# PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 and 01 Specification Sections, apply to this Section.

## 1.2 SUMMARY

A. Section Includes:
   1. Exterior plasterwork with crack isolation system over polyisocyanurate foam-plastic board.

B. Related Sections:
   1. Section 018113 “Sustainable Design Requirements.”
   2. Section 061600 “Sheathing” for sheathing as part of cement plastering assembly.
   3. Section 072100 “Building Insulation” for continuous insulation substrate for cement plastering.
   4. Section 072700 “Air Barriers” for air barrier and protection layer under cement plastering.

## 1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

## 1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. LEED Submittals: Credit MRc5. Refer to Section 018113 “Sustainable Design Requirements” for additional submittal requirements

C. Shop Drawings: Include plans, elevations, sections, details of components, and attachments to other work.

D. Samples: For each type of factory-prepared finish coat and for each color and texture specified.

## 1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For lathing and plastering installer.

B. Evaluation Reports: For welded-wire lath, from ICC-ES.

## 1.6 QUALITY ASSURANCE

A. The lathing and plastering installer shall have been in business for at least 10 years and shall provide evidence of successfully provided equivalent work on similar projects of same size or larger.

B. Manufacturer Qualifications: Engage a firm who has at least 5 years of experience in manufacturing systems similar to those indicated for this Project and with a record of successful in-service performance. Firm shall be regularly engaged in manufacturing products and repair and maintenance products for systems similar to those indicated.

C. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
   1. Build mockup of typical cement plaster assembly as part of integrated exterior mockup, including corner, soffits (if applicable), and accessories.
   2. Mockup shall demonstrate finish matches adjacent building/Campus standard finish.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Store materials inside under cover, and keep them dry and protected against damage from weather, moisture, direct sunlight, surface contamination, corrosion, construction traffic, and other causes.

1.8 FIELD CONDITIONS

A. Comply with ASTM C 926 requirements.

B. Exterior Plasterwork:
   1. Apply and cure plaster to prevent plaster drying out during curing period. Use procedures required by climatic conditions, including moist curing, providing coverings, and providing barriers to deflect sunlight and wind.
   2. Apply plaster when ambient temperature is greater than 40 deg F.
   3. Protect plaster coats from freezing for not less than 48 hours after set of plaster coat has occurred.

C. Factory-Prepared Finishes: Comply with manufacturer's written recommendations for environmental conditions for applying finishes.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain plaster products, including base coat, finish coat and crack isolation materials, from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. Fire-Resistance Ratings: Where indicated, provide cement plaster assemblies identical to those of assemblies tested for fire resistance according to ASTM E 119 by a qualified testing agency.

B. All materials shall be meet current local air quality management district and LEED requirements.

2.3 METAL LATH

A. Expanded-Metal Lath: ASTM C 847, cold-rolled carbon-steel sheet with ASTM A 653/A 653M, G60, hot-dip galvanized-zinc coating.
   1. Diamond-Mesh Lath: Self-furring, 3.4 lb/sq. yd.

B. Wire-Fabric Lath: Class 1, hot-dip galvanized-zinc coating complying with ASTM A 641.
   1. Welded-Wire Lath: ASTM C 933, Self-furring, 1.95 lb/sq. yd.; double wire.
      a. Lath shall have ICC-ES Evaluation Report approval as alternate to 3.4 lb/sq.yd. diamond mesh metal lath as specified in ASTM C847.
      b. Basis-of-Design Products: Structa Mega Lath from Structa Wire Corporation. (ICC ESR-2017)
   2. Rib Lath: ASTM C 933, Self-furring, 2.2 lb/sq. yd.
      a. Lath shall have ICC-ES Evaluation Report approval as alternate to 3.4 lb/sq.yd. rib metal lath as specified in ASTM C847.
      b. Basis-of-Design Products: V Truss Ceiling from Structa Wire Corporation. (ICC ESR-2017)

2.4 ACCESSORIES

A. General: Comply with ASTM C 1063, and coordinate depth of trim and accessories with thicknesses and number of plaster coats required.

B. Metal Accessories:
   1. Foundation Weep Screed: Fabricated from hot-dip galvanized-steel sheet, ASTM A 653/A 653M, G60 zinc coating.
   2. Cornerite: Fabricated from metal lath with ASTM A 653/A 653M, G60, hot-dip galvanized-zinc coating.
   3. External- (Outside-) Corner Reinforcement: Fabricated from metal lath with ASTM A 653/A 653M, G60, hot-dip galvanized-zinc coating.
   4. Cornerbeads: Fabricated from zinc-coated (galvanized) steel.
      a. Smallnose cornerbead with expanded flanges; use unless otherwise indicated.
      b. Smallnose cornerbead with perforated flanges; use on curved corners.
      c. Smallnose cornerbead with expanded flanges reinforced by perforated stiffening rib; use on columns and for finishing unit masonry corners.
      d. Bullnose cornerbead, radius 3/4 inch minimum, with expanded flanges; use at locations indicated on Drawings.
   5. Casing Beads: Fabricated from zinc-coated (galvanized) steel; square-edged style; with expanded flanges.

C. Crack Isolation System: Omega Crack Isolation Base or equal.
   1. Crack Isolation Base: Applied over moist cured brown coat.
   2. Mesh: Alkali resistant, 4.5 oz., woven glass-fiber fabric by plaster system manufacturer.

2.5 MISCELLANEOUS MATERIALS

A. Water for Mixing and Finishing Plaster: Potable and free of substances capable of affecting plaster set or of damaging plaster, lath, or accessories.

B. Fiber for Base Coat: Alkaline-resistant glass or polypropylene fibers, 1/2 inch long, free of contaminants, manufactured for use in cement plaster.

