



SECTION 04850

STONE WALL AND SOFFIT SUPPORT SYSTEM

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Stone Wall and Soffit Support System and accessories necessary for a complete assembly.
- B. Stone panels.

1.2 RELATED SECTIONS

- A. Section 03300 - Cast-in-Place Concrete: Concrete structure and slabs.
- B. Section 03400 – Plant-precast Structural Concrete: Concrete supporting wall
- C. Section 04800 – Unit Masonry Assemblies: Masonry supporting wall
- D. Section 06110 – Rough Carpentry: Wood Frame Support Structure.
- E. Section 05400 - Cold Formed Metal Framing: Secondary support framing supporting metal wall panels.
- F. Section 07200 - Insulation.
- G. Section 07260 - Vapor Barriers.
- H. Section 07270 – Moisture and Air Barriers.
- I. Section 07620 - Sheet Metal Flashing and Trim.
- J. Section 07900 - Joint Sealers: Sealant installation requirements.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Include plans, elevations, and details, size and layout of panels, trim, accessories, supports, and attachments.
- D. LEED Submittals: Provide documentation of how the requirements of Credit will be met:
 - 1. List of proposed materials with recycled content. Indicate post-consumer recycled content and pre-consumer recycled content for each product having recycled content.
 - 2. Product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store materials in dry place, off the ground, where temperature will not exceed 90 degrees F (32 degrees C).
- C. Handle material in manner that will prevent damage to components.

1.5 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.6 WARRANTY

- A. Provide manufacturer's standard 5-year limited warranty.
- B. Provide 5-year installer's warranty against faulty workmanship.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Innovative Building Products, Inc., IBP Fast Track Stone System for Walls and Soffits, (an Acme Brick company) 3024 Acme Brick Plaza; Ft. Worth, TX 76109[HJ1]; Toll Free Tel: (800) 932-2263; Tel: (817) 332-4101; Fax: (817) 332-1406; Email: info@ibpglassblock.com Web Site: www.fasttrackstone.com or www.ibpglassblock.com.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 MATERIALS

- A. Stone Wall and Soffit Support System: Field assembled, 6063-T6 extruded aluminum structural support bracket and clip system for supporting thin stone and masonry wall panels and soffits. Components include:
 - 1. Starter Channels with channel centering cushions and weep holes.
 - 2. Transition Channels with channel centering cushions and weep holes and support clips and clip centering cushions.
 - 3. Top Receiver angle with support clips and clip centering cushions.

- B. Stone Panels: Stone panels kerfed at the top and bottom to suit the support system.
 - 1. Type: Texas Quarries Natural limestone panels.
 - a. Stone Material/Finish:
 - 1) Texas Quarries Limestone Lueders Gray diamond cut finish
 - 2) Texas Quarries Limestone Lueders Gray split face finish
 - 3) Texas Quarries Limestone Lueders Buff Gray diamond cut finish
 - 4) Texas Quarries Limestone Lueders Buff Gray split face finish
 - 5) Texas Quarries Limestone Cordova Cream Gray diamond cut finish
 - 6) Texas Quarries Limestone Cordova Cream Gray split face finish
 - 7) Texas Quarries Limestone Cordova Shell Gray diamond cut finish
 - 8) Texas Quarries Limestone Cordova Shell Gray split face finish
 - b. Panel Size:
 - 1) 16 inches by 24 inches by 1-1/4 inches
 - 2) 16 inches by 24 inches by 1-1/2 inches
 - 3) 8 inches by 24 inches by 1-1/4 inches
 - 4) 8 inches by 24 inches by 1-1/2 inches
 - 5) Custom

- C. Cast Stone Panels: Cast Stone panels kerfed at the top and bottom to suit the support system.
 - 1. Type: Lightweight cast-stone panels.
 - a. Stone Material/Finish:
 - 1) Color and Finish as selected by the Architect from Manufacturers' catalog.
 - 2) Custom color as selected by the Architect.
 - b. Panel Size:
 - 1) 24 inches by 24 inches by 1-1/2 inches
 - 2) 16 inches by 24 inches by 1-1/2 inches
 - 3) 8 inches by 24 inches by 1-1/2 inches
 - 4) 4 inches by 24 inches by 1-1/2 inches
 - 5) Custom as selected by the Architect

- D. Accessories: Provide the following accessories as required for a complete system.
 - 1. Rubber cushion fittings.
 - 2. Plastic Shims.
 - 3. Stainless Steel Screw Fasteners.
 - 4. Closed Cell Backer Rod.
 - 5. Sealant: Tremco Vulkem 116 Sealant,

2.3 FABRICATION

- A. Shop fabricate support system components as required. System shall allow for the free and noiseless vertical and horizontal thermal movement due to expansion and contraction. Buckling of panels, opening of joints, undue stress on fasteners, failure of sealants or any other detrimental effects due to thermal movement will not be permitted

- B. Shop fabricate panel returns in factory with hairline joints to appear as monolithic stone.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until supporting structure has been properly prepared. Backing wall shall comply with the structural guidelines of the Stone Wall and Soffit Support System manufacturer.
- B. Verify that face of backing wall is adequately prepared to act as drainage surface in accordance with the requirements Section 07270.
- C. Notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install supports onto backing wall and/or ceiling with appropriate fasteners in accordance with applicable code and manufacturer's recommendations, plumb and true to line, and shimmed where and as necessary.
- C. Apply cushion fittings to mounting edges of brackets and clips. Set bottom grooves of kerfed stone panels onto bracket cushions. Set cushioned clips into top grooves of panels and tilt into place until panel clip prongs snap secure into bracket prongs.
- D. Assure that openings through masonry supported on system are properly flashed in accordance with Section 07620.
- E. Install transition panels from bottom to top and ending with receiver channels with integrated drip edge at the top of the wall.
- F. Install stone panels to the pattern required. Field cut stone as required for job specific requirements.
- G. Install factory fabricated stone panels returns to the pattern required. Field cut as required for job specific requirements.
- H. Install backer rods in each joint in accordance with the manufacturers printed instructions.
- I. Mask joint edges with tape and install sealant in accordance with the sealant manufacturers printed instructions. Remove tape to clean up edges after sealant has cured.

3.4 ADJUSTING AND CLEANING

- A. Remove and replace panels damaged beyond repair as a direct result of the panel installation.
- B. Repair panels with minor damage as acceptable to the Architect.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Prevent staining of stone from mortar, grout, sealants, and other sources. Immediately remove such materials from stone without damage to the stonework.
- C. Protect base of walls from rain-splashed mud and mortar splatter by means of coverings spread on ground and over wall surface.
- D. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION