

ecostucco®

"Timeless by nature. Versatile by Design."

Guide Specification: 092523.21 Lime Plaster on Exterior Sheathing

This guide specification specifies ecostucco® stucco lime plaster finish systems for application with metal lath over a variety of exterior sheathing substrates, along with accessories. Related guide specifications are available for other exterior applications and for interior applications over common substrates.

ecostucco® is a collection of pre-mixed architectural lime plasters made with minimal, yet expert preparation. The natural properties of lime make ecostucco a resilient and aesthetically pleasing finish solution to buildings of all styles and ages.

ecostucco® products are formulated for a full range of interior and exterior plaster applications, including:

- Masonry.
- Wet Areas.
- Concrete.
- Interior Gypsum Board.

ecostucco® products also can be applied to specialty substrates such as hempcrete, adobe, and strawbale. Consult with Mediterranean Colors technical department for specific guidelines for these and other innovative applications.

For more information, contact Mediterranean Colors, LLC, San Rafael CA. 94901; [\(415\) 455-9896](tel:4154559896); www.ecostucco.com.

Specifier: Plaster for exterior applications is sometimes referred to as stucco. In this Section, plaster is the predominant term used.

SECTION 092523.21

LIME PLASTER (EXTERIOR, SHEATHING)

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes plaster systems for exterior application with metal lath installed over exterior substrates.

Specifier: Edit the following list of sections applicable to the scope of the Project.

- B. Related Requirements

- 1. Section 061619 – Cementitious / Composite Sheathing.
- 2. Section 061629 – Gypsum Sheathing.
- 3. Section 061623 – Wood Structural Panel Sheathing.
- 4. Section 072500 – Weather Barriers.
- 5. Section 076000 – Flashing and sheet metal.

1.2 REFERENCES

Specifier: If retaining this optional Article, edit list below to correspond to those references retained in edited specification section.

- A. ASTM International (ASTM):

- 1. ASTM C1325 – Cementitious backer units.
- 2. ASTM C1177 – Glass-mat gypsum substrate.
- 3. ASTM C1325 – Cement board.
- 4. ASTM C1288 – Fiber-reinforced gypsum panels.
- 5. ASTM C1186 – Fiber cement panels.
- 6. ASTM C926 - Standard Specification for Application of Portland Cement-Based Plaster.
- 7. ASTM C933 - Standard Specification for Welded Wire Lath.
- 8. ASTM C979 - Standard Specification for Pigments for Integrally Colored Concrete.
- 9. ASTM C1063 - Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster.
- 10. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- 11. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.

- B. International Building Code (IBC).

- 1. IBC Section 1405.4

- C. International Residential Code (IRC).

- 1. IRC Section R703.8.

- D. Portland Cement Association (PCA):
 - 1. PCA – Portland Cement Plaster (Stucco) Manual.
- E. European Standard (EN):
 - 1. EN 459-1 Building Lime – Part 1: Definitions, Specifications and Conformity Criteria.
 - 2. EN 459-2 Building Lime – Part 2: Test Methods.
 - 3. EN 459-3 Building Lime – Part 3: Conformity Evaluation.

1.3 ACTION SUBMITTALS

- A. Product Data: Submit data on plaster materials, characteristics and limitations of products specified.
- B. Shop Drawings: Provide shop drawings. Include full elevations showing openings and penetrations and details of each condition of installation and attachment.
 - 1. Include details drawn at 1-1/2 inches per 12 inches (1:10) scale, showing thickness and dimensions of the system components, including but not limited to the following:
 - a. Details of edge, corner, and termination conditions.
 - b. Attachment system.
 - c. Weep system.
 - d. Fastening and anchoring methods.
 - e. Locations of joints, including movement joints and control joints.
 - f. Trim and flashings.
- C. Samples for Selection: Submit two sets of sealant manufacturer's sealant color charts showing the full range of available selections.
- D. Samples for Verification: Submit two samples, manufacturer's standard size but not less than 8 by 10-inches (254 mm) in size, of each specified plaster finish color and texture.

