

**Section 09200****FINESCREEN 500**

Impact Resistant Cement Board Stucco Wall System

**PART 1 - GENERAL****1.1 GENERAL REQUIREMENTS**

- 1.1.1 Refer to all drawings and other sections of this specification to determine the type and extent of work therein affecting the work of this section, whether or not such work is specifically mentioned herein.
- 1.1.2 System Description: Exterior, non-structural, impact-resistant Cement Board Stucco System consisting of a secondary weather barrier, cement-board (ASTM C1325), fiberglass reinforcing mesh, base coat, and finish coat.
- 1.1.3 Finestone products are listed in this specification to establish a standard of quality. Any substitutions to this specification shall be submitted to and receive approval from the Architect at least 10 days before bidding. Proof of equality shall be borne by the submitter.
- 1.1.4 The system type shall be Finescreen 500 Cement Board Stucco System as manufactured by Finestone, Jacksonville, Florida.

**1.2 SCOPE OF WORK**

- 1.2.1 The Contractor shall provide all materials, labor and equipment required to apply the Finescreen 500 Cement Board Stucco System and related work necessary for the proper completion of the operation.
- 1.2.2 The following related work is specified under other sections of these specifications:
  - A. Section 05400 Cold-Formed Metal Framing
  - B. Section 06110 Wood Framing
  - C. Section 07195 Air Barriers
  - D. Section 07620 Sheet Metal Flashing and Trim: Perimeter flashings
  - E. Section 07900 Sealants
  - F. Section 09100 Metal Support Systems
  - G. Section 09250 Gypsum Board

**1.3 REFERENCES**

- 1.3.1 References
  - A. ASTM C150 Specification for Portland Cement.
  - B. ASTM D1682 Test for Break Load and Elongation of Textile Fabrics.
  - C. UL 723, ASTM E84 Tests for Surface Burning Characteristics of Building Materials
  - D. ASTM G23 Operating Light and Water Exposure Apparatus (Carbon-Arc Type) for Exposure of Non-metallic Materials
  - E. ASTM G53 Operating Light and Water Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Non-Metallic Materials

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- F. ASTM C67 Sampling and Testing Brick and Structural Clay Tile
- G. ASTM B117 Standard Method of Salt Spray (Fog) Testing.
- H. ASTM D968 Abrasion Resistance of Organic Coatings by Falling Abrasive
- I. FS TT-C-555B Coating Textured for Interior and Exterior Masonry Surfaces
- J. MIL-Y-1140G Yarn, Cord, Sleeving, Cloth and Tape-Glass
- K. Mil. Std. 810B Mildew Resistance  
(Method 508)
- L. ASTM E96 Water Vapor Transmission  
(Method B)

## 1.3.2 Definitions of Reference Terms

- A. ASTM: American Society for Testing and Materials
- B. Building Authority: Local jurisdictional building authority

## 1.4 QUALITY ASSURANCE

1.4.1 Qualifications: The System Applicator shall provide satisfactory evidence of his qualifications to apply the Finescreen 500 Cement Board Stucco System.

- A. The system applicator shall provide satisfactory evidence of his qualifications to apply the Finescreen 500 Cement Bord Stucco System.

## 1.4.2 Plan Review

- A. At the Architect's discretion, the system manufacturer shall review and comment regarding system application and details prior to bidding.
- B. At the Architect's Discretion, the system manufacturer shall perform a water vapor transmission analysis of a typical wall assembly with information provided by the Architect/Engineer.

## 1.4.3 Pre-Construction Meeting

- A. At the Architect's discretion, a pre-construction meeting shall be conducted to review system details and necessary coordination with other trades. Representatives shall be present from:
  - 1. Architect.
  - 2. General Contractor.
  - 3. Finestone Applicator.
  - 4. Finestone Manufacturer's Representative.
  - 5. Other trades affected by system application. (e.g., Roofing Contractor, Window and Glazing Contractor, Sealant Contractor, etc.).

