

Finestone Stucco Wall System – Section 092400

2 and 3 coat impact-resistant cement plaster, stucco system.

INTRODUCTION

This specification has been assembled to enable the design professional to select or delete sections to suit the project requirements and is intended to be used in conjunction with Finestone® typical details, product bulletins, technical bulletins, etc.

DESIGN RESPONSIBILITY

It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for its intended use. The designer selected by the purchaser shall be responsible for all decisions pertaining to design, detail, structural capability, attachment details, shop drawings and the like. The Finestone® brand of Master Builders Solutions US, LLC (herein referred to as “Master Builders Solutions”) has prepared guidelines in the form of specifications, typical application details, and product bulletins to facilitate the design process only. Master Builders Solutions is not liable for any errors or omissions in design, detail, structural capability, attachment details, shop drawings or the like, whether based upon the information provided by Master Builders Solutions or otherwise, or for any changes which the purchasers, specifiers, designers or their appointed representatives may make Master Builders Solutions published comments.

Designing and Detailing a Finestone Stucco Wall System

General: The system shall be installed in strict accordance with current recommended published details and product specifications from the system’s manufacturer.

A. Wind Load:

1. Maximum deflection not to exceed $L/360$ under positive or negative design loads.
2. Design for wind load in conformance with local code requirements.

B. Substrate Systems:

1. Acceptable substrates are: PermaBase® Cement Board and other cement-boards conforming with ASTM C1325 (Type A-exterior); poured concrete/unit masonry; ASTM C1177 type sheathings, including, Weather Defense™ Platinum sheathing, GreenGlass® sheathing, eXP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, and DensGlass® exterior sheathing DensElement (sheathing only); gypsum sheathing (ASTM C79/C1396); Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB.
2. Painted and otherwise coated surfaces of brick, unit masonry, and concrete shall be inspected and prepared as approved by Master Builders Solutions before application. The applicator shall verify that the proposed substrate is acceptable prior to the Finestone Stucco Wall System installation.
3. The substrate systems shall be engineered with regard to structural performance by others.
4. The use of Lath is not required for applications of the Finestone Stucco Wall System applied directly over substrates of unpainted and properly cleaned poured concrete/unit masonry in thicknesses up to 5/8” applied in accordance with ASTM C926. The use of Finestone Stuccobond, surface applied bonding agent, is recommended for this type of application.
5. Refer to Finestone Stucco Wall Systems Lath and Trim Accessories Technical Bulletin for more detailed information regarding metal lath, woven wire, trim requirements, etc.

C. Moisture Control:

1. Prevent the accumulation of water behind the Finestone Stucco Wall System, either by condensation or leakage through the wall construction, in the design and detailing of the wall assembly.
 - a. Provide flashing to direct water to the exterior where it is likely to penetrate components in the wall assembly, including, above window and door heads, beneath window and door sills, at roof/wall intersections, decks, abutments of lower walls with higher walls, above projecting features, at the base of the wall and anywhere else required by local code.
 - b. The water resistive barrier must be installed over the substrate according to manufacturer’s specifications and applicable building code requirements.

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- c. Openings must be flashed prior to window/door, HVAC, etc. installation to provide moisture protection of the building frame and interior. Refer to *Finestone's Secondary Moisture Protection Barrier Guidelines for Finestone Stucco Wall System* bulletin.
- d. Air Leakage Prevention: provide continuity of air barrier system at foundation, roof, windows, doors and other penetrations through the system with connecting and compatible air barrier components to minimize condensation and leakage caused by air movement.

D. Color Selection: The use of dark colors over EPS insulation trim shapes must be considered in relation to wall surface temperature as a function of local climate conditions. Select Finish Coat color with a light reflectance value (LRV) of 20% or higher. The use of dark colors (LRV less than 20%) is not recommended with trim shapes that incorporate expanded polystyrene (EPS). EPS has a sustained service temperature limitation of approximately 160°F (71°C).

E. Grade Condition: Stucco is not intended for use below grade or on surfaces subject to continuous or intermittent immersion in water or hydrostatic pressure. Ensure a minimum 4" (101.6mm) clearance above grade or as required by code, a minimum 2" (50.8mm) clearance above finished grade (sidewalk/concrete flatwork).

F. Trim, Projecting Architectural Features

NOTE TO SPECIFIER: Installation of the Finestone Stucco Wall System with decorative shapes that incorporate EPS insulation board outside the slope guidelines referenced in this specification may still qualify for a standard warranty; however, low sloping shape conditions are subject to extreme heat, increased maintenance and premature deterioration of the system shall be expected and any deleterious effects caused by the lack of slope will not be the responsibility of Master Builders Solutions. Finestone Wall Systems are designed and tested to be applied to vertical surfaces. The design professional has the option to build according to his/her project needs. The design professional must also consider geography, climate, building orientation, wall orientation and adjacent building components when designing with trim shapes that incorporate EPS insulation board. The slope guidelines referenced below are provided to offer assistance to the owner and/or design professional. Final design of any building is the responsibility of the design professional.

1. Minimum slope for all projections shall be 1:2 (27°) with a maximum length of 12" (30.5 cm) [e.g. 6" in 12" (15 cm in 30.5cm)]. Increase slope for northern climates to prevent accumulation of ice/snow on the surface.
2. Finestone Wall Systems were designed and tested to be applied to vertical surfaces. As the slope of the wall system application decreases, the chance for premature deterioration of any wall system increases.
3. Low sloping conditions are subject to more extreme heat. Low sloped areas are known to produce an increase in wall surface temperature which can lead to accelerated weathering of the low sloped surface.

G. System Joints

1. Expansion joints in the system are required at building expansion joints, at prefabricated panel joints, floor lines of wood frame construction, where substrates change and where structural movement is anticipated. Detail specific locations in construction drawings.
2. Control joints are recommended at a minimum of every 144 ft.² (13m²) of wall surface area and where specified by the design professional. The maximum uncontrolled length or width is 18 LF (5.5 LM) and a maximum uncontrolled length to width ratio of 2 ½:1. Detail specific locations in construction drawings.
3. It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion and control joint placement, width and design.
4. Sealant joints are required at all penetrations through the Finestone Stucco Wall System (windows, doors, lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.). Refer to Finestone Stucco Wall System typical details.
5. For a list of acceptable sealants refer to *Acceptable Sealants for use with Finestone Wall Systems* technical bulletin.

