



FACADESXi

DAFS- SOFFIT

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FACADESXi DIRECT APPLIED (DAFS) –SOFFIT

CSI SECTION 07 24 23 - Direct-Applied Finish System

This specification is to assist in correctly specifying the FACADESXi Direct Applied over Soffits (DAFS-Soffit), products and installation and should be used in conjunction with Assembly Details. The assembly includes a reinforced base coat, optional primer and acrylic finish over code compliant sheathing.

The specifier MUST edit these specifications to fit the needs of each specific project and the design is the responsibility of the specifier to determine if a product is applicable.

FACADESXi Wall systems provides these specifications, Typical Assembly details, and product data sheets for use in the design of the project.

FACADESXi is not liable for any errors or omissions in design details, structure capability, attachment details, or shop drawings. See Full Disclaimer at end of document.

Although not a part of the Assembly, flashings and sealants are elements of all exterior wall assemblies and must be designed, integrated and installed, in conjunction with the coatings.

Construction Types: I-V, Fire Rated and Non-combustible, Commercial and Residential Non-combustible and Fire Rated construction: ensure that the system chosen has been tested and is compliant with the necessary tests for these assemblies.

LIMITATIONS

- Minor crack is possible at cement board joints.
- Ghosting of fasteners is possible during certain temperatures and humidity.
- Cement board surface must be in plane for the for best aesthetics. Outside of the limitations may cause visible irregularities in the finished wall surface. Heavy texture finishes and or 2 layers of base coat will minimize these effects. The base coat cannot be used in thicker applications to level out the cement board.
- For use on vertical above grade services. Do not use below grade or horizontally.
- Control joints and expansion joints are required as listed in the specifications.
- Maintenance is Required with periodic cleaning, repair of cracks and impact damage, if they occur, and/or recoating to enhance appearance of weathered finish.
- Dark colors show more imperfections in the cement board surface compared to light colors. With Foam Shapes, select a color with a light reflectance value (LRV) of 20 percent or higher. EPS has a service temperature limitation of approximately 160 degrees F (71 degrees C).

Contact FACADESXi technical services to assist in appropriate product selection.

Notes to Specifier are in White Italics and should be deleted before publishing.

[Select or Delete] Assembly Options. Choose one and delete the remaining options. Delete the brackets and un-bold the selected option(s).

<Text> Include the appropriate information.

Primer is an Optional Layer that will enhance the color uniformity of the acrylic finish coat, especially in hot weather.

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Materials and installation of an exterior DAFS assembly including: reinforced base coat , [primer] and 100% acrylic textured finish coat installed over protected soffits.

1.2 RELATED SECTIONS

- A. Section 06 16 00 Sheathing
- B. Section 09 21 16 Gypsum Board Assemblies

1.3 REFERENCES

- A. ASTM C1177 Specification for Glass Mat Gypsum for Use as Sheathing
- B. ASTM C1325 Type A Exterior cement-board
- C. ASTM C931 Exterior Soffit Board

1.4 SUBMITTALS

- A. Submit under the provisions of Section [01 33 00]
- B. Product data on assembly materials, including specifications, assembly details, installation and warranty information.
- C. Shop drawings to be provided by the subcontractor.
- D. Samples: two 6 inches by 6-inch finish coat sample per designers' request

1.5 DESIGN CRITERIA

- A. **Moisture / air control**
 - 1. The soffit must be considered protected, unprotected soffits will require a water resistive barrier.
 - 2. Soffit vents are per the project details.
- B. **Fire Rated Assemblies / Non-combustible Assembly**
 - 1. Ensure that the assembly complies with an associated UL assembly, Fire rated assembly, Non-combustible, NFPA 285 tested, or listed in the code compliance report.

NOTE TO SPECIFIER: It is not the responsibility of the contractor to determine the placement of control and expansion joints or their design. The project designer must determine the placement and size of all joints.

- C. **System Joints**
 - 1. Locate control joints in the sheathing per the sheathing manufacturer.
 - 2. Expansion joints are required at building expansion joints, wood framed floor lines and where structural

- movement is anticipated. Locations must be called out in construction drawings.
3. Accessories are required at sheathing board terminations.

