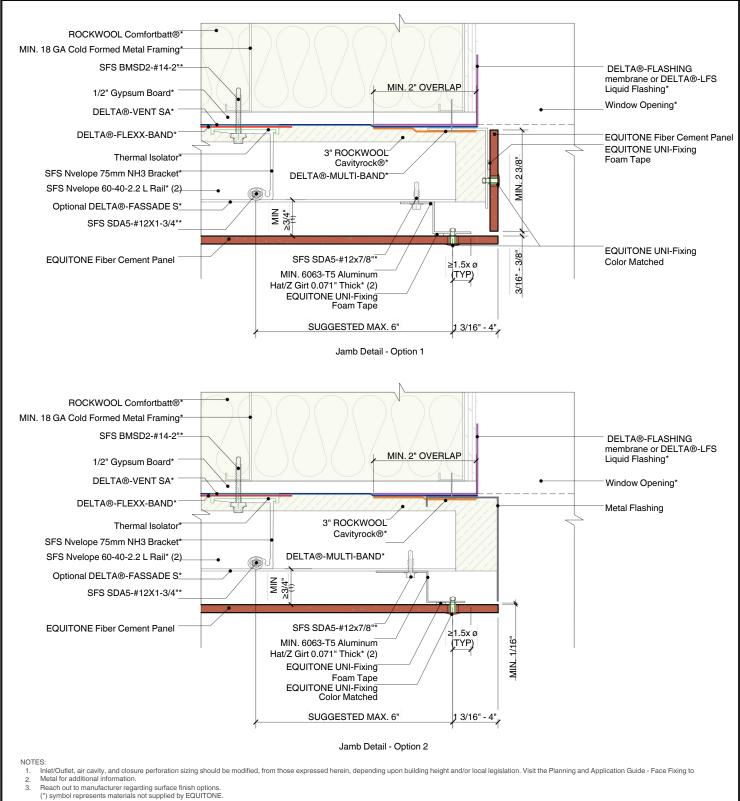








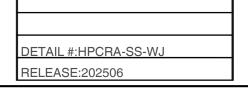
WINDOW HEAD AND SILL DETAILS -OPTION 2



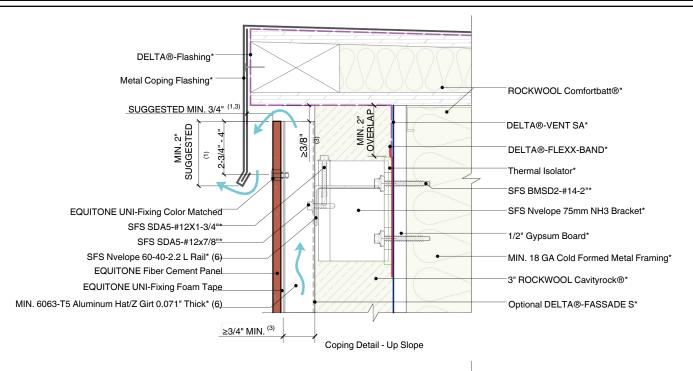


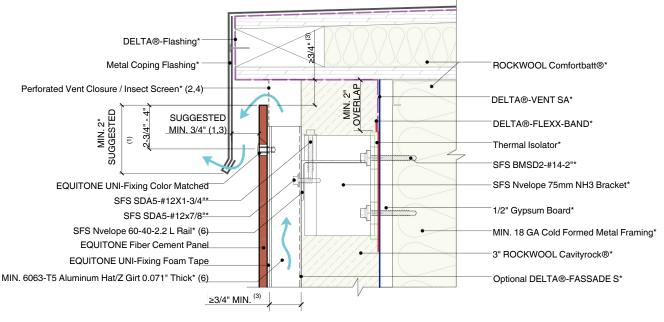






JAMB DETAIL OPTIONS





Coping Detail - Down Slope

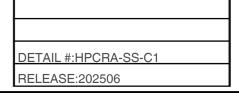
- 1.A smaller overlap or offset is possible, but it may increase the risk of water marks and panel staining caused by runoff. Smaller capping is also more prone to wind driven rain entering the cavity.. At minimum, EQUITONE's ventilation guidelines must be followed.