H. Decks: Wood decks must be properly flashed prior to system application. For proper application, refer to Finestone Stucco Wall System Typical Details. The Finestone Stucco Wall System must be terminated a minimum of 1" (25mm) above all decks, patios, sidewalks, etc.

I. Coordination with Other Trades:

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1. Evaluate adjacent materials such as windows, doors, etc. for conformance to manufacturer's details. Adjacent trades shall provide scaled shop drawings for review.
2. Air Seals at any joints/gaps between adjoining components (penetrations, etc.) are of primary importance to maintain continuity of an air barrier system and must be considered by the design professional in the overall wall assembly design. Install an air seal between the primary air/water-resistive barrier and other wall components (penetrations, etc.) in order to maintain continuity of an air barrier system.
3. Provide protection of rough openings in accordance with *Finestone Moisture Protection Guidelines for Finestone Stucco Wall System* before installing windows, doors, and other penetrations through the wall.
4. Install copings and sealant immediately after installation of the Finestone Stucco Wall System and when Finestone coatings are completely dry.

TECHNICAL INFORMATION

Consult Master Builders Solutions' Technical Services Department for specific recommendations concerning all other applications. Consult the Finestone website, finestone.master-builders-solutions.com, for additional information about products, systems and for updated literature.

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PART 1 GENERAL

NOTE TO SPECIFIER: Items in blue/underlined indicate a system option or choice of options. Throughout the specification, delete those which are not required or utilized.

1.01 SECTION INCLUDES

- A. Refer to all project 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.
- B. System Description: Composite wall system consisting of a water-resistive barrier, PERMALATH® or metal lath, STUCCOBASE™/ STUCCOBASE™ PREMIX by Master Builders Solutions, STUCCOPRIME (optional) and Finestone Finish Coat.
- C. 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.
- D. The system type shall be Finestone Stucco Wall System as manufactured by Master Builders Solutions, Shakopee, MN.

1.02 RELATED SECTIONS

- A. Section 03 00 00 Concrete substrate
- B. Section 04 00 00 Masonry substrate
- C. Section 05 40 00 Cold-formed metal framing
- D. Section 06 16 00 Wood sheathing
- E. Section 06 11 00 Wood framing
- F. Section 07 27 00 Air barriers
- G. Section 07 62 00 Sheet Metal Flashing and Trim
- H. Section 07 65 00 Flexible flashing
- I. Section 07 90 00 Joint protection
- J. Section 08 00 00 Openings
- K. Section 09 22 00 Supports for plaster and gypsum board
- L. Section 09 22 16 Non-structural metal framing
- M. Section 09 29 00 Gypsum board
- N. Section 09 22 36 Metal Lath

1.03 REFERENCES

- A. ASTM C150 Standard Specification for Portland Cement
- B. ASTM C926 Standard Specification for Application of Portland Cement-Based Plaster
- C. ASTM C1063 Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster
- D. CCRR 0249 Intertek Code Compliance Research Report (PERMALATH 1000)
- E. ASTM C847 Standard Specification for Metal Lath
- F. ASTM C933 Standard Specification for Welded Wire Lath
- G. ASTM C1032 Standard Specification for Woven Wire Plaster Base
- H. ASTM D226 Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing
- I. ASTM D1784 Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (PVC) Compounds
- J. ICC-ES AC11 Cementitious Exterior Wall Coatings
- K. CCRR 0230 Intertek Code Compliance Research Report (STUCCOBASE/ STUCCOBASE PREMIX)

1.04 SUBMITTALS

- A. Submit under provisions of Section [01 33 00]
- B. Product Data: Provide data on Finestone Stucco Wall System materials, product characteristics, performance criteria, limitations and durability.
- C. Code Compliance: Provide manufacturer's applicable code compliance report.
- D. Samples: Submit [two] [x] [millimeter] [inch] size samples of Finestone Stucco Wall System illustrating Finish Coat color and texture range.

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- E. Certificate: System manufacturer's approval of applicator.
- F. Sealant: Sealant manufacturer's certificate of compliance with ASTM C1382.
- G. System manufacturer's current specifications, typical details, system design guide and related product literature which indicate preparation required, storage, installation techniques, jointing requirements and finishing techniques.

1.05 QUALITY ASSURANCE

- A. Manufacturer: More than 10 years in the cement plaster stucco industry, with more than 1000 completed cement plaster stucco projects.
- B. Applicator: Approved by Master Builders Solutions, in performing work of this section.
- C. Regulatory Requirements: Conform to applicable code requirements for cement plaster stucco.
- D. Field Samples
 - 1. Provide under provisions of Section [01 43 36] [01 43 39].
 - 2. Construct one field sample panel for each color and texture, [x] [meters] [feet] in size of system materials illustrating method of attachment, surface Finish color and texture.
 - 3. Prepare each sample panel using the same tools and techniques to be used for the actual application.
 - 4. Locate sample panel where directed.
 - 5. Accepted sample panel [\[may\]](#) [\[may not\]](#) remain as part of the work.
 - 6. Field samples shall be comprised of all wall assembly components including substrate, water resistive barrier, plaster trim accessories, plaster base, STUCCOBASE™/STUCCOBASE™ PREMIX by Master Builders Solutions, STUCCOPRIME (if specified), Finestone Finish Coat and typical sealant/flashing conditions.
- E. Testing:
 - 1. Finestone Stucco Wall System and Component Performance:

