

SECTION 92400 – PORTLAND CEMENT PLASTERING

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes:

1. Portland Cement Plaster
2. Metal lath and accessories
3. Weather resistant barriers

B. Related Sections:

C. Drawings, the provisions Agreement, the General Conditions, and Division 01 specifications apply to all work in this section.

D. Substitutions: Substitute products will be considered only under the terms and condition of section 016000.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM)

1. A653 – Standard Specification for Sheet Steel, Zinc Coated (Galvanized) or Zinc Iron Alloy Coated (Galvannealed) by the Hot Dip Process
2. A924 – Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot Dip Process
3. C150 – Portland Cement
4. C206 – Finishing Hydrated Lime
5. C207 – Hydrated Lime for Masonry Purposes
6. C847 – Standard Specification for Metal Lath
7. C1063 – Lathing and Furring for Portland Cement and Portland Cement Lime Plastering, Exterior (Stucco) and Interior

1.3 SUBMITTALS

- A. Make submittals in accordance with Section 013300, unless otherwise specified
- B. Product Data: Submit product literature for each plaster accessory proposed for the work
- C. Samples
- D. Quality Control Submittals
- E. Warranty Draft: Concurrent with initial product data submittal, submit draft of manufacturer's warranty for stucco coating for Architect's review of terms. Draft shall include exceptions and inclusions

1.4 QUALITY ASSURANCE

- A. Building Codes: Materials, systems, and installation shall conform to the requirements of jurisdictional Code authorities
- B. Details of workmanship and installation not specified herein shall conform to specifications and recommendations of the following:
 - 1. Technical Services Information Bureau – (Orange, CA 714-221-5530)
- C. Pre-Installation Meeting
 - 1. Prior to ordering materials and starting work on this Section, and in accordance with Section 013119, meet with the following parties:
 - a. Owner
 - b. Architect
 - c. General Contractor
 - d. Cement Plaster Subcontractor
 - e. Sealant Subcontractor
 - f. Finish Coating Subcontractor
 - 2. Review procedures, details, and order of application regarding cement plaster and related construction. Discuss and determine responsibility for protection of the completed work
- D. Mock Up: Shall be built per Architects specifications

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Comply with provisions of Section 016000
- B. Schedule procurement with regard to availability and lead times of Eliminator Series Channel Screeds by Brand X Metals, Inc. of products to avoid project delays due to material unavailability

1.6 COORDINATION

- A. Properly coordinate work with work of other trades. Verify location where work of other trades is indicated to penetrate cement plaster work
- B. Coordinate with work of other Sections for installation of sleeves, boxes, flanges and other related work
- C. Install system components so that there is no direct contact with mechanical work, except as detailed, at points of penetration

1.7 ENVIRONMENTAL CONDITIONS

1.8 WARRANTY

- A. See Manufacturer's warranty

1.9 SUBCONTRACTOR GUARANTEE

- A. Furnish Subcontractor Guaranties in accordance with Section 017700

PART 2 – PRODUCTS

2.1 PLASTER AND ACCOCIATED WALL MATERIALS

2.2 LATH AND UNDERLAYMENT

- A. 3.4 non furred Metal Lath, 17 Gauge woven or welded wire
- B. Air and Weather Barriers

2.3 ACCESSORIES

- A. Furnish attachment devices as required for secure anchoring of plaster accessories; furnish connection devices and splice plates for reveals and slip joints to insure accurate alignment, allowance for axial movement where required
- B. Material:
- C. Approved Manufacturers:
 - 1. Brand X Metals, Inc 714-978-3600 www.brandxmetals.com
- D. Anchorages for Lath and Accessories: Galvanized steel self tapping wafer head screws or drill screws, or other approved metal fasteners of type and size to suit application
- E. Contractor to provide the following proprietary lath attachment system:
- F. Eliminator Series Channel Screeds by Brand X Metals, Inc. 714-978-3600 www.brandxmetals.com .

2.4 DEFINITIONS:

1. Eliminator Series Channel Screeds Part definitions:

PART NUMBER	APPLICATION
BXM 875-100 A & B	CHANNEL SCREED 2 PC
BXM SD	SIDE DAMS
BXM SP	SPLICING JOINT CONNECTORS
BXM EC	END CAPS
BXM 2-WAY	WELDED CORNERS
BXM 3 WAY	WELDED T-INTERSECTION
BXM 4 WAY	WELDED 4-WAY INTERSECTION
BXM P.C.I.	PLASTIC CHANNEL INSERT

2. Applicable Quality Standards: ASTM A653, A924, C841, C847 C1047, C1063

3. Trim Definitions:

- a. Control Joints are expanded wing type (i.e. XJ-15)
- b. Slip Joints are two piece reveals at floor lines
- c. Trims are architectural reveals

2.5 CEMENT PLASTER MIX DESIGN

PART 3 – EXECUTION

3.1 EXAMINATION

A. Prior to the start of work, carefully examine installed work of other trades and verify that work is complete to the point where work in this section may properly commence. Notify Architect in writing of conditions detrimental to the proper and timely completion of the work

B. Do not begin installation until all unsatisfactory conditions are resolved. Beginning work constitutes acceptance of conditions and responsibility for defective installation caused by prior observable conditions

3.2 INSTALLATION OF LATH, UNDERLAYMENT, AND ACCESSORIES

- A. Install products and systems in accordance with referenced standards and specifications, unless indicated or specified otherwise
- B. Weather and Air Barrier:
- C. Accessories:
 - 1. Install accessories as indicated in combination with cement plaster work
 - 2. Field cut accessories as necessary for accurate alignment and conformance to details; make all cuts neat and straight; remove burrs before installation
 - 3. Install accessories in accurate alignment, straight, and according to details. Install shims behind flanges of accessories as necessary to achieve proper face location for accurate screeding to finished surface
 - 4. Field drill accessories as necessary for anchorage
 - 5. Install accessories for accurate alignment at end to end joints
 - 6. Apply sealant behind end to end joints in control joint accessories, prior to application of plaster
 - 7. Construct joints and intersections in accessories to preclude rainwater leakage.
 - 8. Control Joints:
 - a. Install control joints where shown. Where not shown, install control joints to form rectangle or square areas not exceeding 144 square feet maximum with no dimension exceeding 12 feet or a length to width ratio not to exceed 2 ½ to 1. Verify exact locations with Architect prior to installation
 - b. Locate control joints over framing members and not between studs. Coordinate framing locations
 - c. Cut and separate metal lath between control joints

9. Install reveals (Trims) at locations indicated on drawings
10. Except as otherwise detailed, case finishes terminating at dissimilar materials.
11. Corner beads shall be wire tied to metal lath; no fasteners shall be used to secure corner bead to substrate
12. Stops, other than casings, where shown or required around lighting fixtures, air diffusers, etc. are to be furnished under other Sections for installation as part of the cement plaster work. Type of stop, if not shown, shall be submitted to Architect for review and must be approved by the Architect prior to installation
13. All control joints and trims shall be installed after rigid foam insulation has been installed
14. Slip Joints:
 - a. Install slip joints as indicated
 - b. When not indicated, provide at slip joint locations in substructure, such as compensating channels between floors
 - c. Verify exact location with Architect prior to installation
 - d. Size cement plaster slip joint to match substrate expansion joint size

D. Installation of Proprietary Lath Channel Screed System

1. General:
 - a. Install Eliminator Channel Screed products after to the application of fluid applied air and weather barrier, mechanically applied air and weather barrier, and rigid insulation (if part of the wall assembly).
 - b. Fastener Type: 1-1/4 inch minimum galvanized wafer head self tapping screws through the center of the channel screed, unless otherwise noted
 - c. Fastener Length: Provide fasteners sufficient in length to pass through sheathing and framing member with minimum 3 threads visible.

- d. Fastener Spacing: Maximum 16 inches on center.
 - e. Caulk fasteners and joints as indicated on the plans.
- 2. BXM SD AND SP SPLICING PARTS:
 - a. Provide splices when joining two pieces of Eliminator Channel Screed products together at butt joints
 - b. DFSP fits into the side tracks of butting parts, splicing two together prior to final fastening by installer
 - c. Place splice with equal amount on each side of butt joint
- 3. BXM EC – END CAPS
 - a. Install end caps in to slot on channel screed to provide termination point for cement plaster where needed.
- 4. BXM – INTERSECTIONS
 - a. Install factory welded intersection where indicated on the plans. Ensure splicing pieces line up the joints in such a way that the channel cover can be installed properly at a later time.
- 5. PCI – REUSEABLE PLASTIC CHANNEL INSERTS
 - a. Once channel screeds are installed and inspected, install PCI series inserts into the reveal opening per detail on the area to receive cement plaster. Inserts should be installed so that no plaster can enter the reveal area.
 - b. Remove inserts only after no further plaster will be installed around them.
- 6. CHANNEL COVERS – PART B
 - a. Eliminator channel covers are to be installed after the finish coat of plaster has dried for at least 1 days and no further moisture curing is required.
 - b. Carefully remove the channel inserts prior to installing channel covers.
 - c. Eliminator Series Channel Covers snap into the female channel screed. Install caulking as required on waterproofing section of the plans prior to channel cover installation. Stagger covers to not line up with butt joints on female channel screed. Field cut channel covers as required.

E. Lath: