

Finestone Platinum CI Stucco System - Section 092423

Specification for 2 and 3 coat impact-resistant continuously insulated (CI) premium cement plaster stucco system featuring a fluid-applied air/water-resistive barrier.

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. Items in brackets indicate a system option or choice of options. Throughout the specification, delete those which are not required or utilized.

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 Master Builders Solutions Construction Systems US, LLC - (hereinafter 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 to Master Builders Solutions published comments.

DESIGNING AND DETAILING A FINESTONE PLATINUM CI 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 DensGlass™ and DensElement, eXP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, Weather Defense™ Platinum sheathing, and GreenGlass® sheathing; gypsum sheathing (ASTM C79/C1396); Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB or Huber ZIP.
2. The substrate systems shall be engineered with regard to structural performance by others.
3. Refer to Finestone's *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 Platinum CI 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, and at the base of the wall and anywhere else required by local code.
 - b. 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.
 - c. Vapor Diffusion and Condensation: Perform a dew point analysis of the wall assembly to determine the potential for accumulation of moisture in the wall assembly as a result of water vapor diffusion and condensation. Adjust insulation thickness and/or other wall assembly

components accordingly to minimize the risk of condensation. Avoid the use of vapor retarders on the interior side of the wall in warm, humid climates.

- D. Color Selection:** The use of dark colors over expanded polystyrene (EPS) trim shapes must be considered in relation to wall surface temperature as a function of local climate conditions. Select Finish Color with a light reflectance value (LRV) of 20% or higher. The use of dark colors (LRV less than 20%) is not recommended with EPS trim shapes as EPS has a sustained service temperature limitation of approximately 71°C (160°F).
- 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 6" (150 mm) clearance above grade or as required by code, a minimum 2" (50.8mm) clearance above finished grade (sidewalk/concrete flatwork).

F. Decorative Shapes, Projecting Architectural Features:

NOTE TO SPECIFIER: Installation of the Finestone Platinum CI Stucco wall system with decorative shapes that incorporate EPS outside the slope guidelines referenced in this specification may still qualify for a standard warranty; however, increased maintenance and premature deterioration of the trim shapes shall be expected and any deleterious effects caused by the lack of slope will not be the responsibility of Master Builders Solutions. The design professional has the option to build per his/her project needs. The design professional must also consider geography, climate, building orientation, wall orientation and adjacent building components when designing with EPS trim shapes. 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.

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.

NOTE TO SPECIFIER: Finestone Platinum CI Stucco wall systems were designed and tested to be applied to vertical surfaces. As the slope of the system application decreases, the chance for premature deterioration of any wall system increases. 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, floor lines of wood frame construction or steel framed with slip track, where substrates change, at termination at dissimilar materials and where structural movement is anticipated. Detail specific locations in construction drawings.
2. Control joints are required at a minimum of every 144ft² (13m²) of wall surface area and where specified by the design professional. The maximum uncontrolled length or width is 18 lineal feet (5.5 lineal meters) and a maximum uncontrolled length to width ratio of 2 1/2: 1. Detail specific locations in construction drawings.

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. Sealant joints are required at all penetrations through the Finestone Platinum CI Stucco wall system (windows, doors, lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.). Refer to Finestone Platinum CI Stucco wall system typical details.

3. 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 Platinum CI Stucco wall system typical details. The Finestone Platinum CI Stucco wall system must be terminated a minimum of 1" (25mm) above wood decks.

I. Coordination with other trades:

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. Air seals are needed between the primary air/water-resistive barrier and other wall components (penetrations, etc.) to maintain continuity of an air barrier system.

3. Provide protection of rough openings in accordance with *Air/Water-Resistive/Vapor Barrier Application Guidelines* technical bulletin before installing windows, doors, and other penetrations through the wall.
4. Install copings and sealant immediately after installation of the Finestone Platinum CI 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.