TEST	METHOD	CRITERIA	RESULTS
Water penetration of exterior windows, curtain walls and doors by uniform static air pressure	1. ASTM E 331	No water penetration on the face of the test specimen at 136.9 Pa (2.86 psf).	Pass
Freeze-thaw Resistance	Per ICC-ES acceptance criteria AC-11	No sign of deleterious effects after 10 cycles	STUCCOBASE passed with no visible evidence of deterioration when examined under 5x magnification
Water Vapor Transmission	ASTM E96 -Wet Cup	Report Value	STUCCOBASE 20.4 perms
Racking Load Test	ASTM E72	Report Value	Maximum load resistance 5530 pounds (250 kg)
Compressive Strength	ASTM C109	Report Value	22.4 MPa (3245 psi) average for STUCCOBASE
Flexural Strength	ASTM C348	Report Value	4.57 MPa (663 psi) average for STUCCOBASE
Surface Burning	ASTM E84	Report Value	<25 Flame Spread <450 Smoke Developed Includes PermaLath 1000, StuccoBase, and Finestone Finishes
Non-Combustibility	ASTM E136	No flaming, excess temperature rise or weight loss when exposed to 750°C (1382°F)	Pass StuccoBase with PermaLath 1000 or metal plaster base
Fire Resistance Rated Assemblies	ASTM E119	No transmission of heat greater than 250°F above ambient; no passage of flame or hot gasses; no passage of water from hose stream test; for loadbearing walls – ability to withstand load under test conditions	1 Hour Rated Assemblies ¹ : <ul style="list-style-type: none"> • Load bearing wood stud wall with 10.9 mm (7/16") OSB and 9.5 mm (3/8") STUCCOBASE. • Load bearing wood stud wall with 16 mm (5/8") Type X gypsum sheathing and 9.5 mm (3/8") STUCCOBASE • Load bearing wood stud wall with 10.9 mm (7/16") OSB, PERMALATH 1000 & • 12.7 mm (1/2") STUCCOBASE • (from inside only). • Non-load bearing steel framed wall with 16 mm (5/8") Type X gypsum

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			sheathing, PERMALATH 1000 & 12.7 mm (1/2") STUCCOBASE
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2. ASTM E330 Wind-Load:

FRAMING	SHEATHING	LATH	ALLOWABLE WIND LOAD	
Minimum 2x4 wood with a maximum spacing of 24" on center	Fiberboard, gypsum board and wood structural panels	Minimum No. 20 gage by 1" metal lath installed with 11 gage roofing nails or NO. 16 gage staples spaced as follows: 6 in. o.c. for framing with G=0.50 5 in. o.c. for framing with G=0.46 4 in. o.c. for framing with G=0.42	40 psf positive	40 psf negative
Min. 3-5/8 in. No. 20 gage steel studs with a maximum spacing of 24 in. o.c.	Fiberboard, gypsum board and wood structural panels	Min. No. 20 gage by 1-in. metal lath installed with No 7, S-12-20 self-drilling, self-tapping panhead screws, spaced at 6 in. o.c.	40 psf positive	40 psf negative

1.06 DELIVERY, STORAGE AND HANDLING

- Deliver, store and handle products under provisions of Section [01 65 00] [01 66 00] [].
- Deliver Master Builders Solutions materials in original unopened packages with manufacturer's labels intact.
- Protect Master Builders Solutions materials during transportation and installation to avoid physical damage.
- Store Master Builders Solutions materials in cool, dry place protected from freezing. Store at no less than 40°F/4°C (50°F/10°C AURORA STONE, AURORA TC-100 and ALUMINA finish).
- Store MAXFLASH at a minimum of 40F. In cold weather, keep containers at room temperature for at least 24 hours before using.
- Store insulation boards flat and protected from direct sunlight and extreme heat.
- Store Reinforcing Mesh flexible flashing in cool, dry place.

1.07 PROJECT/SITE CONDITIONS

- Do not apply Master Builders Solutions material in ambient temperatures below 40°F/4°C (50°F/10°C for AURORA STONE, AURORA TC-100 and ALUMINA Finish). Provide properly vented, supplementary heat during installation and drying period when temperatures less than 40°F/4°C (50°F/10°C for AURORA STONE, AURORA TC-100 and ALUMINA Finish) prevail.
- Do not apply materials to frozen surfaces.
- Maintain ambient temperature at or above 40°F/4°C (50°F/10°C for AURORA STONE, AURORA TC-100 and ALUMINA Finish) during and at least 24 hours after Finestone Stucco Ultra Wall System installation and until dry.

1.08 SEQUENCING AND SCHEDULING

- Coordinate and schedule installation of Finestone Stucco Wall System with related work of other sections.
- Coordinate and schedule installation of trim, flashing, and joint sealers to prevent water infiltration behind the system.

1.09 WARRANTY

- Provide Master Builders Solutions – Finestone standard warranty for Finestone Stucco Wall System installations under provisions of Section [01 70 00]. Reference Finestone's *Stucco Warranty Schedule* technical bulletin for specific information and additional duration options.
- Comply with Master Builders Solutions notification procedures to assure qualification for warranty.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

All components of the Finestone Stucco Wall System shall be obtained from the system manufacturer or through an authorized distributor.

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2.02 MATERIALS

NOTE TO SPECIFIER: Items in blue/underlined indicate a system option or choice of options. Throughout the specification, delete those which are not required or utilized. Contact Master Builders Solutions Technical Service Department for further assistance.

A. Water-Resistive Barrier: (Required, Select One, unless applied direct to unit masonry/non-insulated concrete substrate surfaces)

NOTE TO SPECIFIER: A water resistive barrier must be installed over sheathed substrates and wrapped into rough openings prior to installation of the Finestone Stucco Wall System. Ensure specification of the appropriate number of layers of water resistive barrier according to specific substrate type.

1. In accordance with the 2012 IRC/IBC, non-wood based sheathings require a minimum of 1 layer of No.15 asphalt felt, complying with ASTM D226 for Type 1 felt or other approved material.
2. In accordance with the 2012 IRC/IBC, wood based sheathings require a water-resistive vapor permeable barrier with a performance at least equivalent to 2 layers of Grade D paper.
 - a. Exception: 1 layer where the water resistive barrier has a water resistance equal to or greater than 60 minute Grade D paper and is separated from the stucco by an intervening substantially non water absorbing layer or drainage space.

B. STUCCOBOND Substrate Bonding Agent by Master Builders Solutions: An acrylic-based, non-reemulsifiable bonding agent for application of the Finestone Stucco Wall System direct to unit masonry/non-insulated concrete substrate surfaces in accordance with ASTM C926.

C. Lath: (Required, Select One [unless applied direct to unit masonry/non-insulated concrete substrate surfaces])

1. PERMALATH 1000 by Master Builders Solutions: An open weave, three-dimensional self-furring, nominal 1/4" thick glass fiber reinforcing lath is for use with a minimum thickness of 1/2" (12.7mm). Complies with ASTM C1764, C1787 and C1788.
2. Woven or Welded Wire Lath: A minimum No. 20 gauge, 1" (25.4 mm) galvanized woven wire fabric is for use with 3/8"-1/2" (9.5-12.7mm) thickness only. Laths shall comply with ASTM C933 (welded) and ASTM C1032 (woven). The lath is self-furred or furred when applied over all substrates.
3. Expanded Metal Lath: The lath shall comply with ASTM C847. Furring and self-furring requirements shall be as set forth for wire lath. Minimum weight is 2.5 lb./yd² (1.36 kg/m²). Refer to ASTM C 1063 for additional information

D. Fastening for Lath/Plaster Base: (Required, Select One or More)

1. PERMALATH 1000: Washers: ULP-302 (1 3/4") or Lath Plate (1 1/4") Mechanical Fastening Systems by Wind-Lock Corp.
 - a. Masonry: masonry type [M] fastener with ULP 302 diameter washer; or Lath Plate 1" (25 mm) minimum penetration into masonry. Fastener spacing 6" o.c. vertically and 16" o.c. horizontally.
 - b. Light Gauge Steel Framing/Furring (20 Gauge): light metal type [LM] bugle head screws with ULP 302 (1 3/4") diameter washer or Lath Plate 16 mm (5/8") minimum penetration into framing 6" o.c. vertically and 16" o.c. horizontally
 - c. Heavy Gauge Steel Framing (18 to 12 Gauge maximum): metal type [S] bugle head screws with ULP 302 (1 3/4") diameter washer or Lath Plate or 1 1/4" (32 mm) long x 1/8" (2.5 mm) diameter VersaPin Gripshank® fasteners by Aerosmith Fastening Systems with Lath Plates; 5/8" (16 mm) minimum penetration to framing 6" o.c. vertically and 16" o.c. horizontally.
 - d. Wood framing: wood type [W] bugle head screws with ULP 302 (1 3/4") diameter washer or Lath Plate; 5/8" (16 mm) minimum penetration into framing or minimum 16-gauge wire staples with minimum 3/4" crown and minimum 3/4" penetration into framing, 6" o.c. vertically and 16" o.c. horizontally.
2. Metal Plaster Base: Fasten per ASTM C1063
 - a. Masonry: Power or powder actuated fasteners and/or concrete stub nails with minimum 3/4" penetration. Fastener spacing not more than 7" o.c. vertically and 16" o.c. horizontally

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- b. Metal framing: Screws appropriate to framing gauge, not less than 3/8" penetration through framing. Fastener spacing not more than 7" o.c. vertically and 16" or 24" o.c. horizontally, based on metal plaster base type
- c. Wood framing: nails, 1" wire staples penetrating wood not less than 3/4" or screws penetrating wood not less than 5/8". Fastener spacing not more than 7" o.c. vertically and 16" or 24" o.c. horizontally, based on metal plaster base type.

E. Stucco Base Coat: (Required, Select One)

1. STUCCOBASE by Master Builders Solutions: Factory-blended stucco mixture of Portland cement, reinforcing fibers, and proprietary ingredients.
2. STUCCOBASE PREMIX by Master Builders Solutions: Factory-blended stucco mixture of Portland cement, reinforcing fibers, sand, and proprietary ingredients.

F. Plaster Sand: (Required if STUCCOBASE is selected)

1. Must be clean and free from deleterious amounts of loam, clay, silt, soluble salts and organic matter. Sampling and testing must comply with ASTM C897. Plaster sand must be graded within the following limits: Percent retained by weight
Retained on ± 2 Percent

U.S. Standard Sieve	Minimum	Maximum
No. 4	-	0
No. 8	0	10
No. 16	10	40
No. 30	30	65
No. 50	70	90
No. 100	95	100

G. Water: Clean and potable without foreign matter.

H. Decorative Shapes: (Optional)

1. Expanded polystyrene; ASTM C578, Type I; Flame spread less than 25, smoke developed less than 450 per ASTM E84, UL 723; minimum density 0.95 lb./ft³ (15.22 kg/m³); 0.24/inch (K=6.09/mm); 3/4" (19 mm) thickness minimum as indicated on drawings; meeting the following:
 - a. Air-dried (aged) six weeks, or equivalent, prior to installation.
 - b. Edges: Square within 1/32" per foot (0.8 mm per 0.3 meter).
 - c. Thickness: Tolerance of (+/-) 1/16" (1.6 mm).
 - d. Length and width: Tolerance of (+/-) 1/16" (1.6 mm).

I. Adhesives/Base Coats: (Required if Decorative Shapes or if DIAMONDSHILED is Selected)

1. AB/C Base Coat: A 100% acrylic base coat, field-mixed with Type I or Type II Portland cement. It has a creamy texture that is easily spread.
2. AB/C 1-Step Base Coat: A dry-mix polymer adhesive and base coat containing Portland cement, and requiring only water for mixing.

J. Portland Cement (Required if AB/C BASE COAT is selected): Conform to ASTM C150, Type I, II, or I/II, grey or white; fresh and free of lumps.

K. Finestone STANDARD MESH EPS Insulation Board Reinforcing Mesh (Required if Decorative Shapes are Selected): 4 oz balanced, open-weave glass, fiber reinforcing mesh, twisted multi-end strands treated for compatibility with Finestone Base Coats

L. DIAMONDSHIELD Stucco Reinforcing Mesh by Master Builders Solutions (Optional): A balanced, open-grid triaxial glass fiber mesh that distributes stress across three directions for superior crack resistance properties on new or retrofit stucco applications.

M. STUCCOPRIME Prime by Master Builders Solutions: A 100% acrylic-based primer; color [] to closely match the selected Finestone Finish Color.

NOTE TO SPECIFIER: STUCCOPRIME is recommended for NATURAL SWIRL finish texture and required for AURORA TC-100, AURORA STONE and ALUMINA finishes. Although optional in other applications, Finestone highly recommends the use of STUCCOPRIME prior to application of Finestone Finish over applications of Finestone Stucco wall system "brown coat". The application

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of STUCCOPRIME will enhance color uniformity, performance and ease Finestone Finish application and will minimize the likelihood of read-through.

N. Finestone Finish Coat: (Required, Select One or More Finishes and Textures)

1. PEPPLETEX Finish: 100% acrylic polymer finishes with advanced technology to improve long-term performance and dirt pick-up resistance; air cured, compatible with base coat; Finestone finish color [] as selected; finish texture:
 - a. NATURAL SWIRL: A medium worm-holed" appearance which is achieved by the random aggregate sizes in the Finish. The "worm-holed" look can be circular, random, vertical or horizontal.
 - b. ROUGH SWIRL: A heavy "worm-holed" appearance which is achieved by the random aggregate sizes in the finish. The "worm-holed" look can be circular, random, vertical or horizontal.
 - c. LIMESTONE: Utilizes uniformly-sized aggregates for a uniform, fine texture.
 - d. FINETEX: Can achieve a wide variety of free-formed, textured appearances, including stipple and skip-trowel
 - e. MOJAVE: Provides a uniform, "pebble" appearance.
2. AGGRELASTIC Finish: 100% acrylic based, textured elastomeric finish that provides excellent flexibility, weatherability, and maximum resistance to mildew growth, air cured, compatible with base coat; Finestone finish color [] as selected; finish texture:
 - a. NATURAL SWIRL: A medium worm-holed" appearance which is achieved by the random aggregate sizes in the Finish. The "worm-holed" look can be circular, random, vertical or horizontal.
 - b. ROUGH SWIRL: A heavy "worm-holed" appearance which is achieved by the random aggregate sizes in the finish. The "worm-holed" look can be circular, random, vertical or horizontal.
 - c. LIMESTONE: Utilizes uniformly-sized aggregates for a uniform, fine texture.
 - d. FINETEX: Can achieve a wide variety of free-formed, textured appearances, including stipple and skip-trowel
 - e. MOJAVE: Provides a uniform, "pebble" appearance.
3. PEBBLETEX TERSUS Finish: Modified acrylic based finish with water repellent properties, compatible with base coat; Finestone finish color [] as selected; finish texture:
 - a. F1.0: A 1.0 mm uniform aggregate creating a fine texture.
 - b. M1.5: A 1.5 mm uniform aggregate creating a medium sand texture.
4. Specialty Finishes: 100% acrylic polymer finishes that can be hand-troweled to simulate stone or create a time-honored, mottled tone-on-tone look that achieves a soft and weathered patina over time.
 - a. ENCAUSTO VERONA: Utilizes uniformly-sized aggregate to achieve a free-formed, flat texture. It can be used to achieve a mottled look and unlimited tone on tone designs by combining multiple colors.
 - b. METALLIC: Has a pearlescent appearance. It utilizes uniformly-sized aggregates for a uniform fine texture.
 - c. AURORA TC-100: Provides a stone-like appearance, either rough or smooth depending upon application.
 - d. AURORA STONE: Provides a rough, stone-like appearance.
 - e. ALUMINA: Is a factory-mixed, reflective stone finish consisting of colored aggregate and large black mica flakes in a 100% acrylic transparent binder that provides a classic granite or marble-like textured finished appearance.
5. CHROMA Finish: 100% acrylic polymer based finish with integrated high performance colorants for superior fade resistance, compatible with base coat; Finestone Finish color [] as selected; finish texture:

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- a. [F1.0: Utilizes uniformly-sized aggregates for a uniformly fine texture.](#)
- b. [M1.5: Provides a uniform "pebble" appearance.](#)
- c. [R1.5: A medium "worm-holed" appearance which is achieved by the random aggregate sizes in the Finish. The "worm-holed" look can be circular, random, vertical or horizontal](#)

2.03 ACCESSORIES

A. Trim: Casing bead, corner bead, expansion joint and weep screed accessories shall meet the requirements of ASTM C1063. Accessories shall be: vinyl, meeting ASTM D1784; galvanized, meeting ASTM A525 and ASTM A526; or zinc, meeting ASTM B69. Vinyl or zinc accessories are recommended where highly humid or salt-laden service conditions exist. Refer to Finestone's *Stucco Wall Systems Lath and Trim Accessories* bulletin for additional information.

1. Foundation weep screed: Beveled edge designed to terminate finish system and drain internal moisture.
2. Casing bead: Square edge style.
3. Corner bead: Small radius nose style.
4. Control joints: W-shaped accordion profile style.
5. Expansion joints: [\[Two piece type slip-joint design\]](#) or [\[pair of casing beads spaced for application of sealant bead\]](#)

PART 3 EXECUTION

3.01 EXAMINATION

A. **Site Conditions:** Verify project site conditions under provisions of Section [01 89 00] [].

B. Walls

1. Substrates
 - a. Acceptable substrates are: PermaBase® Cement Board and other cement-boards conforming with ASTM C1325 (Type A-exterior); poured concrete/unit masonry; ASTM C1177 type sheathings, including, Weather Defense™ Platinum sheathing, GreenGlass® sheathing, eXP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, and DensGlass® exterior sheathing. DensElement (sheathing only); gypsum sheathing (ASTM C79/C1396); Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB.
 - b. Sheathings must be securely fastened per applicable building code requirements and manufacturers recommendations.
 - c. When applying direct to concrete/unit masonry in accordance with ASTM C926, verify concrete/unit masonry is free of dust, dirt, grease, oils, laitance, efflorescence, biological residue, existing paint or coatings, curing compounds, form release agents, or any other contaminants which might affect the bond of STUCCOBASE /STUCCOBASE PREMIX. Masonry walls should be properly cured to full load bearing capacity, laid true, and with joints tooled. Properly prepared concrete will have an open texture similar to fine grit sandpaper.
 - d. Examine surfaces to receive 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 1/4" in 10' (6 mm in 3 m).
2. Flashings:
 - a. All flashings are by others and must be installed in accordance with specific manufacturer's requirements. Where appropriate, end-dams must be provided.
 - b. Openings must be flashed prior to window/door, HVAC, etc. installation. Refer to Finestone's *Secondary Moisture Protection Barrier Guidelines for Finestone Stucco Wall System* bulletin for further guidance.
 - c. Windows and openings shall be flashed according to design and building code requirements.
 - d. Individual windows that are ganged to make multiple units require continuous head flashing and/or the joints between the units must be fully sealed.
3. Water Resistive Barrier: (If installed by others, examine installation at this time)
 - a. Verify that the water resistive barrier is installed over the substrate per applicable building code requirements, manufacturer's specifications and wrapped into rough openings in accordance with Finestone's *Secondary Moisture Protection Barrier Guidelines for Finestone Stucco Wall System* bulletin prior to application of the Finestone Stucco Wall System.

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- b. The water resistive barrier shall be free of any damage such as holes or breaks and must be applied to all surfaces to receive the Finestone Stucco Wall System.
 4. Roof: Verify that all roof flashings have been installed in accordance with the guidelines set by the Asphalt Roofing Manufacturers Association (ARMA).
 5. Kick-out Flashing: Must be installed where required. The kick-out flashing must be leak-proof and angled (min 100°) to allow for proper drainage and water diversion. Refer to Finestone Sentry Stucco Wall System Typical Details.
- C. Do not proceed until all unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Protect all surrounding areas and surfaces from damage and staining during application of Finestone Stucco Wall System.
- B. Protect finished work at end of each day to prevent water penetration.

3.03 MIXING

General: No additives are permitted unless specified in product mixing instructions. Close containers when not in use. Prepare in a container that is clean and free of foreign substances. Do not use a container which has contained or been cleaned with a petroleum-based product. Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

NOTE TO SPECIFIER: Keep only the products in this section which were selected in Section 2.02. Delete those not to be utilized.

A. Substrate Bonding Agent:

1. STUCCOBOND: Agitate or shake contents before beginning application procedure. For absorbent or porous substrates, such as brick or masonry, dilute STUCCOBOND 1:1 with water. For denser substrates, such as concrete or stucco, use the product as packaged.

B. Stucco Base Coat:

1. STUCCOBASE: Use mixer which is clean and free of foreign substances. Add 5-6 gallons (18.9-22.7 L) of clean potable water to mixer per bag of STUCCOBASE. Add one bag of STUCCOBASE, followed by one half 100-120 lbs. (45.4-54.4 kg) of the required plaster sand (ASTM C144 or ASTM C897). Mix for 3-4 minutes at normal mixing speed while adding the remainder 100-120 lbs. (45.4-54.4 kg) of the plaster sand. Allow material to set for 2-4 minutes, then remix adding water to achieve desired consistency. **Note: Continuous mixing may cause excessive air entrainment.**
2. STUCCOBASE PREMIX: Use mixer which is clean and free of foreign substances. Add 2-2.5 gallons (7.6-9.5 liters) of clean potable water to mixer. Slowly add one bag of STUCCOBASE PREMIX. Mix for one minute at normal mixing speed. Allow material to set for 2-4 minutes with mixing blades at rest. Then re-mix, adding water to achieve desired consistency. Desired consistency varies with type of application (trowel or gun), substrate (paper-backed lath or block) and whether the stucco is applied to a wall or a ceiling.

C. Adhesives/Base Coats:

1. AB/C Base Coat: Mix base coat with a clean, rust-free paddle and drill until thoroughly blended, before adding Portland cement. Mix one-part (by weight) Portland cement with one-part base coat. Add Portland cement in small increments, mixing until thoroughly blended after each additional increment. Clean, potable water may be added to adjust workability.
2. AB/C 1-STEP Base Coat: Mix and prepare each bag in a 5-gallon (19-liter) pail. Fill the container with approximately 5.6-liters (1.5-gallons) of clean, potable water. Add Base Coat in small increments, mixing after each additional increment. Mix Base Coat and water with a clean, rust-free paddle and drill until thoroughly blended. Additional AB/C 1-STEP Base Coat or water may be added to adjust workability.

D. **STUCCOPRIME Primer:** Thoroughly mix the factory-prepared STUCCOPRIME with a paddle and drill to a uniform consistency. A small amount of clean, potable water may be added to adjust workability.

E. **Finestone Finishes:** PEBBLETEX, AGGRELASTIC, PEBBLETEX TERSUS, CHROMA and ENCAUSTO VERONA Finish: Mix the factory-prepared material with a clean, rust-free paddle and drill until thoroughly blended. A small amount of clean, potable water may be added to adjust workability. Do not overwater.

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- F. Specialty Finish:** AURORA TC-100, AURORA STONE and ALUMINA Finish: Gently mix the contents of the pail for 1 minute using a low RPM 1/2" drill equipped with a mixing paddle such as a Demand Twister or a Wind-lock B-MEW, B-M1 or B-M9.

3.04 APPLICATION

NOTE TO SPECIFIER: Keep only the products in this section which were selected in Section 2.02. Delete those not to be utilized.

A. Water-Resistive Barrier:

1. Install according to the specific water resistive barrier manufacturer's specifications and all applicable building code requirements. The water resistive barrier shall be free of any damage such as holes or breaks and must be applied to all surfaces to receive the Finestone Stucco Wall System. Wrap the water resistive barrier into rough openings (doors, windows, etc.) in accordance with Finestone's *Secondary Moisture Protection Barrier Guidelines for Finestone Stucco Wall System* bulletin to increase the level of moisture protection to the building frame and interior. Coordinate work with other trades to assure proper sequencing, detailing and installation of materials.

B. EPS Insulation Board

1. Begin at base of wall, apply horizontally in running bond pattern. Precut insulation board to fit openings and projections and install as a single piece around corners of openings. Stagger vertical joints, corners and at sheathing joints. Abut all joints and ensure an overall flush surface. With appropriate fastening system, secure insulation board with minimum two fasteners per board. Rasp flush any irregularities that would interfere with proper application of lath.

C. Trim Junction:

- G.** When two pieces of trim abut: Set intersection of trim in a minimum 4" (100 mm) bed of acceptable trim sealant. Allow 1/8"-3/16" (3-5 mm) gap between the abutting trim pieces. Do not overlap trim. Attach the trim in accordance with manufacturer's specifications, true expansion joints must be fastened to the structural substrate.

1. When two or more pieces of trim intersect: The vertical trim piece shall be continuous with all horizontal pieces. Miter all corners at intersections of trim, set intersection of trim in a minimum 4" (100 mm) bed of acceptable trim sealant. Allow 1/8"-3/16" (3-5 mm) gap between the intersecting trim pieces. Do not overlap the trim. Attach the trim in accordance with manufacturers' specifications.

NOTE TO SPECIFIER: It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion and control joint placement, width and design.

D. Application Over Open Framing:

1. The weather-resistive membrane is placed over open wood or steel framing spaced a maximum of 24" (610 mm) on center. Wall bracing, in accordance with the applicable code, shall be installed. Square wall corners and parapet corners, metal corner reinforcement are optional. The expanded polystyrene insulation board 2' x 8' (610 mm x 2438 mm) tongue-and-groove shall be placed horizontally with the tongue facing upward and temporarily held in place with galvanized staples or roofing nails. Self-tapping screws shall be used to temporarily fasten the board to metal framing. Vertical butt joints shall be staggered a minimum of one framing space from the adjacent courses and occur directly over framing.
2. The lath shall be applied tightly over the insulation board and shall be fastened through the board to wood framing with minimum 2" (50 mm) long, No. 11 gauge [0.148" (3.75 mm) shaft diameter, 0.438" (11.1 mm) head diameter], galvanized roofing nails or No. 16 gauge [1.59 mm (0.0625") shaft diameter] galvanized staples spaced a maximum of 6" (152.4 mm) on center with a minimum 25.4 mm (1") penetration into the wood framing. Staples shall have a minimum 1/2" (13 mm) crown width. Stapling shall be utilized only in wood species having a minimum specific gravity of 0.42. The lath shall be fastened to all steel framing members [minimum No. 20 gauge, 0.912 mm (0.0359") thick] using No. 8-18, S-12, pan-head, self-tapping screws spaced a maximum of 15 cm (6") on center to all framing. The screws shall penetrate framing at least 1/4" (6.35 mm). The wire lath shall be applied with minimum 1" (25.4 mm) end laps.

- E. Lath:** (Install in accordance with all local code requirements, applicable standards and procedures)

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1. PERMALATH 1000: Apply with minimum 3" (76mm) overlap at vertical and horizontal edges and overlap on flange of trim accessories. PERMALATH can be applied horizontally or vertically and should be applied such that it is flat and free of ripples, wrinkles, etc. Fastener System type appropriate for application and substrate, refer to the PERMALATH 1000 product bulletin for additional information. Fastener spacing 6" o.c. (152 mm) vertically and 16" o.c. (406 mm) horizontally. Apply STUCCOBASE within 60 days PERMALATH 1000 application.
2. Expanded Metal Lath: The metal lath shall be applied with minimum 1/2" (13 mm) side laps and 1" (25 mm) end laps. When end laps occur between supports, lace or wire ties the ends of the sheets with 0.0475" (1.2 mm) galvanized annealed steel wire. Refer to ASTM C1063 for additional information.
3. Woven/Welded Wire Lath: Wire or lath shall be applied with minimum 1" (25 mm) end laps and side laps. Furring crimps shall occur at maximum 6" (152 mm) intervals each way. Refer to ASTM C1063 for additional fastening information

F. STUCCOBASE/STUCCOBASE PREMIX Base Coat:

1. Finestone Stucco Wall System application at 3/8"-1/2" thickness: Following surface preparation and installation of the lath and accessories apply the STUCCOBASE/STUCCOBASE PREMIX mixture to the approved substrate by hand troweling or machine spraying to a thickness of 3/8" to 1/2", completely embedding the lath. Use rod and darby to level the applied base coat without exposing the lath. After initial set begins and surface has sufficiently hardened, use sponge or hard rubber float as required to fill voids, holes or imperfections, leaving the surface ready to receive Finestone finish coat. At subcontractor's option, the double back method of application, whereby the first and second coats are applied and cured as one system, may be used. If this system is used, the second coat (brown) should be applied as soon as the first coat is rigid. Damp cure for at least 48 hours by lightly and evenly fogging the surface with water at least twice a day. Direct sunlight, hot temperatures, low humidity and windy conditions may make additional fogging necessary. Allow STUCCOBASE/STUCCOBASE PREMIX to cure a minimum of 6 days prior to application of EPS insulation board shapes or STUCCO PRIME and finish coat application.
2. Finestone Stucco Wall System application 3/4"-7/8" thickness: Total thickness of base coats must meet code requirements for fire rated construction. Nominal plaster base coat thickness: first coat "scratch" 3/8"-1/2", second coat "brown": 3/8"-1/2". Apply STUCCOBASE/STUCCOBASE PREMIX mixture to the approved substrate by hand troweling or machine spraying with sufficient force to develop full adhesion between STUCCOBASE/STUCCOBASE PREMIX mixture and the substrate. Apply first coat to completely embed lath. Cross rake slightly to provide key for second brown coat. Coat must be uniform in thickness. Ensure the first coat is properly "scratched" and sufficiently rigid to resist cracking prior to application and leveling of the second or "brown" coat. Apply second brown coat to provide the required total thickness. Trowel STUCCOBASE/STUCCOBASE PREMIX into trim to seat trim. The lath shall be fully embedded in the coating and shall be completely covered. Coat must be uniform in thickness. Rod off to desired thickness, leveled with screeds, to provide a true, flat plane. Follow this by wood floating or darbying the surface. After surface has sufficiently hardened, use sponge or hard rubber float as required to fill voids, holes or imperfections, leaving the surface ready to receive Finestone finish coat. Damp cure for at least 48 hours by lightly and evenly fogging the surface with water a least twice a day. Direct sunlight, hot temperatures, low humidity and wind may make additional fogging necessary. Allow STUCCOBASE/STUCCOBASE PREMIX to cure a minimum of 6 days prior to application of EPS insulation board shapes or STUCCOPRIME and finish coat application.

G. STUCCOPRIME Primer: Apply to STUCCOBASE or "brown" coat with a sprayer, 3/8" (10mm) nap roller or good-quality latex paint brush at a rate of approximately 150-250ft² per gallon (3.6-6.1m² per liter). STUCCOPRIME shall be dry to the touch before proceeding with the Finestone finish coat application.

H. Decorative Shapes:

1. Apply mixed base coat to entire surface of insulation board using a stainless-steel trowel with 1/2"x1/2" (13mm x 13mm) notches spaced 1/2" (13mm) apart or 3/8"x3/8" (10mm x 10mm) notches spaced 3/8" (10 mm) apart. Immediately set shape into place and apply pressure over entire surface of board to ensure positive uniform contact and high initial grab. Do not allow base coat to dry prior to installing. Abut all joints tightly and ensure overall flush level surface. Check adhesion periodically by removing a shape prior to set. Properly installed shapes will be difficult to remove

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and Finestone adhesive/base coat will be adhered to both the surface of the stucco and the shape. Fill 1/16" (1.6mm) and larger gaps between shapes with slivers of insulation board. Allow application of shapes to dry (normally 8 to 10 hours) prior to application of base coat/reinforcing mesh. Rasp flush any irregularities of the shapes greater than 1/16" (1.6 mm). Finestone base coat/reinforcing mesh: base coat shall be applied so as to achieve reinforcing mesh embedment with no reinforcing mesh color visible.

I. Adhesive/Base Coat:

1. As a base coat: apply a skim coat of Finestone base coat, approximately 1/16" (1.6mm) thick to properly cured "brown coat" of stucco base coat.
2. As an adhesive: Apply mixed base coat to entire surface of insulation board using a stainless steel trowel with 1/2"x1/2" (13mm x 13mm) notches spaced 1/2" (13mm) apart or 3/8"x3/8" (10mm x 10mm) notches spaced 3/8" (10 mm) apart.

J. DIAMONDSHIELD Stucco Reinforcing Mesh:

1. Base coat shall be applied to achieve reinforcing mesh embedment with no reinforcing mesh color visible.
2. Install DIAMONDSHIELD over properly cured Finestone Stucco Plus Wall System "brown coat" of stucco base.
3. Apply mixed Finestone Base Coat to entire surface of "brown coat" with a stainless-steel trowel to embed the reinforcing mesh.
4. Immediately place DIAMONDSHIELD Reinforcing Mesh against wet base coat and embed the reinforcing mesh into the base coat by troweling from the center to the edges.
5. Lap reinforcing mesh 2 1/2" (64 mm) minimum at edges.
6. Ensure reinforcing mesh is continuous at corners, void of wrinkles and embedded in base coat so that no reinforcing mesh color is visible.
7. If required, apply a second layer of base coat to achieve total nominal base coat/reinforcing mesh thickness of 1/16" (1.6 mm).
8. Allow base coat with embedded reinforcing mesh to dry hard (normally 8 to 10 hours).

K. Finestone Finish Coat: PEBBLETEX, AGGRELASTIC, PEBBLETEX TERSUS and CHROMA Finish

1. Apply Finestone Finish directly to the base coat with a clean, stainless steel trowel.
2. Apply and level Finestone Finish during the same operation to minimum obtainable thickness consistent with uniform coverage.
3. Maintain a wet edge on Finestone Finish by applying and texturing continually over the wall surface.
4. Work Finestone finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area.
5. Float Finestone Finish to achieve final texture.

L. Specialty Finish:

1. AURORA TC-100 Finish:
 - a. Apply TINTED PRIMER by Master Builders Solutions to substrate in accordance with current product bulletin. Primer shall be of corresponding color for selected AURORA TC-100 Finish color. Allow Primer to dry to the touch before proceeding Finish application.
 - b. Apply a tight coat of finish with a clean, stainless steel trowel.
 - c. Maintain a wet edge on finish by applying and leveling continually over the wall surface.
 - d. Work finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area. Allow first coat to set until surface is completely dry prior to applying a second coat of finish.
 - e. For a smooth appearance, use a stainless-steel trowel and apply the second coat of finish. Achieve final texture using circular motions.
 - f. For a textured appearance, apply the second coat of finish using a spray gun and hopper. Double-back to achieve final texture.
 - g. Total thickness of finish shall be approximately 1/16 (1.6 mm).
2. AURORA STONE Finish:
 - a. Apply TINTED PRIMER by Master Builders Solutions to substrate in accordance with current product bulletin. Primer shall be of corresponding color for selected AURORA STONE Finish color. Allow Primer to dry to the touch before proceeding Finish application.
 - b. Apply a coat of Finish using a spray gun and hopper, maintaining a wet edge. Work to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall

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- area.
- c. Allow first coat of AURORA STONE Finish to set until surface is completely dry prior to applying a second coat of Finish.
- d. Apply a second coat of Finish using a spray gun and hopper; double back to achieve final texture.
- e. Thickness of Finish may vary between 1/16" (1.6 mm) and 1/8" (3.2 mm), depending upon texture.

Note: Spraying of AURORA STONE shall be in the same manner and direction and by the same mechanic on a particular elevation or project whenever possible, to maintain a uniform appearance. Maintain consistent air pressure to minimize texture variations. Stator or rotor design pumps are not recommended.

- 3. ALUMINA Finish:
 - a. Apply TINTED PRIMER by Master Builders Solutions to substrate in accordance with current product bulletin. Primer shall be of corresponding color for selected ALUMINA Finish color. Allow Primer to dry to the touch before proceeding Finish application.
 - b. Apply a tight coat of finish with a clean, stainless steel trowel.
 - c. Maintain a wet edge on finish by applying and leveling continually over the wall surface.
 - d. Work finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area. Allow first coat to set until surface is completely dry prior to applying a second coat of finish
 - e. Use a stainless-steel trowel and apply the second coat of finish. Achieve final texture using circular motions
 - f. Total thickness of finish may be between 1/16" (1.6 mm) and 1/8" (3.2 mm).

3.05 CLEANING

- A. Clean work under provisions of Section [01 74 00] [].
- B. Clean adjacent surfaces and remove excess material, droppings, and debris.

3.06 PROTECTION

- A. Protect base coat from rain, snow and frost for 48–72 hours following application.
- B. Protect installed construction under provisions of Section [01 76 00] [].

END OF SECTION

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WARRANTY

Master Builders Solutions US, LLC (hereinafter "Master Builders Solutions") warrants this product to be free from manufacturing defects and to meet the technical properties on the current Product Bulletin, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. MASTER BUILDERS SOLUTIONS MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of Master Builders Solutions. In the absence of an extended warranty issued by Master Builders Solutions, any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. Master Builders Solutions WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

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