  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
- 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.Reach out to manufacturer regarding surface finish options. 7.(\*) symbol represents materials not supplied by EQUITONE

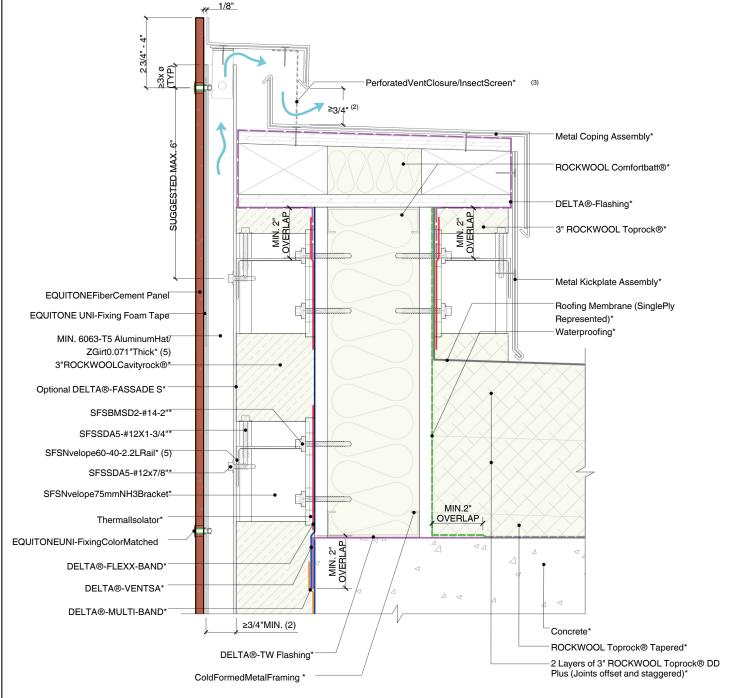








**COPING DETAIL -OPTION 1** 



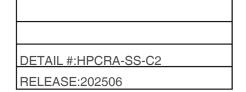
## NOTES

- The following transition from roof to parapet is valid for parapets under 24" in height. Otherwise see detail EQ-EF-HG-SS-BFR.
- 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.
- 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.
- Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous. Reach out to manufacturer regarding surface finish options.

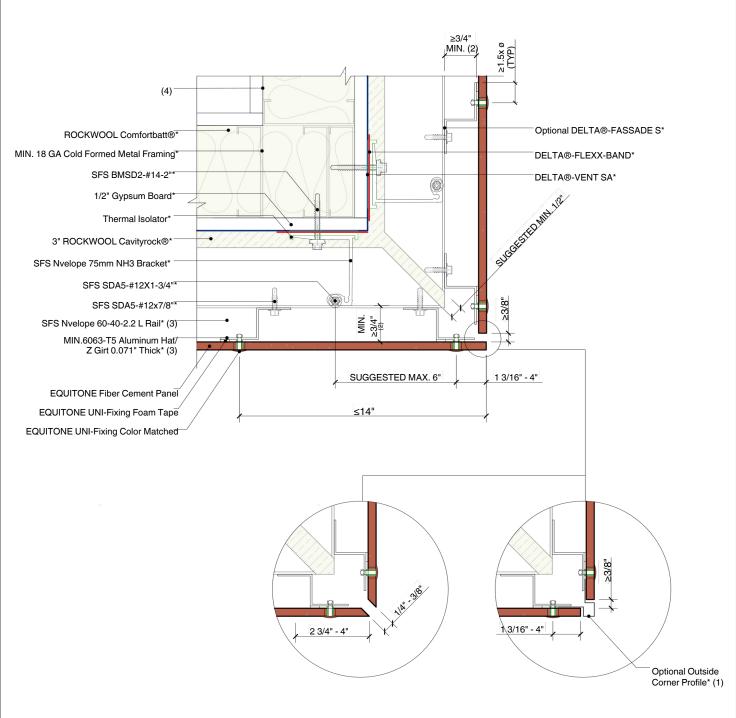
(\*) symbol represents materials not supplied by EQUITONE







**COPING DETAIL -OPTION 2** 



DELTA

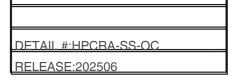
- Flashing used to close the joints may not be thicker as 1/32 in (23 GAuge), including the thickness of any fastener heads.
  Inlet/outlet, air cavity, and closure perforation sizing will vary, from those expressed herein, depending upon the distance between inlet/outlet or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.
- Reach out to manufacturer regarding surface finish options.