PART 1 – GENERAL

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 such work is specifically mentioned herein.
- B. Platinum CI Stucco Wall System: A composite insulated stucco wall system consisting of a air/water-resistive barrier, rigid insulation, PERMALATH 1000 or acceptable expanded metal or wire lath, STUCCOBASE/ STUCCOBASE PREMIX by Master Builders Solutions, Finestone Base Coat (if specified), Finestone Reinforcing Mesh (if specified) 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 Platinum CI 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 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. ASTM C847 Standard Specification for Metal Lath
- E. ASTM C933 Standard Specification for Welded Wire Lath
- F. ASTM C1032 Standard Specification for Woven Wire Plaster Base
- G. ASTM C1764 Standard Test Methods for Non-Metallic Plaster Bases (Lath) used with Portland Cement Based Plaster in Vertical Applications
- H. ASTM C1787 Standard Specification for Installation of Non-Metallic Plaster Bases (Lath) used with Portland Cement Based Plaster in Vertical Applications
- I. ASTM C1788 Standard Specification for Installation of Non-Metallic Plaster Bases (Lath) used with Portland Cement Based Plaster in Vertical Applications
- J. ASTM D1784 Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (PVC) Compounds
- K. ICC-ES AC11 Cementitious Exterior Wall Coatings
- L. CCRR 0230 Intertek Code Compliance Research Report STUCCOBASE™/ STUCCOBASE™ PREMIX by Master Builders Solution
- M. CCRR 0249 Intertek Code Compliance Research Report (PERMALATH 1000)
- N. ESR-3463 ICC Evaluation Service, LLC, ES Report™ (NEOPOR® Rigid Insulation Board)
- O. ESR-2986 ICC Evaluation Service, Inc., ES Report™ (FINESTOP RA/RS)

1.04 SUBMITTALS

- A. Submit under provisions of Section [01 33 00]

- B. Product Data: Provide data on Finestone Platinum CI Stucco wall system materials, product characteristics, performance criteria, limitations and durability.
- C. Code Compliance: Provide manufacturer's applicable code compliance report.
- D. Samples: Submit [\[two\] \[x\] \[inch\] \[centimeter\]](#) size samples of Finestone Platinum CI Stucco wall system illustrating Finestone Finish color and texture range.
- E. Certificate: System manufacturer's approval of applicator.
- F. Sealant: Sealant manufacturer's certificate of compliance with ASTM C920.
- 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, [\[x\] \[feet\] \[meters\]](#) in size of system materials illustrating method of attachment, Finestone 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, air/water-resistive barrier, rigid insulation, plaster base, stucco base, base coat (if specified), reinforcing mesh (if specified), primer (if specified), finish coat and typical sealant/flashing conditions.

E. Testing

1. Platinum CI Stucco System and Component Performance:

TEST	METHOD	CRITERIA	RESULTS
Surface Burning	ASTM E84	Flame Spread < 25 Smoke Development < 450	System components meet Class A: Flame spread <25 Smoke developed <450
Behavior of materials in a vertical tube furnace at 750° C	ASTM E136	Weight loss <50%, no flaming in first 30 seconds	StuccoBase by Master Builders Solutions pass
Freeze-thaw Resistance	Per ICC-ES acceptance criteria AC-11	No sign of deleterious effects after 10 cycles	STUCCOBASE by Master Builders Solutions passed with no visible evidence of deterioration when examined under 5x magnification
Water Vapor Transmission	ASTM E96 - Wet Cup	Report Value	STUCCOBASE by Master Builders Solutions 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 by Master Builders Solutions
Flexural Strength	ASTM C348	Report Value	4.57 MPa (663 psi) average for STUCCOBASE by Master Builders Solutions
Surface Burning	ASTM E84	Report Value	<25 Flame Spread <450 Smoke Developed Includes PermaLath 1000, StuccoBase, and Finestone Finishes

2. ASTM E330 Wind-Load

Assembly Description	Average Ultimate Loads
3 5/8" 16 GA steel studs 16" OC, 1/2" gypsum sheathing, awrb, acceptable rigid insulation board, lath, minimum 1/2" StuccoBase by Master Builders Solutions	-10.8 kPa (-226 PSF) +11.8 kPa (+226 PSF) * *Positive failure could not be reached.

	All failures in framing
2" x 4" wood studs 16" OC, 7/16" OSB, FINESTOP RA/RS/VB, acceptable rigid insulation board, lath, minimum 1/2" StuccoBase by Master Builders Solutions	-10.4 kPa (-218 PSF) +10.9 kPa (+228 PSF) All failures in framing