## 1.4.4 Design and Detailing a Cement Board Stucco System.

- A. General
  - 1. The system shall be installed in strict accordance with current recommended published details and product specifications from the system's manufacturer.
  - 2. Sealants and backer rod as required at dissimilar materials and expansion joints within the Finescreen 500 Cement Board System shall provide a complete watertight system.
  - 3. Prefabricated accessories shall be used at control joints as required.
  - 4. The use of dark colors must be considered in relation to wall surface temperature as a function of local climate conditions.
  - 5. Minimum slope for all projections shall be 1:2 with a maximum maximum width of 30.5 cm (12") [e.g. 15 cm in 30.5 cm (6" in 12") width]
- B. Substrate Systems
  - 1. Substrate must be level within 6.4 mm in 3 m (<sup>1</sup>/<sub>4</sub>" in 10').
  - 2. The Finescreen 500 Cement Board System is a limited use system and is applied directly over approved

- supporting structural wood or metal stud framing, as approved by Finestone.
  - 3. The applicator shall verify that the proposed framing is acceptable prior to application of the Finescreen 500 Cement Board Stucco System
  - 4. The framing shall be engineered with regard to structural performance by others.
  - C. System Joints
    - 1. Expansion joints in the system are required at building expansion joints, at prefabricated panel joints, where substrates change and where structural movement is anticipated.
    - 2. Control joints as required:
      - a. 54 m<sup>2</sup> (576 ft<sup>2</sup>) maximum area
      - b. One dimension shall not exceed 2.5 times the other dimensions.
      - c. At all dissimilar materialsReference architectural drawings for expansion joint and control joint locations.
  - D. Coordination with Other Trades
    - 1. Architect shall evaluate adjacent materials such as windows, doors, etc. for conformance to manufacturers' details. Adjacent trades shall provide scaled shop drawings for review.
- 1.4.5 Evaluations, Listings, and Classifications
- A. The Finescreen 500 Cement Board System base coat and finish shall be tested as having a flame spread of less than or equal to 25.
- 1.4.6 Code Approvals
- The system shall be recognized for the intended use by applicable Building Codes.

## **1.5 SUBMITTALS**

- 1.5.1 Applicator must submit evidence with the bid that is presently qualified to be an applicator of this system.
- 1.5.2 Product Data: The applicator shall provide manufacturer's data on Finescreen 500 Cement Board Stucco System materials, product characteristics, performance criteria, limitations, and durability.
- 1.5.3 Samples
  - A. The applicator shall, before the project commences, provide the architect/owner with samples for approval. Samples shall be of the system and of suitable size (at least 30.5 cm x 30.5 cm [1' x 1']) as required to accurately represent each color and texture to utilize on the project.
  - B. Each sample shall be prepared using the same tools and techniques as required for the actual application.
  - C. An approved sample shall be available and maintained at the job site.
- 1.5.4 Shop Drawings
  - A. The applicator shall prepare and submit schedules and complete shop drawing to the Architect for approval.
  - B. The drawings shall show all details, sizes, types, finishes, anchorage and sealant joints and other items as required or specified so that a proper evaluation can be made of the proposed materials and construction.

## **1.6 PRODUCT DELIVERY, STORAGE AND HANDLING**

- 1.6.1 Deliver to job site all materials in undamaged containers, clearly marked and identified with manufacturer's name and description of contents.
- 1.6.2 Store materials inside or under cover and off the ground to keep them dry, protected from the weather, direct sunlight, surface contamination, damaging temperatures, damage from construction traffic and other causes.
- 1.6.3 Store all Finescreen 500 Cement Board Stucco materials at temperatures not less than 4° C (40° F) or more than 43° C (110° F).

## **1.7 PROJECT CONDITIONS**

- 1.7.1 Existing Conditions
  - A. The contractor shall refer to section 01010 for project requirements and the contractor's responsibility thereunder.
- 1.7.2 Weather / Environment Conditions

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- A. The contractor under this section shall verify site conditions to assure that the requirements of storage of materials and installation procedures conform to the system manufacturer's current product storage and application requirements as applicable to warranty conditions.
- B. Do not apply the system in ambient temperatures below 4° C (40° F). Provide supplementary heat during installation and drying period when temperatures less than 4° C (40° F) prevail.
- C. Do not apply the system to frozen surfaces.
- D. Maintain ambient temperature at or above 4° C (40° F) during and at least 24 hours after system installation and until dry.