  Optional vapor barrier 6 mil polyethylene vapor control layer if required by code.

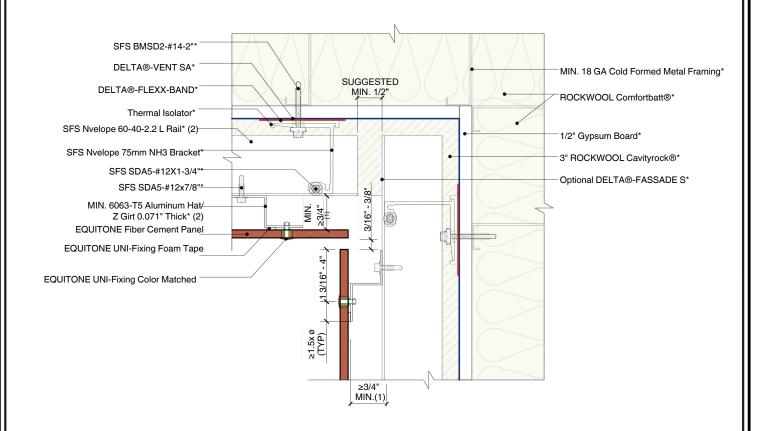
  (\*) symbol represents materials not supplied by EQUITONE.







**OUTSIDE CORNER DETAIL** 



- 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.

  Reach out to manufacturer regarding surface finish options.

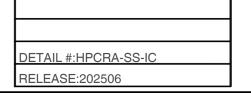
  (\*) symbol represents materials not supplied by EQUITONE.



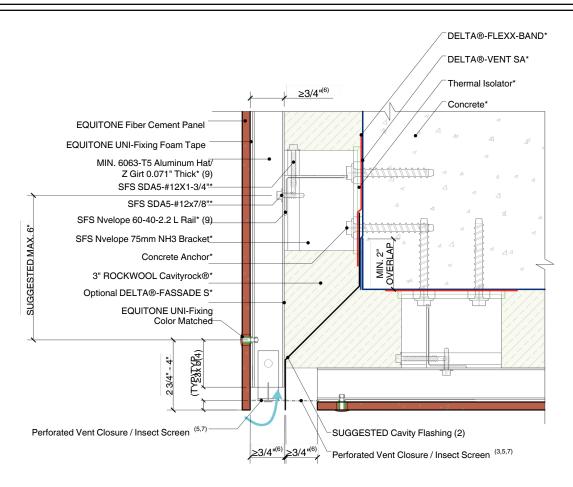


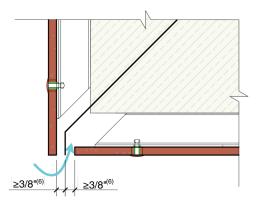






**INSIDE CORNER DETAIL** 





- For soffit conditions, rivet spacing should be limited to 16 inch on center and should be confirmed through project engineering.

  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.
- Flashing used to close the joints may not be thicker than 1/32 inch (23 Gauge), including the thickness of any fastener heads. The facade panel should preferably overhang more than 3/8 inch below ventilation profile to create a drip edge.

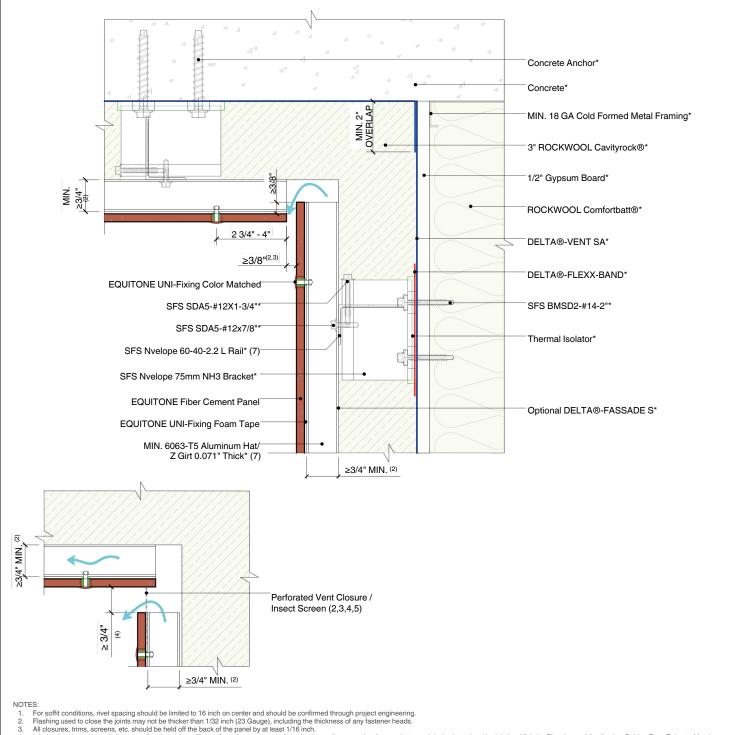
  All closures, trims, screens, etc. should be held off the back of the panel by at least 1/16 inch.
- Inlet/outlet, air cavity, and closure perforation sizing will vary, from those expressed herein, depending upon the distance between inlet/outlet or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.
- 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.
- Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous
- Reach out to manufacturer regarding surface finish options.
   symbol represents materials not supplied by EQUITONE.







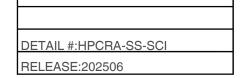
SOFFIT / CEILING **WALL JUNCTION -OUTSIDE EDGE** 



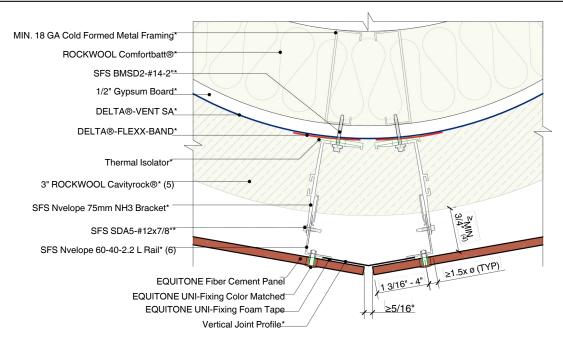
- Inlet/outlet, air cavity, and closure perforation sizing will vary, from those expressed herein, depending upon the distance between inlet/outlet or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.
- When the inlet/outlet is wider than 3/4 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.
- Where a perforated closure is not obstructing the inlet/outlet, the opening should be a minimum of 3/8 inch continuous
- Reach out to manufacturer regarding surface finish options. (\*) symbol represents materials not supplied by EQUITONE



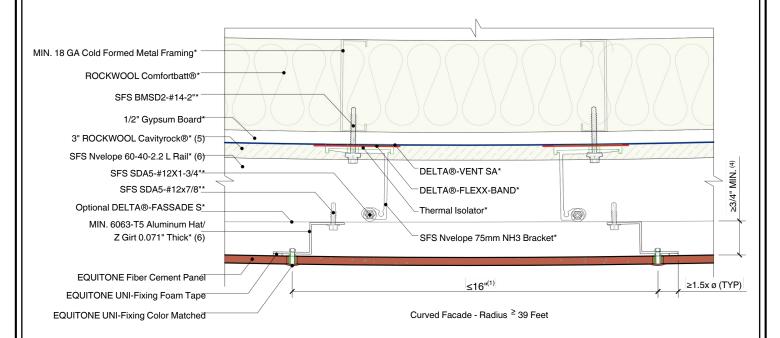




SOFFIT / CEILING **WALL JUNCTION -INSIDE EDGE** 



Segmented Facade - Radius < 39 Feet



- 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. For smaller radii the facade should be executed as segmented facade. Flashing used to close the joints may not be thicker as 1/32 in (23 Gauge), including the thickness of any fastener heads.
- 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.
- Ensure radius does not exceed ROCKWOOL's recommendations for Cavityrock(R). Please reach out to a ROCKWOOL representative for additional information. Reach out to manufacturer regarding surface finish options.

  (\*) symbol represents materials not supplied by EQUITONE.