1.4 CLOSEOUT SUBMITTALS

- A. Manufacturer's Instructions for preventative maintenance of plaster systems.
- B. Manufacturer's warranties: Sample warranties demonstrating compliance with the specified warranty terms

1.5 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Manufacturer: A company specializing in the manufacture and distribution of lime plaster with a minimum of twenty years of experience with a record of successful in-service performance and which has the production and distribution capacity to service the Project.
 - 2. Installer: A company specializing in performing plaster/stucco work with a minimum of five years of experience in the application of lime plaster with a record of successful in-service performance and which employs trained and skilled installers and supervisors.

1.6 MOCK-UPS

- A. Construct mockups in sizes necessary to fully represent the workmanship and critical details of construction. Include, as applicable, a representative edge condition, a representative opening condition, a representative corner condition, joint treatments, and other components necessary for evaluation of the workmanship and compliance with the design intent.
 - 1. Construct mock-ups, 48 by 48 inches (1220 by 1220 mm) in locations approved by the [Architect] [Owner's Representative] for each specified color and texture.
 - 2. Accepted mock-ups may be incorporated into the Work.

1.7 PRE-INSTALLATION MEETING

- A. Convene a meeting at the Project site to review site conditions and coordinate plaster work with affected trades, to review mock-ups, and to review the Construction Schedule.

1.8 ENVIRONMENTAL REQUIREMENTS

- A. Maintain conditions at the Project site to allow plaster to be properly installed and cured.
- B. Schedule plaster work so that minimum ambient temperature of 45 deg. F (7 deg. C) and a maximum of 85 deg. F (29 deg. C) can be maintained for a minimum of 48 hours prior to application and until plaster is cured.
 - 1. Protect plaster work from the effects of adverse weather and excessive temperatures.
 - 2. Protect plaster with protective coverings and other means to prevent uneven and excessive evaporation during dry, hot weather.
 - 3. Provide insulated coverings, temporary heat, and other means to protect plaster work during cold weather.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver all materials to the construction site in their original, unopened packaging with labels intact, and in undamaged condition.
- B. Inspection: Inspect and inventory the materials upon delivery. Report defects or discrepancies to the responsible party according to the Contract Documents. Remove substandard materials from the site and replace them with complying materials.
- C. Storage:
 - 1. Store cementitious materials off the ground, under cover, and in dry locations.
 - 2. Store aggregates where grading and other required characteristics can be maintained, and contamination prevented. Prevent site run-off and other water sources from saturating sand piles.
 - 3. Store plaster accessories including lath, mesh, and metal items to prevent corrosion and accumulation of dirt and oil.

1.10 COORDINATION

- A. Coordinate installation of substrate to ensure work meets tolerance requirements for subsequent application of plaster. Review requirements for joint treatments in the substrate.

1.11 MAINTENANCE

- A. Extra Materials: Provide a sample pack of each installed finish coat color sealed in a moisture-proof container.
 - 1. Source extra materials from the same runs as those manufactured for the Project.
 - 2. Deliver extra materials to the Owner's Representative in protective packaging and label to clearly identify the contents.
 - 3. Deliver extra materials to a location identified by the Owner's Representative upon closeout of the Project and obtain a signed receipt.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Stucco Finish System: Architectural lime stucco finish system for installation with metal lath, over sheathing as follows:
 - 1. Metal lath.
 - 2. Trim accessories.
 - 3. Stucco scratch coat.
 - 4. Stucco brown coat.
 - 5. Stucco finish coat.
 - 6. Finish coat surface treatments (optional).
 - 7. Minimum nominal thickness: 7/8-inch (22 mm).

2.2 MANUFACTURERS AND PRODUCTS

- A. Basis of Design: ecostucco® lime plaster finish system by Mediterranean Colors, LLC - 3060 Kerner Blvd. San Rafael, CA 94901; (415) 455-9896; info@ecostucco.com

2.3 SYSTEM PERFORMANCE REQUIREMENTS

- A. Deflection Limits. Design system to comply with the following:
 - 1. Design for maximum allowable deflection, normal to the plane of the wall, of L/360.
 - 2. Design for wind load in conformance with code requirements.

Specifier: Retain the following system fire performance requirements when required by Authorities Having Jurisdiction.

- B. Multi-Story Fire Performance: Wall assemblies shall meet the requirements of the Intermediate Scale Multi-story test, NFPA 285.
- C. Fire Performance Characteristics: Provide plaster systems with the following fire-test characteristics determined by indicated test standard as applied by UL or other testing and inspection agency acceptable to authorities having jurisdiction.

