

The following standard specification is intended to be edited according to the specifics of the project. Brackets [] and areas shaded in gray [e.g. format] indicate requirements that are optional depending upon the type of system being provided or per instructions associated with the [] and project requirements. Consult with University's Representative and campus stakeholders.

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SECTION 09 22 36.23 CEMENT PLASTER LATHING AND LATH ACCESSORIES

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This Section includes cement plaster lathing and lath accessories over a continuous water-resistive barrier system with solid continuous sheathing and framed structural supports.

1.2 RELATED SECTIONS

- A. Section 01 31 10 Project Meetings
- B. Section 01 43 33 Quality Assurance
- C. Section 01 43 39 Mock-ups
- D. Section 01 60 00 Product Requirements
- E. Section 06 16 43 Gypsum Sheathing
- F. Section 07 25 00 Water Resistive Barrier System
- G. Section 09 24 00 Portland Cement Plastering

1.3 SUBMITTALS

- A. Installer qualifications and experience.
- B. Product Data: Submit each type of lath, fastener and accessory.
- C. Samples: Submit four (4), 12-inch long samples of each lath accessory shape, type and finish.
- D. Shop Drawings: Submit wall elevation shop drawings showing lath accessory locations, for University's Representative's review and approval. Submit shop drawings for any locations requiring lath accessories that are not clearly depicted in Drawings.

Note to Specifier: Coordinate LEED submittal requirements with the project's LEED goals and rating system.

E. LEED Submittals:

- 1. Credit MR 4.1 and MR 4.2: Product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content. Include statement indicating costs for each product having recycled content.

1.4 QUALITY ASSURANCE

- A. Installer shall have 5 years of documented previous lathing experience on at least 5 similar scope projects, using the specified or generically comparable materials.
- B. Perform work in accordance with the current building code requirements.
- C. Follow recommendations of ASTM C1063 *Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster*, Portland Cement Association *Plaster/Stucco Manual EB049* and ACI 524-R *Guide to Portland Cement Based Plaster*.

- D. Mock-ups: Provide products, assemblies, and related materials for the composite mock-ups specified in **Section 01 43 39 Mock-ups**. Test completed mock-up assemblies following CBC 1403.2 to the code prescribed minimum pressure or the building design pressure, whichever is greater.
- E. Pre-Installation Conference: Conduct conference at Project site in accordance with the requirements of Section 01 31 10 Project Meetings and the following:
1. Notify participants including University's Representative, Contractor, Sheet Metal Flashing, Window and Sealant Subcontractors as appropriate and University's Waterproofing Consultant at least 7 calendar days before conducting meeting.
 2. Review material selections and procedures to be followed in performing the Work.
 3. Review in detail job conditions, schedule, construction sequence, and quality of completed installation.
 4. Review installation of lathing, lath accessories, with special attention to detailing of control joints and expansion joints.
 5. Record discussions of conference and any conflict, incompatibility, or inadequacy. Furnish a copy of record to each participant.

Note to Specifier: Coordinate Environmental Quality Assurance with LEED submittal requirements and project's LEED goals and rating system.

1.5 ENVIRONMENTAL QUALITY ASSURANCE

- A. Provide lathing and lath accessories with recycled content such that post-consumer recycled content plus one-half of pre-consumer recycled content constitutes a minimum percentage of cost of materials used for the Project as required for the LEED Credit.
- B. Available LEED Credits:
1. Credit MR 4.1 and MR 4.2 - Recycled Materials.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Refer to Section 01 60 00 Product Requirements.
- B. Deliver products and materials in original unopened packages, containers, or bundles with manufacturer's label intact and legible.
- C. Remove items delivered in broken, damaged, rusted, or unlabeled condition from Project site immediately.
- D. Protect lathing and lath accessories from moisture and other sources of damage.
- E. Store metallic materials and accessories indoors, off the floor.