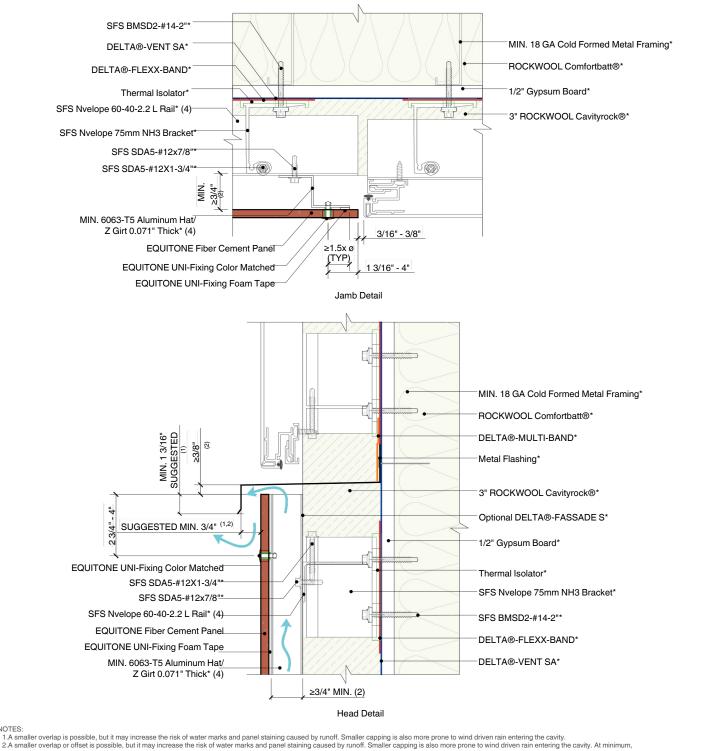
DELTA





DETAIL #:HPCRA-SS-CURVE RELEASE:202506

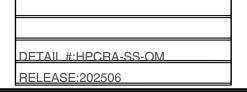
**CURVED FACADE DETAILS** 



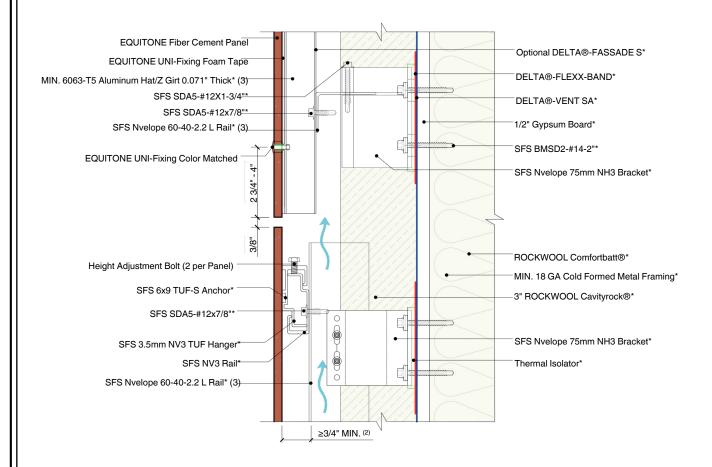
- EQUITONE's ventilation guidelines must be followed.
- 3.Inlet/Outlet, air cavity, and closure perforation sizing should be modified, from those expressed herein, depending upon building height and/or local legislation. Visit the Planning and Application Guide Face Fixing to Metal for additional information.
- 4.Reach out to manufacturer regarding surface finish options. 5.(\*) symbol represents materials not supplied by EQUITONE







JUNCTION WITH OTHER FACADE MATERIAL DETAILS



- 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.Reach out to manufacturer regarding surface finish options. 4.(\*) symbol represents materials not supplied by EQUITONE.







**EXPOSED FASTENER -CONCEALED FASTENER JUNCTION** 

## **EQUIT ON E**

USA/Canada 1731 Fred Lawson Dr. Maryville TN, 37801 Tel: +1 865 268 0654 info.usa@equitone.com

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## Dörken SystemsInc.

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## **ROCKWOOL**

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## SFSGroup USA Inc.

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1045 Spring Street, Wyomissing, PA 19610 Phone: 1-610-376-5751

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