3. NFPA 285 and NFPA 268 Compliant Assemblies:

WALL COMPONENTS	MATERIALS
Base wall system – Use either 1, 2 or 3	1. Concrete wall 2. Concrete Masonry wall 3. 1 layer – 1/2-inch thick, regular or 5/8-inch thick Type X Gypsum wallboard on interior, installed over steel studs: minimum 3 5/8-inch depth, minimum 20-gauge at a maximum of 16-inch OC with lateral bracing every 4- ft. vertically
Floorline Firestopping	4 lb/cu ft. mineral wool (e.g. Thermafiber) in each stud cavity at each floorline – attached with Z-clips or equivalent
Cavity Insulation – Use either 1 or 2	1. None 2. Any noncombustible insulation (faced or unfaced)
Exterior sheathing – Use either 1 or 2	1. 1/2-inch thick, exterior type gypsum sheathing 2. 5/8-inch thick, exterior type gypsum sheathing
Air/water-resistive barrier applied to exterior sheathing	Finestone FINESTOP RA/RS/VB, No. 15 Asphalt felt -ASTM D226, Type 1 – one layer, Dupont Tyvek Stucco Wrap, Dow WeatherMate or WeatherMate Plus, CertainTeed CertaWrap.
Exterior insulation – Use either 1, 2, 3, 4 or 5	1. Expanded Polystyrene Foam (EPS) – C578 Type II & be Class A per ASTM E84– maximum thickness of 2.5-inches 2. Expanded Polystyrene Foam (EPS) – C578 Type IX & be Class A per ASTM E84– maximum thickness of 1.8-inches 3. BASF Neopor expanded polystyrene foam - C578 Type II & be Class A per ASTM E84– maximum thickness 2.4-inches 4. Extruded Polystyrene Foam (XPS) – C578 Type X or Type IV & be Class A per ASTM E84 – maximum thickness – See Note 1 5. Polyisocyanurate Foam - C1289 compliant & be Class A per ASTM E84 – maximum thickness – see Note 1
Lath	1. PERMALATH 1000 glass fiber lath 2. Metal lath – either 2.5 lb/yd ² or 3.4 lb/yd ² 3. Wire lath – either 1 1/2-inch, 20-gauge or 1-inch, 17-gauge
Stucco	StuccoBase by Master Builders Solutions - minimum 1/2-inch thick
Finish Coat	Finestone Finish

NOTE – The potential heat of the foam plastic insulation at the maximum installed thickness must not exceed 4999 Btu/ft² as determined in accordance with NFPA 259.

4. ASTM E119 1-hour Fire Resistant Compliant Assembly

WALL COMPONENTS	MATERIALS
Interior gypsum wall board	Any minimum 5/8" thick Type X gypsum wallboard complying with ASTM C1396
Steel Framing	Minimum 3 5/8" deep, minimum 20-gauge steel studs spaced a maximum of 24" on center
Wall cavity insulation - use either 1,2, or 3	1. None 2. Fiberglass batt insulation (faced or unfaced) 3. Mineral wool insulation (faced or unfaced)
Exterior sheathing	Any minimum 5/8" thick Type X exterior sheathing complying with ASTM C1396 and/or ASTM C1177
Air/water-resistive barrier applied to exterior sheathing	Finestone FINESTOP RA/RS/VB, No. 15 Asphalt felt -ASTM D226, Type 1 – one layer, Dupont Tyvek Stucco Wrap, Dow WeatherMate or WeatherMate Plus, CertainTeed CertaWrap.
Continuous Insulation	1. Expanded Polystyrene Foam (EPS) – C578 Type II & be Class A per ASTM E84– maximum thickness of 2.5-inches 2. Expanded Polystyrene Foam (EPS) – C578 Type IX & be Class A per ASTM E84– maximum thickness of 1.8-inches 3. BASF Neopor expanded polystyrene foam - C578 Type II & be Class A per ASTM E84– maximum thickness 2.4-inches 4. Extruded Polystyrene Foam (XPS) – C578 Type X or Type IV & be Class A per ASTM E84 – maximum thickness – See Note 1 5. Polyisocyanurate Foam - C1289 compliant & be Class A per ASTM E84 – maximum thickness – see Note 1
Lath - use either 1,2, or 3	1. PERMALATH 1000 glass fiber lath 2. Metal lath – either 2.5 lb/yd ² or 3.4 lb/yd ² 3. Wire lath – either 1-1/2 inch, 20-gauge or 1-inch, 17-gauge

Stucco	Stucco Base - minimum 1/2 inch thick
Finish Coat	Finestone Finish

NOTE – The potential heat of the foam plastic insulation at the maximum installed thickness must not exceed 4999 Btu/ft² as determined in accordance with NFPA 259.

1.06 DELIVERY, STORAGE AND HANDLING – FINESTONE/MASTER BUILDERS SOLUTION MATERIALS

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

1.07 PROJECT/SITE CONDITIONS

- A. Do not apply Master Builders Solutions materials in ambient temperatures below 40°F/4°C (50°F/10°C for AURORA STONE, AURORA TC-100, 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, ALUMINA finish) prevail.
- B. Do not apply to frozen surfaces.
- C. 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 Platinum CI Stucco wall system installation and until dry.
- D. Protect installed product from precipitation and other sources of moisture for minimum of 24 hours and until dry.

1.08 SEQUENCING AND SCHEDULING

- A. Coordinate and schedule installation of Finestone Platinum CI Stucco wall system with related work of other sections.
- B. Coordinate and schedule installation of trim, flashing, and joint sealers to prevent water infiltration behind the system.

1.09 WARRANTY

- A. Provide Master Builders Solutions – Finestone standard warranty for Finestone Platinum CI Stucco wall system installations under provisions of Section [01 70 00]. Warranty term varies with system component's configuration, reference Finestone *Warranty Schedule* technical bulletin for specific information.
- B. Comply with Master Builders Solutions notification procedures to assure qualification for warranty.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Finestone Platinum CI Stucco wall system manufactured by Master Builders Solutions.

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)

1. In accordance with the 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 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. Insulation Board: (Required, Select One)

NOTE TO SPECIFIER: Water-resistive barriers other than FINESTOP RA/RS/VB, Tyvek StuccoWrap and DrainWrap require grooved rigid insulation board. Grooves are 1/8" wide x 1/4" deep (3.2 mm wide x 6 mm deep) at 12" oc (305 mm oc), parallel to the 2' (610 mm) dimension.

1. Expanded polystyrene; ASTM C578, Type II.
 - a. Flame spread less than 25, smoke developed less than 450 per ASTM E84, UL 723.
 - b. Flexural: 35 psi, compressive: 15 psi, minimum thermal resistance 4.0/inch at 75°F (24°C) .
 - c. Minimum density 1.35 lb./ft³ (18.42 kg/m³)
 - d. Minimum thickness as indicated on drawings minimum 3/4" (19 mm).
 - e. Air-dried (aged) six weeks, or equivalent, prior to installation.
 - f. Edges: square within 1/32" per ft. (0.8 mm per m).
 - g. Thickness: tolerance of +/- 1/16" (1.6 mm).
 - h. Maximum Size: 2' x 8' (61 cm x 2.44 m x 10 cm).
 - i. Length and width: tolerance of +/- 1/16" (1.6 mm).
 2. NEOPOR® Rigid Insulation Board: thermal resistance values R5, R 7.5, R10 or custom thickness, meets ASTM C578 Type II
 - a. Flame spread less than 25, smoke development less than 450 ASTM E84,
 - b. Flexural: 40 psi, compressive: 20 psi, minimum thermal resistance 4.6/inch at 75°F (24°C).
 - c. Minimum density 1.45 pcf (23.2 Kg/m³).
 - d. Air-dried (aged) six weeks, or equivalent, prior to installation.
 - e. Maximum size 2' x 8' (61 cm x 2.44 m x 10 cm).
 - f. Edges square within 1/32"/ft. (.08mm/0.3m)
 - g. Tolerance width 24" (+/-) 1/16" (61cm (+/-) 1.6mm) and length 96" (+/-) 1/8" (2.44m (+/-) 3mm).
 3. Extruded polystyrene; ASTM C578, Type IV.
 - a. Flame spread less than 25, smoke developed less than 450 per ASTM E84, UL 723.
 - b. Flexural: 50 psi, compressive: 25 psi, minimum thermal resistance 5/inch at 75°F (24°C).
 - c. Minimum density 1.55 lb./ft³ (25 kg/m³)
 - d. Minimum thickness as indicated on drawings minimum 19 mm (3/4").
 - e. Air-dried (aged) six weeks, or equivalent, prior to installation.
 - f. Edges: square within 1/32" per ft. (0.8 mm per m).
 - g. Thickness: tolerance of +/- 1/16" (1.6 mm).
 - h. Maximum Size: 2' x 8' (61 cm x 2.44 m x 10 cm).
 - i. Length and width: tolerance of +/- 1/16" (1.6 mm).
 4. Polyisocyanurate insulation board
 - a. Nominal density 32 kg/m³ (2 lbs. /ft³).
 - b. Minimum thickness as indicated on drawings 25mm (1").
 - c. Size: 1.22 m x 2.44 m, 1.22 m x 2.74 m (4' x 8', 4' x 9'), or other size as provided by insulation board manufacturer.
 - d. Edges: Square within 4 mm (3/16") (1.22 m x 2.44 m / 4' x 8').
 - e. Thickness: tolerance of less than 1.6 mm (1/16") (25 mm / 1" thick).
 - f. Length: Tolerance of plus or minus 6 mm (1/4") (1.22 m x 2.44 m / 4' x 8').
 - g. Width: Tolerance of plus or minus 1.6 mm (1/16") (1.22 m x 2.44 m / 4' x 8').
- C. Decorative Shapes: (Optional)** Expanded polystyrene; ASTM C578, Type I or II; Minimum thickness 3/4" (19 mm)
- D. Lath/Plaster Base: (Required, Select One)**
- NOTE TO SPECIFIER: Ensure selection of the appropriate Lath based on specified thickness of the Finestone Platinum CI Stucco wall system. Delete those products not utilized. Reference Finestone Lath & Trim Accessories System support bulletin for additional information.**
1. PERMALATH 1000: An open weave, three-dimensional self-furring, nominal 1/4" thick glass fiber reinforcing lath is for use with a minimum stucco thickness of 1/2" (12.7mm). Complies with ASTM C1764, C1787 and C1788.

2. Woven or Welded Wire Lath: A minimum No. 20 gauge, 25.4 mm (1") galvanized woven wire fabric is for use with 9.5-12.7mm (3/8"-1/2") thickness stucco only. Other 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 1.36 kg/m² (2.5 lbs./yd²). Refer to ASTM C 1063 for additional information.

E. Fastening for Rigid Insulation Board and Lath/Plaster Base: (Required, Select One or More)

1. Masonry: Minimum 3/16" (4.7mm) diameter corrosion resistant masonry Wind-lock type MT fastener with Wind-lock ULP 302 washer, Lath Plates or equal with 3/4" (19 mm) minimum penetration into masonry.
2. Steel framing (minimum 20 ga (33 mil): Minimum # 8 or greater corrosion resistant screw with Wind-lock ULP 302 washer, Lath Plate or equal with 5/8" (16 mm) minimum penetration into framing.
3. Wood framing: Minimum 3mm (.120") shank corrosion resistant nail 6.9mm (.271") head with Wind-lock ULP 302 washer, Lath Plate or equal with minimum 1 1/4" (31.8mm) penetration into framing or minimum # 8 corrosion resistant wood screw with Wind-lock ULP 302 washer, Lath Plate or equal with minimum 1" (25mm) penetration into framing.

F. 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.

G. Plaster Sand: (Required if STUCCOBASE is retained above) 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

H. Water: Clean and potable without foreign matter.

I. Finestone Adhesive/Base Coat: (Required for Trim Shapes and Reinforcing Mesh)

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 is Selected) Conform to ASTM C150, Type I, II, or I/II, grey or white; fresh and free of lumps.

K. DIAMONDSHIELD Stucco Reinforcing Mesh by Master Builders Solutions: 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.

L. Finestone STANDARD MESH 4 Reinforcing Mesh: (Required if EPS Trim Shapes Are Specified) A 4 oz. balanced, open-weave glass, fiber reinforcing mesh, twisted multi-end strands treated for compatibility with Finestone Base Coats

M. STUCCO PRIME by Master Builders Solutions: A 100% acrylic-based primer that help alleviate shadowing and reduces chances of efflorescence with standard finishes; color [] to closely match the selected Finestone Finish Color.

NOTE TO SPECIFIER: STUCCO PRIME is recommended for Natural Swirl finish texture. Although optional in other applications, Finestone highly recommends the use of STUCCO PRIME prior to application of Finestone Finish over applications of Finestone Platinum CI Stucco Plus wall system "brown coat". The application of STUCCO PRIME will enhance color

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

N. TINTED PRIMER by Master Builders Solutions: A 100% acrylic-based primer that is and required for AURORA TC-100, AURORA STONE and ALUMINA finishes; color [] to closely match the selected finish color.

O. 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:
 - 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

- O. [ANTICOGLAZE Glaze/Stain by Master Builders Solutions: A 100% acrylic antiquing stain product used to impart an 'old world' mottled look to textured finishes.](#)

2.03 ACCESSORIES

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* technical bulletin for additional information.

1. C-I Weep Track by Clark Dietrich or AMICO: For returning insulated stucco into doors windows, etc.
2. Foundation weep screed: Beveled edge designed to terminate finish system and drain internal moisture.
3. Casing bead: Square edge style.
4. Corner bead: Small radius nose style.
5. Control joints: W-shaped accordion profile style.
6. Expansion joints: [[Two-piece slip-joint design](#)] or [[pair of casing beads spaced for application of sealant bead](#)].

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify project site conditions under provisions of Section [01 89 00][].

B. Walls:

1. Substrates:
 4. 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 DensGlass[™] and DensElement, eXP[™] sheathing, GlasRoc[®] sheathing, Securock[™] glass-mat sheathing, Weather Defense[™] Platinum sheathing, and GreenGlass[®] sheathing; gypsum sheathing (ASTM C79/C1396); Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB or Huber ZIP.
 - a. Consult the Master Builders Solutions' Technical Services department for all other applications.
 - b. Sheathings must be securely fastened per applicable building code requirements and manufacturers recommendations.
 - c. When applying Finestone Air/Water-Resistive Barriers to concrete/unit masonry, 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. 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 *Secondary Moisture Protection Barrier Guidelines for Finestone Stucco Wall System* technical bulletin or *Air/Water-Resistive/Vapor Barrier Application Guidelines* technical bulletin for further guidance.
 - c. Windows and openings shall be flashed per 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. Roof: Verify that all roof flashings have been installed in accordance with the guidelines set by the Asphalt Roofing Manufacturers Association (ARMA).
4. Kick-out Flashing: 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 Platinum CI 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 Platinum CI 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. Stucco Base Coat:

1. STUCCOBASE: Use mixer which is clean and free of foreign substances. Add 5-6 gallons (18.9-22.7 liters) of clean potable water to mixer per one bag of STUCCOBASE. Add one bag of STUCCOBASE and 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 and then remix 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.

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. Note: Continuous mixing may cause excessive air entrainment.

B. Finestone Base Coat:

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 1.5-gallons (5.6-liters) of clean, potable water. Add AB/C 1 STEP Base Coat in small increments, mixing after each additional increment. Mix AB/C 1 STEP 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.

C. STUCCO PRIME and TINTED PRIMER: 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.

D. 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 exceed 10 oz.

E. 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

A. Accessories:

1. Attach Window/Door Drip Edge level and per manufacturer's instructions.

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

B. Air/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 Platinum CI 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 Platinum CI 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.

C. Insulation Board:

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

D. Trim:

Refer to Finestone *Stucco Wall Systems Lath and Trim Accessories* technical bulletin.

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.

E. Lath: Install in accordance with all local code requirements, applicable standards and application procedures

1. PERMALATH 1000:
 - a. Apply with minimum 3" (76mm) overlap at vertical and horizontal edges and overlap on flange of trim accessories. PERMALATH 1000 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. Fastener spacing 6" o.c. (152 mm) vertically and 16" o.c. (406 mm) horizontally.
 - b. Apply STUCCOBASE within 60 days of PERMALATH 1000 application.
2. Woven/Welded Wire Lath:
 - a. Wire or lath shall be applied with minimum 1" (25 mm) end laps and side laps.
 - b. Furring crimps shall occur at maximum 6" (152 mm) intervals each way.
 - c. Refer to ASTM C1063 for additional fastening information.
3. Expanded Metal Lath
 - a. The metal lath shall be applied with minimum 1/2" (13 mm) side laps and 1" (25 mm) end laps.
 - b. 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.
 - c. Refer to ASTM C1063 for additional fastening information.

NOTE: Supplemental fasteners, in the framing or sheathing, can be used to secure lath prior to application of STUCCOBASE.

F. Stucco Base Coat:

1. Finestone Platinum CI Stucco wall system application 3/8"–1/2" thickness (9.5-12.7 mm).
 - a. Following surface preparation and installation of the lath and accessories apply selected Master Builders Solutions stucco base mixture to the approved substrate by hand troweling or machine spraying to a thickness of 3/8" to 1/2" (9.5-12.77 mm), completely embedding the lath.
 - b. Use rod and darby to level the applied base coat without exposing the lath.
 - c. 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.
 - d. 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.

- e. 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.
 - f. Allow stucco base to cure a minimum of 6 days prior to application of EPS board shapes, Finestone Base Coat, STUCCO PRIME, Tinted Primer or Finestone Finish application.
2. Finestone Platinum CI Stucco wall system application 3/4"–7/8" thickness (19-22mm).
- a. Nominal plaster base coat thickness:
 - i. First coat "scratch": 3/8" (9.5mm)
 - ii. Second coat "brown": 3/8" (9.5mm)
 - b. Apply selected Master Builders Solutions stucco base mixture to the approved substrate by hand troweling or machine spraying with sufficient force to develop full adhesion between stucco base mixture and the substrate.
 - c. Apply first coat to completely embed lath. Cross rake 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.
 - d. Dampen scratch coat, apply second brown coat to provide the required total thickness. Trowel stucco base 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.
 - e. After the 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.
 - f. 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 wind may make additional fogging necessary.
 - g. Allow stucco base to cure a minimum of 6 days prior to application of EPS board shapes, Finestone Base Coat, STUCCO PRIME, TINTED PRIMER or Finestone Finish application.

G. Finestone Adhesive/Base Coat:

NOTE TO SPECIFIER: If specifying the use of reinforcing mesh, move on to the next step and delete H from this section of the specification.

- 1. Apply a skim coat of Finestone Base Coat, approximately 1/16" (1.6mm) thick to properly cured "brown coat" of stucco base.
- 2. Allow to dry hard (normally 8 to 10 hours).

H. DIAMONDSHIELD 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 Platinum CI Stucco 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).

I. Decorative Shapes:

- 1. Apply mixed Finestone Base Coat to entire surface of insulation board using a stainless-steel trowel with 1/2"x 1/2" (13mm x 13mm) notches spaced 1/2" (13mm) apart or 3/8"x 3/8" (10mm x 10mm) notches spaced 3/8" (10 mm) apart.
- 2. 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.
- 3. Abut all joints tightly and ensure overall flush level surface.

4. Check adhesion periodically by removing a shape prior to set. Properly installed shapes will be difficult to remove, and Finestone Adhesive/Base Coat will be adhered to both the Stucco Base and the shape.
5. Fill 1/16" (1.6mm) and larger gaps between shapes with slivers of insulation board.
6. Allow application of shapes to dry (normally 8 to 10 hours) prior to application of base coat/reinforcing mesh.
7. Rasp flush any irregularities of the shapes greater than 1/16" (1.6 mm). Finestone Base Coat / Reinforcing Mesh: Base coat shall be applied to achieve reinforcing mesh embedment with no reinforcing mesh color visible.
8. For Finestone STANDARD MESH, apply Finestone Base Coat to entire surface of insulation board with a stainless-steel trowel to embed the reinforcing mesh.
9. Immediately place Finestone STANDARD MESH 4 Reinforcing Mesh against wet base coat and embed the reinforcing mesh into the base coat by troweling from the center to the edges.
10. Lap reinforcing mesh 2 1/2" (64 mm) minimum at edges and 3" (75 mm) minimum onto STUCCOBASE.
11. Ensure reinforcing mesh is continuous at corners, void of wrinkles and embedded in base coat so that no reinforcing mesh color is visible.
12. If required, apply a second layer of base coat to achieve total nominal base coat/reinforcing mesh thickness of 1/16" (1.6 mm).
13. Allow base coat with embedded reinforcing mesh to dry hard (normally 8 to 10 hours).

J. STUCCO PRIME and TINTED PRIMER:

1. Apply Primer to the base coat/reinforcing mesh with a sprayer, 3/8" (10 mm) nap roller, or good quality latex paint brush at a rate of approximately 150- 250 ft² per gallon (3.6–6.1m² per liter).
2. Primer shall be dry to the touch before proceeding to the Finestone Finish coat application.

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

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 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).

M. ANTICOGLAZE: Apply in accordance with recommendations contained in current product literature.

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 materials from rain, snow and frost for 48-72 hours following application.
- B. Protect Finestone base coat, air/water-resistive barriers, primer and finish from rain and temperatures below 40°F (4°C) for 24 hours or until dry.
- C. Protect installed construction under provisions of Section [01 76 00] [].

END OF SECTION

Finestone Platinum CI Stucco Wall System

WARRANTY

Master Builders Solutions Construction Systems 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.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on Master Builders Solutions' present knowledge and experience. However, Master Builders Solutions assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. Master Builders Solutions reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.