PART 2 - PRODUCTS

2.1 LATHING

- A. Lath for vertical surfaces (walls): Self-furred, welded wire, galvanized steel, 17 gage, 1-1/2 inch x 1-1/2 inch, 1.14 lbs./sy.
1. Structalath Twin Track, Structawire Corp. 38-3/8 inch x 150 ft long rolls, or equal, no known equal.
 - a. 1/4 Inch self-furred lath, to the underside of the cross wire, each cross wire is furred. Furring rows every 3 inch on center.
 - b. Double wires at fastener locations.

- B. Lath for horizontal surfaces (ceilings/soffits): Self-furred with continuous V-groove, expanded metal, galvanized steel G60, 3.4 lbs./sy., with paper backing to facilitate spray applications. Amico, Clark Dietrich, Cemco, KLath, or equal.

2.2 FASTENERS

- A. Screws (for light gage metal framing):

1. General: ASTM C646, corrosion resistant, for attachment to metal framing 25 gauge and lighter; ASTM C954 for attachment to metal framing 20 gauge and heavier.
2. Steel Drill Screws: For metal-to-metal fastening, ASTM C 1002 or ASTM C 954, as required by thickness of metal being fastened; with pan head that is suitable for application; in lengths required to achieve penetration through joined materials of not fewer than three exposed threads.

- B. Self-furring nails (for wood framing):

1. 11 Gauge, 3/8 inch diameter head, hot-dipped galvanized roofing nails, with self-furring wad, minimum length as determined to provide 1 inch minimum embedment into wood framing, in addition to sheathing thickness.

- C. Tie Wires: No. 18 gauge, galvanized, single strand annealed steel.

2.3 LATH ACCESSORIES

- A. General: Fabricated from hot-dip galvanized steel sheet, ASTM A 653/A 653M, G60 zinc coating. 26 gauge minimum, 3/4 inch minimum ground depth, typical unless otherwise noted below. Cemco, Amico, Stockton Products, or equal.

1. Foundation weep screed flashing: #7 Foundation weep screed, with sloped drainable plaster termination surface, 3-1/2 inch solid sheet metal flange, non-perforated.
2. Soffit drip screed: #5 soffit drip, with sloped drainable plaster termination surface, 3-1/2 inch solid sheet metal flange, non-perforated.
3. Drip screed above wall opening head flashings such as windows, doors, louvers: #36 drip screed, 3-1/2 inch solid sheet metal flange, non-perforated.
4. Soffit vent: Standard profile soffit vent reveal screed.
5. Outside corner reinforcement: Welded wire, galvanized, plastic nose. Corner-Aid, or equal.
6. Casing bead: Square edge, expanded sheet metal flange. Provide deep leg casing bead where required for perpendicular sealant bearing surface.
7. Expansion joint: 2-piece galvanized steel, solid sheet metal flanges.
 - a. For horizontal orientations only: Drainable, non-perforated: M-Slide, or equal.
 - b. For vertical orientations on walls only: #40.
8. Control joint:
 - a. 1/2 Inch ground depth, minimum.
 - b. For vertical orientations on walls only, and all soffits: XJ-15, galvanized steel, expanded sheet metal flanges.
 - c. For horizontal orientations on walls only: Solid leg #15 control joint, G90 galvanized steel, Cemco, or equal, no known equal.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Install materials in conformance with CBC Chapter 25 requirements and ASTM C1063.
- B. Install lath continuously and perpendicular to supports, over the water-resistive barrier system and continuous solid sheathing.
- C. Fasten lath to supports at 6 inches on center and avoid installing excessive fasteners to minimize cracking.
- D. Fasten lath edges into framing, within 2 inches from lath sides or edges.
- E. Provide control joints conforming to locations identified by University's Representative, but not to exceed 10 feet on center maximum.