1.6 QUALITY ASSURANCE

- A. **Manufacturer**
 1. Coating products have been installed for over 20 years on over 10 million square feet.
- B. **Applicator**
 1. Listed by FACADESXi Wall Systems. Licensed, insured and engaged in application of DAFS coatings for a minimum of 3 years.
 2. Employ mechanics who are skilled and experienced in Coatings applications and knowledgeable in the FACADESXi Coatings installation.
- C. **Conform to all applicable building code requirements.**
- D. **Construct one sample panel<SIZE> in the field for each color and texture, using the same methods to be used in the actual construction. Maintain on jobsite.**
- E. **Third party inspection where required by code or contract documents, are to be contracted by the owner. Inspections are not performed by the coating's manufacturer.**

1.7 PERFORMANCE CRITERIA

- A. **Lamina/Coatings: In compliance with International Code Council AC235 Acceptance Criteria For Exterior Finish Systems Coating Tests.**

1.8 DELIVERY/STORAGE/HANDLING

- A. **Deliver, store and handle products per product data and under Section []**
- B. **Deliver FACADESXi materials in original unopened packages with labels intact.**
- C. **Protect FACADESXi materials during transportation and installation to avoid physical damage.**
- D. **Protect Portland cement-based material (bag products) from moisture and humidity. Store under cover and off the ground in a dry location.**
- E. **Store FACADESXi materials in cool, dry place, out of direct sunlight, protect from freezing.**
- F. **Store insulation boards in original packaging, flat and out of heat and direct sunlight.**

1.9 PROJECT CONDITIONS

- A. **Ambient and surface temperature must be above 40 degrees F during application and for 24 hours after application of FACADESXi materials.**
- B. **Provide supplementary heat /shading for installation, if necessary, to maintain minimum or maximum allowable temperatures.**
- C. **Do not install coatings in temperatures above 100 F.**
- D. **Protect surrounding areas and adjacent surfaces from application of materials.**

1.10 COORDINATION AND SCHEDULING

- A. **Interior drywall, all floor, roof construction and other work that imposes dead loads on the walls should be completed prior to the DAFS to prevent excessive deflection and help prevent cracking at the board joints.**
- B. **Coordinate and schedule installation of FACADESXi with related work; windows, doors, flashing, AC units, foundation waterproofing, roofing, trim, flashing, and joint sealers; to prevent water infiltration behind the system.**
- C. **Protect sheathing per industry and/or sheathing manufacturer's instructions.**

- D. Install sealant immediately after base coat has dried, do not install sealant to finish coat.
- E. Attach penetrations through the Board per FacadesXi Details.

1.11 WARRANTY

- A. Provide FACADESXi limited material warranty under project provisions. This Assembly is warranted for materials only of the Base Coat, reinforcing mesh and finish coat. For a full Assembly Warranty - See WaterShield-CB.
- B. See Facade Warranty Technical Document for specific warranties available.

PART 2 - PRODUCTS

2.1 MANUFACTURER

FACADESXi, 15262 Capital Port, San Antonio TX 78249 | 1.800.611.6602 | www.FACADESXi.com

2.2 SYSTEM/MATERIALS

- A. System: DAFS-Soffit: fiberglass mesh reinforced base coat] [primer], acrylic integrally colored finish coat installed over protected Soffit Sheathing.
- B. Materials

- 1. Coating / Lamina

- a. Cement Board Joints

- 1) 4" Xi-Mesh Standard Reinforcing Mesh: 4.2 oz/ yd² open weave glass fiber coated reinforcing mesh.
- 2) Xi-Dry Acrylic Base Coat or Xi-Acrylic Base Coat: Dry polymer containing Portland cement mixed with water in the field or 100% acrylic base coat mixed with Portland cement in the field.

- b. Base Coat: (choose one)

[Xi-Dry Acrylic Base Coat or Xi-Acrylic Base Coat: Dry polymer containing Portland cement mixed with water in the field or 100% acrylic base coat mixed with Portland cement in the field.]

- c. Reinforcing Mesh: (choose one)

[Xi-Mesh Standard Reinforcing Mesh: 4.2 oz/ yd² open weave glass fiber coated reinforcing mesh.]

[Xi-Mesh 6: 6 oz/ yd² open weave glass fiber coated reinforcing mesh.]

Specifiers note: the use of primer will enhance the color uniformity of the acrylic finish coat, especially in hot weather.

- 2. [Xi-Primer (OPTIONAL PER SPECIFIER): 100% Acrylic tintable primer]

- 3. Xi-Textured Acrylic Finish Coat

- a. 100% Acrylic polymer, Dirt Pick up resistant textured finish coat water based acrylic coating with integral color and texture

- b. Color:

- c. Texture: Xi-Smooth, XI- Ultra Fine Sand .75 Xi-Fine Sand 1.0 Xi-Medium Sand 1.25 Xi Coarse Sand 1.5 Xi-Fine Swirl 1.5 Xi- Coarse Swirl 2.0

PART 3 - INSTALLATION/EXECUTION

3.1 EXAMINATION

- A. **Verify the following:**
1. Substrate is allowable and code compliant.
 2. Surfaces must be free of mildew, dirt, efflorescent, oils, damage deterioration or any foreign materials.
 3. Surfaces must be free from excessive moisture; moisture content should be recorded before installation of the water barrier materials.
 4. Openings, Roofs, terminations have been properly flashed.
- B. **Substrate – Fire Rated wall should be per the assembly - Choose one**
[½” minimum Exterior Glass mat gypsum Sheathing complying with ASTM C1177]
[½” minimum Exterior fiber reinforced cement sheathing complying with ASTM C1325]
- D. [½” minimum Exterior Soffit Board complying with ASTM C931
[Other substrate, or Painted as approved by Facades XI]
- C. **Unsatisfactory conditions shall be corrected before the installation of any FACADESXi System materials. The contractor must notify the general contractor and/or owner and /or architect of all discrepancies. Do not proceed with until conditions are resolved.**

3.2 PREPARATION

- A. **Framing, Sheathing, Substrate**
1. Sheathing must be installed per the applicable manufacturer /industry standards.

3.3 APPLICATION

- A. **Mixing**
1. Mix each product in accordance with the most current product datasheet.
 2. No additives are permitted to any components unless specifically approved by FXI.
- B. **Accessories**
1. Install Casing Bead, Trim accessories, and Expansion joints in accordance with the Project details and board manufacturer’s instructions.
- C. **Coatings**
1. Cement Board
 - a. At every cement board joint, apply Xi-Base coat to each side a minimum of 2” to each side of the joints, while the base coat is wet, embed 4” strips of Xi-Mesh and allow to dry.
 2. Apply mixed Xi-Base coat to the entire surface of the sheathing with a stainless-steel trowel to a minimum thickness of 1/16” thick. A double pass may be necessary depending on the surface of the sheathing.
 3. Immediately embedded Xi-Mesh into the wet base coat and trowel it from the center to the edges completely encapsulating the mesh.
 4. Lap a minimum of 2-1/2” at fiberglass mesh edges and over accessory products and ensure that the reinforcing mesh is continuous at corners, free of wrinkles and no mesh color is visible. It is possible that some texture may be seen through the base coat, if the texture cannot be felt.
 5. If required to achieve a minimum 1/16” total base coat thickness, a second layer of base coat should be installed after the first coat has dried such that it is not damaged during the second application (typically 8-10 hours).

- 6. Double wrap all inside and outside corners with Xi-Mesh. If no accessory corner bead is being used.
- 7. Allow the base coat to completely dry before installation of the primer/finish coat.
- D. Apply primer to the base coat per the product datasheet.
- E. Apply Selected Finish coat per the product datasheet.

3.3 QUALITY CONTROL

- A. The contractor is responsible for the proper application of the FACADESXi products.
- B. FacadesXi is not responsible for on-site inspections, if inspections are required, the owner must engage a third-party inspector.

3.5 CLEANING

- A. Clean under the provisions of Section [01 74 00]
- B. All excess materials must be removed from the project siter per the project Provisions
- C. Clean adjacent surfaces of excess materials or debris.

3.6 PROTECTION

- A. Protect installed materials under provisions of Section [01 74 00]

END OF SECTION

Disclaimer prepared in good faith based on the information available at the time of publication.

All information contained in this specification conforms to standard detail and product recommendations for the installation of FACADESXi products and should be used for guidance only. There may be additional information and/or equivalent means of installation that are not referenced in FACADESXi's specifications. All FACADESXi products shall be installed in accordance with FACADESXi product datasheets and all applicable building codes and industry standard practices.

The design, engineering and final details incorporating any FACADESXi product are the sole responsibility of the project design professional. FACADESXi is not responsible for determining the acceptability and/or applicability of any FACADESXi product for any specific project or condition. FACADESXi disclaims all liability for improper installation, workmanship, or design by a third-party. EXCEPT FOR ANY EXPRESS REPRESENTATIONS AND WARRANTIES BY FACADESXi, ALL IMPLIED WARRANTIES OF ANY KIND, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COMPLIANCE WITH LAWS OR GOVERNMENT RULES OR REGULATIONS APPLICABLE TO THE PROJECT, ARE HEREBY DISCLAIMED.

FACADESXi's website should always be consulted for the latest version of any details, specifications and/or product information. Contact FACADESXi for any technical assistance.

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