

# INSTALLATION INSTRUCTIONS STONEWOOD CONCEALED FASTENER SYSTEM

Solid Phenolic Core Panels and Concealed Fastening System

# PRODUCT OVERVIEW



Stonewood Panels are solid phenolic core panels for use as open joint exterior cladding in a ventilated facade system.

#### Ventilated Facade

A ventilated façade requires unobstructed continuous air flow for proper performance. The sub-framing used to create the air flow cavity must be installed in a vertical direction. Installation should not allow for standing water to accumulate anywhere on the panel surface. If conditions require battens, weep holes are required.

# INSTALLATION BEST PRACTICES





Minimum distance of 3/8" between panels to accommodate hygrothermal movement.

#### **Single-sided Panels**





Panels are NOT identical on both sides. The front side faces outward (away from the building) and has the removable peel coat. Installers are responsible for making sure that the (front) side is visible and

#### **Panel Repairs**

There is no approved method to repair panels. Damaged panels must be replaced. Contact Stonewood Customer Service for additional information, 262-567-4427.

removing the peel coat AFTER installation.

#### **Field Drilling Required Equipment** Provided by Installer



Available from SFS Intec USA, www.sfsintecusa.com.

# **EXPANSION JOINT REQUIREMENTS**

Stonewood Architectural Panels are designed to be installed on a continuous substructure. Panels are not to installed such that they span areas where there is a discontinuity in the substructure, such as vertical or horizontal expansion joints. It is the responsibility of the project designer to ensure that panels do not span these



#### Scan to Review Technical Documents Online:

- Handling and Storage
- Installation Equipment
- Required Cutting Procedures

substructure discontinuities.

Cleaning and Maintenance







# STONEWOOD CONCEALED FASTENER SYSTEM

# PARTS PLACEMENT OVERVIEW



PARTS OVERVIEW



XZB Vertical Z Channel



CFRM Horizontal Rail



CFB01 Black Rail Cover



CFCAC Panel Adjustable Clip Includes set screw and adjustment bolt.



**CFCS** Panel Clip



CFF5 Panel Clip Fastener





# CLIP PLACEMENT COMMON PANEL SIZES

Panel Size: 48" x 96"



Panel Size: 48" x 48"







# CLIP PLACEMENT COMMON PANEL SIZES CON'T

Panel Size: 8 - 20" x 96"



#### Panel Size: 4 - 8" x 96"







# CLIP PLACEMENT COMMON PANEL SIZES CON'T

#### Panel Size 8 - 20" Vertical Orientation



#### Panel Size 3 - 8" Vertical Orientation







### STEP 1: PREP STAGE

#### **Field Drilling**



#### **Required Clip Installation Sequence**



- 1. Install CFCAC on the outside corners of the panel and secure with 2ea CFF5 into the pre-drilled 5mm pilot holes
- 2. Hang panel on rail and use the leveling screw on **each** corner to level the panel
- 3. Ensure panel is level
- <sup>1</sup> 4. After leveling, use set screw to secure **one** of the CFCAC clips to the rail, acting as a fixed point
- 5. Tighten to min. 23 max. 27lb-in torque



#### All remaining clips are CFCS. Secure clips with 2ea. CFF5.

# **IMPORTANT NOTE**

Install one (1) set screw per panel to create a fixed point and accommodate hygrothermal panel movement. Do NOT install two (2) set screws, this can lead to damaged panels.





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# **STEP 2: WRB INSTALLATION**





2a: Install black, UV resistant water resistive barrier (WRB)

# STEP 3: VERTICAL RAIL XZB PLACEMENT



3a. Install vertical XZB rails a maximum of 24" on center

# STEP 4: HORIZONTAL RAIL CFRM INSTALLATION



# **IMPORTANT NOTE**

Horizontal guide rails must be installed with a maximum coplanar deviation of 1/4" per 20'. Note: The actual number of fastening points and distance between supports must be verified by a building professional for wind loads as per local building code.

4a. Install FIRST set of CFRM rails according to clip locations on the back of the Stonewood panels





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# STEP 5: BOTTOM PANEL INSTALLATION



- 5a. Hang panel with installed clips on CFRM rail
- 5b. Place CFB01 over CFRM rail between panels to create a black reveal between the open joint gaps
- Note: install a black WRB/Air Barrier if total back reveal is required
- 5c. Level each panel using the leveling screws on the CFCAC clips
- 5d. After leveling, use **set screw** to secure **one** of the CFCAC clips to the rail, acting as a fixed point
- 5e. Tighten to min. 23 max. 27lb-in torque

# STEP 6: ADDITIONAL CFRM RAIL INSTALLATION



6a. Install the next set of CFRM rails according to the clip locations on the back of the Stonewood panels

# **IMPORTANT NOTE**

Horizontal guide rails must be installed with a maximum coplanar deviation of 1/4" per 20'. Note: The actual number of fastening points and distance between supports must be verified by a building professional for wind loads as per local building code.







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# **STEP 7: PANEL INSTALLATION**



- 7b. Place CFB01 over CFRM rail between panels to create a black reveal between the open joint gaps Note: install a black WRB/Air Barrier if total back reveal is required
- 7c. Level each panel using the leveling screws on the CFCAC clips
- 7d. After leveling, use set screw to secure one of the CFCAC clips to the rail, acting as a fixed point

#### 7e. Tighten to min. 23 - max. 27lb-in torque

# STEP 8: FINISHED WALL



8a. The finished wall should have unobstructed continuous air flow for proper performance

8b. Installation should not allow for standing water to accumulate anywhere on the panel

# STEP 9: COMPLETED WALL



Terminate top of run with coping by others, extending a min. of 3/8" past panel face



9a. Where required, terminate the top of runs with coping or flashing by others, extending a minimum of 3/8" past the panel face

For window and penetration details, visit Stonewoodpanels.com