C. Bonding Compound: ASTM C 932.

D. Fasteners for Attaching Metal Lath to Substrates: ASTM C 1063.

E. Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, not less than 0.0475-inch diameter unless otherwise indicated.

2.6 PLASTER MATERIALS

A. Portland Cement: ASTM C 150/C 150M, Type I.

B. Masonry Cement: ASTM C 91, Type N.

C. Colorants for Job-Mixed Finish Coats: Colorfast mineral pigments that produce finish plaster color to match Architect's sample.

D. Sand Aggregate: ASTM C 897.

E. Acrylic-Based Finish Coatings: Factory-mixed acrylic-emulsion coating systems formulated with colorfast mineral pigments and fine aggregates; for use over cement plaster base coats. Include manufacturer's recommended primers and sealing topcoats for acrylic-based finishes.
   1. Products: Subject to compliance with requirements, provide the following:
      a. OmegaFlex Fine by Omega Products International.
      b. PermaLite Finish by LaHabra Stucco/Parex USA
      c. Or Equal.
   2. Integral Color: Match Architect's sample.

2.7 PLASTER MIXES

A. General: Comply with ASTM C 926 for applications indicated.

B. Base-Coat Mixes for Use over Metal Lath: Scratch and brown coats with fibers for three-coat plasterwork as follows:
   1. Portland Cement Mixes:
      a. Scratch Coat: Omega Super Cement with Fibers, LaHabra Fiber 47, or equal.
         1) Use 2-1/2 to 4 parts aggregate per part of cementitious material.
      b. Brown Coat: Omega Super Cement, LaHabra Fiber 47, or equal.
         1) Use 3 to 5 parts aggregate per part of cementitious material, but not less than volume of aggregate used in scratch coat.

C. Base-Coat Mixes for Use over Unit Masonry and Concrete: Single base coat for two-coat plasterwork on low-absorption plaster bases as follows:
   1. Portland Cement Mix: Omega Super Cement with Fibers, LaHabra Fiber 47, or equal.
      a. Use 2-1/2 to 4 parts aggregate per part of cementitious material.

D. Factory-Prepared Finish-Coat Mixes: For acrylic-based finish coatings, comply with manufacturer's written instructions.

E. Finish: Finish texture to match adjacent building.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Protect adjacent work from soiling, spattering, moisture deterioration, and other harmful effects caused by plastering.

B. Prepare smooth, solid substrates for plaster according to ASTM C 926.

3.3 INSTALLATION, GENERAL

A. Fire-Resistance-Rated Assemblies: Install components according to requirements for design designations from listing organization and publication indicated on Drawings.

3.4 INSTALLING METAL LATH

A. Metal Lath: Install according to ASTM C 1063.
   1. Partition Framing and Vertical Furring: Install welded-wire lath or diamond-mesh lath.
   2. Flat-Ceiling and Horizontal Framing: Install welded-wire rib lath or diamond-mesh lath.
   3. On Solid Surfaces, Not Otherwise Furred: Install self-furring, welded-wire lath or self-furring, diamond-mesh lath.

3.5 INSTALLING ACCESSORIES

A. Install according to ASTM C 1063 and at locations indicated on Drawings.

B. Reinforcement for External (Outside) Corners:
   1. Install lath-type, external-corner reinforcement at exterior locations.
   2. Install cornerbead at interior locations.

C. Crack Isolation System: Comply with manufacturers recommendations.
   1. Apply crack isolation base material to moist cured brown coat while wet and pliable. Fully embed fiberglass mesh. Ensure mesh is fully encapsulated. A minimum two-inch overlap is required.

3.6 PLASTER APPLICATION

A. General: Comply with ASTM C 926.
   1. Do not deviate more than plus or minus 1/4 inch in 10 feet from a true plane in finished plaster surfaces when measured by a 10-foot straightedge placed on surface.
   2. Finish plaster flush with metal frames and other built-in metal items or accessories that act as a plaster ground unless otherwise indicated. Where casing bead does not terminate

plaster at metal frame, cut base coat free from metal frame before plaster sets and groove finish coat at junctures with metal.

3. Provide plaster surfaces that are ready to receive field-applied finishes indicated.

B. Bonding Compound: Apply on unit masonry and concrete substrates for direct application of plaster.

C. Walls; Base-Coat Mixes for Use over Metal Lath: For scratch and brown coats, for three-coat plasterwork with 3/4-inch total thickness, as follows:
   1. Portland cement mixes.

D. Ceilings; Base-Coat Mixes for Use over Metal Lath: For scratch and brown coats, for three-coat plasterwork and having 1/2-inch total thickness, as follows:
   1. Portland cement mixes.

E. Walls; Base-Coat Mix: For base (scratch) coat, for two-coat plasterwork and having 3/8-inch thickness on masonry or 1/4-inch thickness on concrete, as follows:
   1. Portland cement mix.

F. Acrylic-Based Finish Coatings: Apply coating system, including primers, finish coats, and sealing topcoats, according to manufacturer's written instructions.
   1. Texture: Finish shall match adjacent building as approved by Architect.

G. Concealed Exterior Plasterwork: Where plaster application is used as a base for adhered finishes, omit finish coat.

## 3.7 PLASTER REPAIRS

A. Repair or replace work to eliminate cracks, dents, blisters, buckles, crazing and check cracking, dry outs, efflorescence, sweat outs, and similar defects and where bond to substrate has failed.

## 3.8 CLEANING AND PROTECTION

A. Remove temporary protection and enclosure of other work after plastering is complete. Promptly remove plaster from door frames, windows, and other surfaces not indicated to be plastered. Repair floors, walls, and other surfaces stained, marred, or otherwise damaged during plastering.

END OF SECTION