3.2 INSTALLATION OF LATHING

- A. Vertical walls:
 1. Install horizontal drainage components including sheet metal flashings, weep screeds, soffit drips, 1-piece horizontal control joints, 2-piece horizontal expansion joints and drip screeds, and weather lap with water-resistive barrier system components to ensure drainage.
 2. Install lath horizontally onto vertical wall surfaces, lap lath sides and ends not less than 1 mesh for wire lath.
 3. Attach lathing to framing supports with fasteners spaced 6 inches apart vertically, generally between the doubled lath wires when using screws into metal framing, or at cross wires when using nails into wood framing, at each vertical framing support member.
 4. Lath fasteners into horizontal framing or blocking in framed vertical walls are not required.
 5. Install lath continuously into and around wall corners, where the structural support system is the same on both sides of the corner. Provide #30 control joint at interior corners of different support system substrates.
 6. Wire tie or crimp lathing side laps as required to assure continuous direct lathing contact during plastering.
 7. Prevent damage to, and immediately repair damage that does occur, to the water-resistive barrier system. Repair defects of the water-resistive barrier system immediately when observed and as lathing progresses. Repair any conditions caused by lathing and lath accessory installation that would allow water intrusion, such as spinners and shiners (removed or abandoned fasteners that miss supports), tears, rips overdriven fasteners, or any other condition that would allow bulk water intrusion beyond the water-resistive barrier system into the building.
- B. Horizontal ceilings and soffits:
 1. Lap lath sides and ends not less than 1 inch for expanded sheet metal lath at soffits.
 2. Comply with CBC 2507.3 requirements for soffit lath fasteners and installation.

3.3 INSTALLATION OF LATH ACCESSORIES

- A. General:
 1. Align grounds of lath accessories to true lines, plumb, level, and straight. Bend expanded flange accessories into fine alignment, do not shim.
 2. Connect lengths of accessories as recommended by the manufacturer to assure a continuous line.

3. Install accessories to provide required depth of plaster and to bring plaster surface to required planar tolerance.
4. Secure lath accessories in place as required to prevent dislodging or misalignment during plastering installation. Use self-tapping screws into metal framing supports.
5. In general, attach lath accessories over water-resistive barrier system, over lathing, unless noted otherwise.
6. Terminate ends of lath accessories at intersections with other lath accessories. Do not allow in-line butt splices at locations other than at lath accessory intersections.
7. Lap water-resistive barrier system components and lathing over solid flange lath accessories and drainage flashings to ensure drainage.
8. Fasten solid flange lath accessories 7 inches on center into the upper 1-1/2 inch of solid vertical flange, into supports.
9. Embed laps, terminations, transitions and intersections into solid sealant setting bed to prevent bulk water intrusion into the wall assembly.

B. Lath accessory installation and fastening:

1. Weep, soffit, and drip screeds: Fasten through solid flange into supports.
2. Soffit vent: Discontinue lath and water-resistive barrier system at vent, fasten vent into supports.
3. Casing beads:
 - a. Use single length casing beads wherever length of run does not exceed 10 feet and miter or cope corners.
 - b. Provide 3/8 in. minimum gap for sealant between casing bead, wall openings and penetrations..
 - c. Set casing beads level, plumb, and true to line, fasten to supports.
 - d. Provide casing beads at the following locations:
 - 1) Where plaster abuts dissimilar construction.
 - 2) At perimeter of openings where edges of plaster will not be concealed by other Work.
4. Outside corner reinforcement: Fasten to supports. Install continuous corner reinforcement for full length of external corners.
5. Expansion joint: Fasten flanges into supports, centered over gap in supports.
6. University's Representative will approve location of control and expansion joints. At intersections of vertical and horizontal joints, continue horizontal joint through intersection.
7. Solid flange #15 control joint, horizontal: Discontinue lath through control joint. Fasten upper solid flange of control joint and lath side into supports. Fasten lath side below control joint into supports and wire tie lower control joint expanded sheet metal flange to lath side at 7 inches on center.
8. Expanded flange control joint, vertical: Discontinue lath through control joint, fasten lath edges to supports at 7 inches on center. Wire tie expanded sheet metal flanges of control joints onto lath at 7 inches on center.

END OF SECTION 09 22 36.23