Specifier: Retain "Surface-Burning Characteristics" Paragraph if required for Project.

- 1. Surface-Burning Characteristics: Provide plaster systems with the following characteristics when tested per ASTM E 84.

- a. Flame spread index: 25 or less.
- b. Smoke developed index: 450 or less.

Specifier: Retain "Fire-Resistance Ratings " Paragraph if required for Project.

2. Fire-Resistance Ratings: Comply with ASTM E 119; testing by a qualified testing agency. Identify products with appropriate labeling.
 - a. Indicate design designations from UL's "Fire Resistance Directory" or from the listings of another qualified testing agency.

2.4 BASE COAT PLASTER

Specifier: **ecostucco® PRIMA** is a formulated lime (FL A3.5) binder composed of hydrated lime, natural hydraulic lime and pozzolan formulated to control batch-to-batch consistency, optimal workability, and slag resistance. PRIMA is used as a plaster scratch and brown (leveling) coat over metal lath and masonry.

- A. **ecostucco® PRIMA**: In compliance with EN-459 and ASTM C-141. Field-mixed with graded sand in compliance with ASTM C144.
 1. Basis of Design Product: **ecostucco® PRIMA**
 2. Sand: Natural or Manufactured Sharp Sand with at least 4 grades forming a substantial part of the sand and no more than 3% of particles smaller than grade #200 (0.075mm).
 3. [Scratch Coat] [Brown Coat]

Specifier: Modify below to suit requirements by choosing one product and one finish, except for the MURALIME finish material, which requires DECOLIME as a base/key coat.

2.5 FINISH COAT PLASTER

Specifier: **ecostucco® DECOLIME** is an architectural lime plaster consisting of hydrated lime, specific minerals, and fine aggregates - all factory-blended to control compliance with specified performance requirements.

- A. **ecostucco® DECOLIME**: Proprietary architectural lime plaster ready to mix with water to achieve a mineral vapor-permeable finish coat over the specified substrate.
 1. Basis of Design Product: **ecostucco® DECOLIME**.
 2. Mixing: Mixed at the site in accordance with manufacturer's written instructions.
 3. Color: Selected by the [Architect] [Owner's Representative].
 4. Finish: [fossil] [sand float] [custom].

Specifier: **ecostucco® MURALIME** is a true Venetian plaster consisting of hydrated lime, specific minerals, and very fine aggregates - all factory-blended to control compliance with specified performance requirements. (Requires DECOLIME as a key coat).

- B. **ecostucco® MURALIME**: Proprietary architectural lime plaster ready to mix with water to achieve a mineral, vapor-permeable finish coat over the specified substrate.
 1. Basis of Design Product: **ecostucco® MURALIME**.
 2. Mixing: Mixed at the site according to the Manufacturer's instructions.
 3. Color: Selected by the [Architect] [Owner's Representative].
 4. Finish: [marble] [sand float] [custom].

Specifier: **ecostucco® TRADILAKT** is an architectural lime plaster consisting of hydrated lime, specific minerals, and fine aggregates - all factory-blended to control compliance with specified performance requirements.

- C. ecostucco® TRADILAKT: Proprietary architectural lime plaster ready to mix with water to achieve a mineral, vapor-permeable finish coat over the specified substrate.
 - 1. Basis of Design Product: ecostucco® TRADILAKT.
 - 2. Mixing: Mixed at the site in accordance with manufacturer's written instructions.
 - 3. Color: Selected by the [Architect] [Owner's Representative].
 - 4. Finish: [Tadelakt] [sand float] [custom]

Specifier: **ecostucco® UNILIME** is an architectural lime plaster consisting of hydrated lime, specific minerals, and slightly coarse aggregates - all factory-blended to control compliance with specified performance requirements.

- D. ecostucco® UNILIME: Proprietary architectural lime plaster ready to mix with water to achieve a mineral, vapor-permeable finish coat over the specified substrate.
 - 1. Basis of Design Product: ecostucco® UNILIME.
 - 2. Mixing: Mixed at the site in accordance with manufacturer's written instructions.
 - 3. Color: Selected by the [Architect] [Owner's Representative].
 - 4. Finish: [limestone] [sand float] [custom]

Specifier: **ecostucco's UNILIME LG** is an architectural lime plaster consisting of hydrated lime, specific minerals, and coarse aggregates - all factory-blended to control compliance with specified performance requirements.

- E. ecostucco® UNILIME LG: Proprietary architectural lime plaster ready to mix with water to achieve a mineral, vapor-permeable finish coat over the specified substrate.
 - 1. Basis of Design Product: ecostucco® UNILIME LG.
 - 2. Mixing: Mixed at the site in accordance with manufacturer's written instructions.
 - 3. Color: Selected by the [Architect] [Owner's Representative].
 - 4. Finish: [travertine] [sand float] [custom]

2.6 FINISH COAT SURFACE TREATMENTS

Specifier: Add **NEXSEAL** where 24-hour chemical and stain resistance to most common contaminants including oil, grease, water, salts, and most common food items are preferred. Finish to treat shall be smooth.

- A. ecostucco® NEXSEAL: Two-component, water based, acrylic-modified polyurethane.
 - 1. Basis of Design Product: ecostucco® NEXSEAL.
 - 2. Mixing: Mixed at the site in accordance with manufacturer's written instructions.
 - 3. Application: Apply in accordance with manufacturer's written instructions.
 - 4. Finish: Clear, satin.
 - 5. VOC: < 50g. / Lt.

Specifier: Add **NEXWAX** where added luster is preferred. Finish to treat shall be smooth.

- B. ecostucco® NEXWAX: Water-based acrylic and wax co-polymer sealer.

1. Basis of Design Product: ecostucco® NEXWAX
2. Application: Apply in accordance with manufacturer's written instruction
3. Appearance: Clear, matte.
4. VOC: Zero

Specifier: Add **SILACRETE** where protection against the elements such as pollution and water-borne salts is required without altering the color and the appearance of the specified finish coat.

C. ecostucco® SILACRETE: Water base penetrating sealer, vapor-permeable and UV-resistant.

1. Basis of Design Product: ecostucco® SILACRETE.
2. Application: Apply in accordance with manufacturer's written instructions.
3. Finish: Invisible.
4. VOC: Zero.

D. REINFORCING MESH

Specifier: Retain self-adhesive fiberglass mesh to reinforce repaired cracks and seams.

A. Reinforcing Mesh: Self-adhesive fiberglass mesh tape

1. Basis of Design: ecostucco® G-MESH TAPE
2. Weight: 2.8 oz. / yd²
3. Width: 9"
4. Tensile Strength: 80 -120 lb. / in.
5. Color: White

Specifier: Retain reinforcing fiberglass mesh fabric where added compressive strength is preferred.

E. Reinforcing Mesh: Fiberglass mesh tape

1. Basis of Design: ecostucco® G-MESH LTE
2. Weight: 4.5 oz. / yd²
3. Width: 38"
4. Leno Weave: 6mm x 6mm
5. Tensile strength: 150-185 lb. / in.
6. Color: White

Specifier: Retain corner mesh bead fabric where impact resistant square corners are preferred.

F. Reinforcing Corner Mesh: 90° plastic bead integrated with reinforcing fiberglass mesh.

1. Basis of Design: ecostucco® COMBO 90
2. Length: 8 linear feet (2.5 m)
3. Mesh Flanges: 4.2 in and 5.1 in (11 x 3 cm)
4. Color: White.

2.7 ACCESSORIES

Specifier: Retain the accessories from this Article as required for the Project.

A. General: Limit products to those manufactured by or approved by the approved plaster system manufacturer for the applications indicated.

1. Provide metal accessories in manufacturer's standard lengths.

Retain lath if used over CMU due to condition of CMU or desired thickness of plaster exceeding 5/8-nch. Select lath type from selections below.

B. Metal Lath:

1. Welded-Wire Lath: self-furring, 1.95 lb./yd². (1.1 kg/m²), complying with ASTM C933.

Specifier: Retain the following subparagraph for applications requiring lath with water-resistive backing.

- a. Where indicated, provide lath manufacturer's vapor-permeable water-resistive paper backing laminated to back side of lath.
2. Expanded Metal Lath: Nominal [2.5 lb./yd² (1.36 kg/m²) [3.4 lb./yd² (1.84 kg/m²)] weight, complying with ASTM C847 and hot-dip galvanized according to ASTM A653/A653M, G90 (Z275) zinc coating.

Specifier: Retain the following subparagraph for applications requiring lath with water-resistive backing.

- a. Where indicated, provide lath manufacturer's vapor-permeable water-resistive paper backing laminated to back side of lath.
3. Rib Lath, for open soffit use: Nominal 3.4 lb./yd² (1.84 kg/m²) weight, galvanized steel complying with ASTM C847.

C. Wire: Zinc-coated carbon steel complying with ASTM A 641.

D. Plastic Accessories: Rigid polyvinyl chloride (PVC) complying with ASTM D1784, cell class 13244C.

Specifier: Retain the appropriate Code reference in the Paragraph below.

E. Flashing: Flashing complying with [IBC Section 1405.4] [IRC Section R703.8].

F. Fasteners: Nails, staples, or screws used shall be [Type 304 stainless steel] [zinc-coated (galvanized) steel] and meet the requirements of ASTM C1063 for the substrates indicated.

G. Metal Accessories: Fabricated from [zinc] [or] [zinc-coated (galvanized) steel]:

1. Corner Aid: Minimum 0.016-inch/26-gauge (0.41 mm) thick; expanded flanges shaped to permit complete embedding in plaster; minimum 2 inches (50.8 mm) wide; [square-edge] [bullnose] style.
2. Strip Mesh: Metal Lath, 3.4 lb./yd² (1.84 kg/m²) expanded metal; dimensions as indicated in approved details.
3. Vent Screed: Minimum 0.016-inch/26-gauge (.41 mm) thick, except where thicker material is recommended by the Manufacturer; minimum 4-inches (102 mm) width, double "V" profile, with perforated expanse between "Vs" of longest possible lengths.
4. Casing Bead: Minimum 0.016-inch/26-gauge (.41 mm) thick, except where thicker material is recommended by the Manufacturer, in manufacturer's standard lengths. Fabricate with expanded metal flanges with square edges.
5. Drip Screed: Minimum 0.016-inch/26-gauge (.41 mm) thick, depth as required to accommodate plaster thickness, minimum 3-1/2-inch (89 mm) high flange.

H. Control and Expansion Joints: Fabricated from galvanized steel sheet, thickness as recommended for applications indicated. Depth as required to accommodate plaster thickness.

1. Expansion Joints: Manufactured two-piece-type formed to produce a slip-joint with removable protective tape on the face of the joint.
2. Control Joints: Control Joints: One-piece-type in [M-shaped] [double-V] configuration with removable protective tape on the face of the joint.

I. Plastic Accessories: Fabricated from high-impact PVC.

1. Cornerbeads: Fabricated with perforated flanges, [square edge] [bullnose] style.
2. Casing Beads: With perforated flanges in depth required to suit plaster bases indicated and flange length required to suit applications indicated.

2.8 SEALANTS

A. Sealants: [Single-component Polyurethane] [or] [Single-component silicone] complying with ASTM C920 and as follows:

1. For vertical surfaces, provide non-sag (NS) sealant formulations.
2. The Architect will select the colors. Submit samples for selection according to Part 1 Action Submittals requirements.

B. Joint Filler Backer Rod: ASTM C1330; round, closed cell polyethylene, non-gassing rod, with surface skin, sized to produce 25% compression when installed in joint.

C. Bond Breaker Tape: Pressure Sensitive.

1. Product: No. 470 or No. 481 Polyethylene; 3M Adhesives, Coatings and Sealers Div.

2.9 PLASTER MIXES

A. Mix plaster components in accordance with manufacturer's written instructions.

1. Mix only as much plaster as can be used prior to initial set.
2. Add color pigments to finish coat.
3. Mix materials dry, to uniform color and consistency, before adding water.
4. Protect mixtures from freezing, frost, contamination, and excessive evaporation.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine with Installer present to verify that substrate is sound and within tolerances appropriate for the application of plaster systems in accordance with the approved manufacturer's written recommendations.

1. Report all objectionable substrate conditions to the [Owner's Representative] [Architect], including but not limited to cracks, broken masonry, missing mortar, coatings, water repellents, exposed metal reinforcement, and other substandard conditions that would adversely affect plaster performance.

B. Verify weather-resistant barriers have been installed and inspected.

C. Proceed with plaster work once substrate is determined to be suitable.

3.2 PREPARATION

- A. Remove foreign matter, dust, efflorescence, lime run, laitance, and other bond-inhibiting substances from substrates.
- B. Use commercial cleaning solutions that are effective in preparing surfaces without damaging the substrate and adjacent portions of the building and site.
 - 1. Implement controls to collect runoff without damaging landscaping, lawns, trees, and other site features.
 - 2. Comply with requirements of Authorities Having Jurisdiction for handling runoff wastewater.
 - 3. Rinse surfaces with clean water.
 - 4. If the time between surface preparation and plaster application is prolonged, re-inspect substrates and dampen dry masonry surfaces to reduce excessive suction.
- C. Prior to the base coat being applied, any excessive depression or hollow requiring dubbing out should be carried out using [1] [3.5] [5] part(s) hydrated lime and [1] [1.5] [2] part(s) sharp sand by volume.

Specifier: Retain mesh/lath installation requirements here based on selections made in Part 2 – Products above.

3.3 METAL LATH INSTALATION

- A. Install metal lath according to ASTM C1063 requirements for substrates indicated.

3.4 REINFORCING MESH APPLICATION

- A. Apply mesh to the substrate according to the Manufacturer's instructions. Overlap mesh at least 2 inches (50 mm) at all transitions. Hold overlaps 8 inches (203 mm) from inside and outside corners.
- B. Embed mesh into the specified base coat, troweling it from the center and outward to its edges, so that the fabric lays flat on the substrate and embedment is consistent, sand-floated, free of tool marks, and with no visible mesh pattern on the surface.
- C. Allow a curing time of 48 hours or longer, until the base coat is set and bonded to the substrate.
- D. If, after the base coat has dried, mesh is visible on the surface, apply a skim coat to cover all exposed mesh.

3.5 ACCESSORIES INSTALLATION

- A. Install accessories in accordance with ASTM C1063.
 - 1. Place corner bead at external wall corners.
 - 2. Place casing beads at terminations of plaster finish. Butt and align ends. Secure rigidly in place.
 - 3. Accessories: Provide specified accessories at terminations and joints.
- B. Install sealant joints at terminations.

3.6 PLASTER APPLICATION, GENERAL

- A. Apply plaster in accordance with the approved manufacturer's instructions.
- B. System Thickness: Thickness shall be uniform throughout the wall area.
- C. Moist cure scratch coat and brown coat to reduce excess suction caused by porosity and weather conditions.
- D. Apply finish coat (minimum thickness 1/8 inch) to approved color and texture.
- E. Finish must be true to plane and plumb; corners and transitions to be sharp and straight. Finish place tolerance is 1/8 inch per 10 feet. Variations in thickness, inconsistent finish, cold joints and other finish defects visible at a distance are not acceptable.
- F. Scaffold netting is required in windy conditions to prevent excessive evaporation from the material during the application and 72 hours following the application.
- G. Avoid excessive working of the surface. Delay troweling as long as possible to avoid drawing excess fines to surface.
- H. Do not apply below grade. Allow sufficient clearance above grounds. Increase clearance in freeze/thaw environments.
- I. Sequence the start of plastering work only after completion of floor, roof, and other dead load construction that would cause excessive deflection and risk for cracking.
- J. Sloped Surfaces:
 - 1. Do not apply plaster on sloped and horizontal surfaces of buildouts, ornaments, and other projecting architectural features exposed to weather that have less than 27 deg. (1:2) slope along their top surface.
 - 2. Foam horizontal reveals shall have a minimum 27 deg. (1:2) slope along their bottom surfaces and incorporate capillary breaks to prevent the migration of water toward the building.
 - 3. Increase the specified slope for northern climates to prevent accumulation of ice/snow and water on surface.
 - 4. Protect projections with slopes less than the minimums specified above with metal flashing and coping complying with NRCA and SMACNA standards.
 - 5. Where trim/feature or bottom surface of reveal projects more than 2 inches (51 mm) from the face of the wall plane, protect the top surface with waterproof base coat.
 - 6. Do not use trim and architectural features that exceed the maximum allowable thickness of EPS permitted by code (typically 4 inches (102 mm)) unless approved by the code official.
- K. Conditions at Grade: Do not apply plaster below grade or on surfaces subject to continuous or intermittent water immersion or hydrostatic pressure. Provide at least 4 inches (102 mm) clearance above finished grade, minimum 2 inches (51 mm) clearance above hardscaped (pavers/sidewalk) surfaces. Provide increased clearance in freeze/thaw climate zones.

3.7 CONTROL AND EXPANSION JOINTS

- A. Install control and expansion joints in locations approved by the Architect and according to the Manufacturer's instructions.
- B. Install exterior joints after initial set, scribed as indicated on Drawings by cutting through 2/3 of lime plaster depth, neatly, in straight lines.
- C. Expansion joints: Provide 2-piece expansion joints in the plaster system where building movement is anticipated, including but not limited to the following:
 - 1. Joints in the substrate.
 - 2. At changes in building height, at floor lines, at columns and cantilevered areas.
- D. Control Joints: Provide one piece control joints every 144 ft² (13 m²) and at louvers, windows, doors, and other openings.
 - 1. Do not exceed length to width ratio of 2-1/2:1 in joint layout.
 - 2. Do not exceed 18 feet (5.5 m) in any direction without a control joint.
 - 3. Provide minimum 3/8 inch (9.5 mm) wide joints where the system abuts windows, doors and other through wall penetrations.

3.8 SURFACE TREATMENT APPLICATION

- A. Preparation: Do not apply sealer below 50 deg. F (10 deg. C) or above 100 deg. F (38 deg. C) during the application and drying period. The plaster surface should be dry to ensure adequate penetration and adhesion. Avoid exposure to water or moisture before, during, and 48 hours after the application.
- B. Advise Owner of schedule for sealer applications that may affect building occupants, adjacent parking areas and other conditions that may be impacted by spray.
- C. Do not apply sealers using spray equipment when the prevailing winds exceed 5 mph (8 km/h).
- D. Application: Apply in 2 coats according to the sealer manufacturer's instructions. Comply with the sealer manufacturer's requirements for curing time of the first coat before application of the second coat.

3.9 CLEANING AND PROTECTION

- A. Remove temporary protections. Clean finished surfaces as recommended by the approved manufacturer. Clear weep holes and drainage channels of obstructions, dirt, and sealant.
- B. Replace damaged plaster and accessories.

3.10 FIELD QUALITY CONTROL

- A. Schedule and attend an inspection of mockups and installed system with the approved Manufacturer's technical representative to verify that the work of this Section complies with the specified requirements, the approved submittals, and the Manufacturer's recommendations. Make corrections recommended by the Manufacturer.

- B. The Owner reserves the right to engage a qualified testing agency to conduct additional inspections and tests to verify compliance with the specified requirements. Work not complying with the specified requirements shall be corrected and retested to verify compliance at no additional cost to the Owner.

END OF SECTION

The ecostucco® products offered by Mediterranean Colors, LLC are to be utilized by verified professional contractors, and further, the products are to be integrated within a specific larger construction assembly designed by an architect, a designer, a general contractor, or a builder. Such work should be conducted according to the instructions and specifications set forth by Mediterranean Colors, LLC and the qualified professional. Mediterranean Colors, LLC explicitly disclaims all responsibility, and all liability, for any on-site inspection, and for any products that are misapplied, or implemented improperly by unqualified individuals or organizations, as part of a building that has been designed or constructed improperly, for the adjacent building components or assemblies that are not functional, for any construction work that Mediterranean Colors does not control, and for any building activities that are outside of Mediterranean Colors' control. Improper design or construction within a larger assembly or building that involves the ecostucco® products could also result in severe damage to the building components, structure, or to the ecostucco® products.

MEDITERRANEAN COLORS, LLC DISCLAIMS ALL WARRANTIES, WHETHER WRITTEN, OR ORAL, IMPLIED, OR OTHERWISE, WITH THE EXCEPTION OF SPECIFIC, INDIVIDUALLY NEGOTIATED, LIMITED WARRANTIES WRITTEN, ISSUED TO, AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH MEDITERRANEAN COLORS WARRANTY PROGRAM