## 1.7.3 Protection of Work

- A. Protect surrounding areas and surfaces during the application of the system.
- B. The system shall be protected when work ceases for the day or when an area is completed so that water will not infiltrate behind the system.

## 1.8 COORDINATION AND SCHEDULING

- 1.8.1 Installation of the system shall be coordinated with other construction trades.
- 1.8.2 Tops of walls must be immediately covered to avoid water infiltration. To protect the system, install system copings or flashing as soon as possible after the finish coat of the system has been applied.
- 1.8.3 All sealants shall be installed in a timely manner.
- 1.8.4 Sufficient labor and equipment must be employed to ensure a continuous operation, free of cold joints, scaffolding lines, etc.

## 1.9 LIMITED WARRANTY

- 1.9.1 Upon request, the system's manufacturer shall offer a 5 year limited warranty for materials.

## Part 2 - Products

### 2.1 GENERAL

- 2.1.1 All components of the Finescreen 500 Cement Board Stucco System shall be obtained from the system manufacturer through an authorized distributor.

### 2.2 MATERIALS

- 2.2.1 Cement Board: Conform to ASTM C1325, minimum 13 mm ( $\frac{1}{2}$ " ) thickness as approved by Finestone.
- 2.2.2 Reinforcing Mesh: MIL-Y-1140G; balanced, open weave glass fiber reinforcing mesh; twisted multi-end strands for compatibility with Finestone lamina components.
  - A. Standard Mesh: Standard weight.
  - B. Reinforcing Corner Mesh: Intermediate weight, pre-marked for easy bending, for reinforcing at exterior corners.
  - C. Finestop Sheathing Mesh Tape: A standard weight mesh coated with a pressure sensitive adhesive and used with Base Coat as reinforcement over acceptable sheathing joints, rough openings and terminations.
- 2.2.3 Base Coat: 100% acrylic-polymer base coat, site-mixed with Portland cement. Finestone Adhesive/Base Coat (A/BC) or approved equal. Vinyl-based products shall not be used.
- 2.2.4 Dry Mix Base Coat: A dry, ready-mix blend of polymer and Portland cement that is site-mixed with water. Finestone A/BC 1-Step or approved equal. )
- 2.2.5 Waterproof Adhesive/Base Coat (for use where indicated on construction drawings): Polymer-based waterproof insulation adhesive and/or base coat, site-mixed with Portland cement. Finestone Fineguard or approved equal.
- 2.2.6 High Build Base Coat (for use as a leveling base coat where indicated on construction drawings): 100% acrylic polymer-based product, site-mixed with Portland cement. Finestone Finebuild or approved equal.
- 2.2.7 Finish: Factory-mixed formulation of 100% acrylic polymers and aggregate integrally pigmented and formulated for specific textures. Finestone Pebbletex Finishes or approved equal. Texture shall be <\_\_\_\_\_>.

2.2.8 Aggrelastic Finish: Elastomeric factory-mixed formulation of 100% acrylic polymers and aggregate integrally pigmented and formulated for specific textures. Finestone Aggrelastic 100, 200 Finish or approved equal. Texture shall be <\_\_\_\_\_>.

2.2.9 Fineshield Additives: Finish material shall include the following factory formulated finish enhancements:

| ADDITIVE    | DESCRIPTION   |
|-------------|---|
| None        |   |
| SRS         | Standard in all Finestone Finishes  |
| Maximum A/S | For maximum resistance to soiling, siloxane polymer (silicone) is added . Silicone polymers reduce mildew and algae growth, stay cleaner, and are hydrophobic.. |
| XL          | Mildew protection additive.   |

Note: Any combination of enhancements may be added.

2.2.9 Portland cement: Type I or I-II per ASTM C150.

2.2.10 Water: Clean and potable.

### 2.3 ACCESSORIES

Starter Track, L bead, J bead, angled termination bead, casing beads, corner beads, expansion joints and weep screed must comply with ASTM D1784 or C11063 for vinyl, ASTM A525 or A526 for galvanized, and ASTM B69 for zinc with ground heights of 1/8". Type as recommended by Finestone.

### 2.3 EXTERIOR SEALANTS

2.4.1 Sealant systems shall be compatible as required by the sealant manufacturer, Architect and system manufacturer. Reference Section 07920.

2.4.2 Compatible Sealants:

| MANUFACTURER                | PRODUCT              | PRIMER                   | COMMENTS                    |
|-----------------------------|----------------------|--------------------------|-----------------------------|
| Dow Corning Corporation     | 790 Silicone Sealant | 1200 Prime Coat          | CBS to CBS Joints           |
| Dow Corning Corporation     | 791 Silicone Sealant | Generally not required   | CBS to dissimilar materials |
| Dow Corning Corporation     | 795 Silicone Sealant | Generally not required   | CBS to dissimilar materials |
| General Electric Company    | Silpruf Sealant      | SS4179 Primer (optional) |                             |
| Pecora Corporation          | Dynatrol II          | P-75                     |                             |
| Sonneborn Building Products | Sonolastic NP II     | Primer #733              |                             |
| Tremco, Inc.                | Dymeric #P1          | Primer                   |                             |

- A. Do not return finishes into sealant joints at any building expansion joints.
- B. Non-dynamic, non-structural joints where the primary function is weatherproofing may be bonded to either the base coat or finish coat. <Sealants shall be bonded to the base coat.>
- C. Substitutions to these sealants must be proved to be compatible with the CBS by both the Contractor and sealant manufacturer, and accepted by the Architect and CBS manufacturer.

2.4.3 Color of Sealant: Color of sealant shall be manufacturer's standard as approved by Architect.

2.4.4 Backing Materials

- A. Backer rod shall be round closed cell non-staining, non-absorbent extruded polyethylene flexible rod as recommended by the manufacturer of the sealant.
- B. Backer rod shall be clean, dry and free of foreign matter.
- C. Open cell, Oakum, or other types of absorptive materials shall not be used.
- D. Bond breaker tape shall be used as recommended by sealant manufacturer for proper sealant joint design and performance.

2.4.5 Sealant primer: Sealant primer use and application according to manufacturer's requirements. Surfaces shall be primed if required prior to installation of the sealant.

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## PART 3 - EXECUTION

### 3.1 INSPECTION

- 3.1.1 Installer shall examine the project site conditions to determine if they are in satisfactory condition to receive the Finescreen 500 Cement Board System.
- 3.1.2 Walls
  - A. Secondary Weather Barrier:
    - 1. Verify that the secondary weather barrier maintains a high tensile strength and is installed over the framing per applicable building code requirements, manufacturer's specifications and Finestone details, prior to application of the Finestone Finescreen 500 System.
    - 2. For installations over metal framing, a spray applied adhesive, adhesive or tape must be used to attach the secondary weather barrier to the metal studs.
  - B. Cement Board
    - 1. Acceptable cement board must satisfy ASTM C1325.
    - 2. Cement board must be securely fastened per applicable building code and project requirements.
    - 3. Examine surfaces to receive the system and verify that substrate and adjacent materials are dry, clean and sound. Verify substrate surface is flat, free of fins or planar irregularities greater than 6.4 mm in 3 m (1/4" in 10').
    - 4. Cement board must be a single piece around corners of openings.
    - 5. Cement board must be fastened with corrosion-resistant screws.

- C. Flashings
    1. Head, jamb and sills of all openings must be flashed with a minimum 230 mm (9") strip of secondary weather barrier prior to window/door, HVAC, etc. installation.
    2. Windows and openings shall be flashed according to design and building code requirements.
    3. Individual windows that are ganged to make multiple units require that the heads be continuously flashed an/or the joints between the units must be fully sealed.
  - D. Decks
    1. Decks must be properly flashed prior to system application.
    2. The system must be terminated a minimum of 25 mm (1") above all decks, patios and sidewalks, etc.
  - E. Utilities
    1. The system must be properly terminated at all lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.
  - F. Roof
    1. Verify that all roof flashings have been installed in accordance with the guidelines set forth by the Asphalt Roofing Manufacturers Association (ARMA).
  - G. Kick-out flashing
    1. Kick-out flashing must be leak-proof and angled (min 100°) to allow for proper drainage and water diversion.
- 3.1.3. Unsatisfactory conditions shall be reported to the general contractor and/or builder and/or architect and/or owner. Do not proceed until all unsatisfactory conditions have been corrected.
- 3.1.4. Installation of the Finestone Finescreen System 500 is limited to cases of limited size and/or protected areas such as equipment- or privacy-screen walls, soffits, fascia, protected areas, balcony areas, penthouse areas, etc.
- 3.1.5 Spacing of the framing shall not exceed 40.5 cm (16" o.c.)
- 3.1.6 All cement board terminations must be supported by a framing member.

### **3.2. PRE-INSTALLATION MEETING**

- 3.2.1 At the Architect's discretion, installer, system manufacturer's representative, and other trades whose work affects the finished system shall meet at project site to review procedures and time schedule proposed for installation of the system and coordination with related work.

### **3.3 PREPARATION**

- 3.3.1 Protect all surrounding areas and surfaces from damage and staining during application of the system.
- 3.3.2. Protect finished work at end of each day to prevent water penetration.
- 3.3.3. Substrate preparation: Prepare substrates in accordance with manufacturer's instructions.

### **3.4. MIXING, GENERAL**

- 3.4.1 Mix each product per instructions as published in Product Bulletins or on product packaging.
- 3.4.2 No additives are permitted unless specified in product mixing instructions.
- 3.4.3. Close containers when not in use. Clean tools with soap and water immediately after use.

### **3.5 INSTALLATION, GENERAL**

- 3.5.1 Comply with manufacturer's current published instructions for installation of system and system components to type of substrate indicated.
- 3.5.2. Accessories: Attach starter track per manufacturer's instructions and Finescreen 500 Cement Board Stucco System Typical Details.
- 3.5.3. Secondary Weather Barrier: Install weather barrier directly over open framing and wrap into openings in accordance with manufacturer's recommendations.
- 3.5.4. Cement Board:
- A. Install cement board over secondary weather barrier in accordance with the manufacturer's instructions and

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project requirements.

- B. Install Finestop Sheathing Mesh Tape in accordance with manufacturer's instructions.
  - 1. Over all cement board joints and terminations.
  - 2. For openings, over flange and onto the cement board.

### **TECHNICAL SUPPORT**

For further details, specifications, questions, specific recommendations, or the most recent product information, please consult the BASF Wall Systems Technical Services Department: Toll-free 800-221-9255 or our website, [www.finestone.basf.com](http://www.finestone.basf.com).

### **NOTE**

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### **RESIDENTIAL POLICY**

On one and two-family residential framed construction, BASF Wall Systems requires that the wall system selected be one that includes provisions for moisture drainage. The choices include Pebbletex D line of drainage EIFS, FINESTONE Stucco Systems and Finescreen Cement Board Stucco Systems. There are no exceptions to this policy. Under no circumstances will BASF Wall Systems warrant the use of any other system on this type of construction without expressed written authorization from BASF Wall Systems [Residential construction using EIFS on masonry (CMU) or poured concrete does not require the additional water management provisions described above.] See the FINESTONE Residential Policy Bulletin for a more detailed discussion of this topic. Consult BASF Wall Systems Technical Services Department for specific recommendations concerning all other applications. Consult the FINESTONE website, [www.finestone.basf.com](http://www.finestone.basf.com) for additional information about products and systems and for updated literature.

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