

SECTION 09201
FURRING AND LATHING

PART 1 - GENERAL

1.01 DESCRIPTION

A. Scope:

1. Provide metal furring, metal lath, and accessories for portland cement plaster areas indicated.

1.02 RELATED WORK

- A. COLD FORMED METAL FRAMING: Section 05400.
- B. INSULATION: Section 07200.
- C. PORTLAND CEMENT PLASTER: Section 09220.

1.03 QUALITY ASSURANCE

- A. Approved Products: As applicable, products used herein shall comply with requirements of the Florida Product Approval System as required by Florida Statute 553.842 and Florida Administrative Code 9B-72.

B. Erector's Qualifications:

1. Installation shall be performed only by a qualified installer with at least five (5) years experience in installations of a similar nature.

C. Reference Standards:

1. American Society for Testing and Materials (ASTM):
 - a. Reference Standards.
2. Federal Specifications (FS):
 - a. Referenced Standards.

1.04 SUBMITTALS

A. Product Data:

1. Submit manufacturer's product specifications and installation instructions for each product, including data showing compliance with specification requirements.

B. Samples:

1. Provide three (3) samples of lath, screws and washers used for lath attachment.

1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. All runners, furring and lathing materials shall be delivered to the jobsite in undamaged condition, without bends, breaks, or other distortions.
- B. Deliver lath to the job site in bundles and store neatly, stacked flat, in a dry space protected from the elements.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Metal Runners and Furring:

1. Steel runner and furring channels shall comply with the requirements of ASTM C 645.
2. Runner Channels:
 - a. 16-gauge hot-dipped galvanized steel; 1-1/2 inch with 19/32 flange width.
3. Hat Shaped Screwable Furring Channels (Hat Shaped): (Basis of standard, use others below under 4. and 5, if required due to circumstances)
 - a. 18-gauge minimum hot-dipped galvanized steel, 7/8-inch deep with 1-3/8-inch-wide screwable surface, and with 1/2-wide wing flanges.
4. Furring Channels:
 - a. 16-gauge hot-dipped galvanized steel; 1-1/2 inch with 19/32 flange width weighing not less than 500 lbs. per thousand lineal feet.
5. Z-Shaped Furring Sections:
 - a. One and one half inch deep by two-inch overall hot-dipped galvanized steel.
 - b. Two-inch deep by two-inch overall hot-dipped galvanized steel (where required)
6. Furring Channel Clips:
 - a. Manufacturer's standard for use intended.
7. Metal Studs:
 - a. Minimum 18 gauge hot-dipped galvanized steel, 6", "C" type. See structural drawings.

B. Metal Lathing:

1. Expanded metal lath shall be copper alloy steel, hot-dipped galvanized, conforming ASTM C 847, and of the following type and minimum weight:

Type	Lbs. per Sq. Yd.
Diamond Mesh Lath	3.4
Ribbed Mesh Lath	4.0

2. All metal lath shall be backed with a heavy asphalt saturated paper firmly attached to the back surface. Paper shall conform to Federal Specification UU-B-790, Type I, Grade C, Style 2.

C. Wire:

1. Hangar Wire: (as may be required)
 - a. No. 8 gauge, minimum, galvanized wire.
2. Tie Wire:
 - a. No. 16-gauge, minimum, galvanized soft annealed steel wire.

D. Hanger Anchorage Devices:

1. Screws, clips, bolts or other devices applicable to the indicated method of structural anchorage for ceiling hangers and whose suitability for use intended has been proven through standard construction practices or by certified test data. Size devices for 3 x calculated hanger loading except size direct pull-out concrete inserts for 5 x calculated hanger loading.
2. Screws with washers used for metal lath attachment shall be sized to prevent pull through. Screws shall be driven through plywood (or DensGlass) to studs at 6" o.c.

E. Plaster Accessories:

1. Casing Beads:
 - a. Casing beads shall be solid zinc, square-edge style, with expanded flanges and removable protective tape. Provide casing beads at all dissimilar materials edge, or as provided in Section 09220.

F. Vapor Barrier

- a. Provide Tyvek Stucco Wrap as a Vapor Barrier in areas where lath is installed over DensGlass sheathing. Note: this is in addition to paper backing required by 2.01 B above.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Properly lay out ceiling hangers to avoid conflict with building structure, mechanical and electrical ducts, conduit, piping and equipment. Do not place ceiling framing until all pipes, conduits, ducts, and similar items are in place.

3.02 INSTALLATION

A. Metal Runners, Furring, Lathing, and Accessories:

1. Erect metal runners, furring and lath as required for plaster work at locations indicated on Drawings, in accordance with ASTM C 1063, except as otherwise specified herein.
2. Furnish and install wood blocking or metal plate back-up or install back-up plates furnished by supplier of wall-mounted items, for the attachment of all surface-attached items. Back-up material shall be of sufficient size to accommodate the fastening device and shall be rigidly attached.
3. Secure hangers to structural support by connecting directly to structure where possible, otherwise connect to inserts, clips or anchorage of fasteners as indicated.
4. In addition to hanger wires, place 3/4 inch furring channels vertically at 4'-0" centers along carrying channels, firmly secured to carrying channels and to overhead slab or steel members.
5. Use 3/4 inch lathing channels (cross-furring) across carrying channels when using metal lath.
6. Provide additional bracing for wind uplift on exterior soffits as indicated on the Drawings.
7. Fur across all exposed pipes, around ducts and similar items. Form beam, soffits, offsets, bulkheads, and frame-out for openings in ceilings where they are required. Coordinate with electrical and mechanical ceiling work. Provide carrying and lathing channels as conditions require. Do not nail furring to ducts.

B. Metal Lath:

1. Metal lath shall be attached to metal stud framing and/or furring channels by screws with waffle washers not to exceed 6-inch spacings. Washers to be sized to prevent pull through. Submit samples of lath, washer and screws for approval.
2. Diamond mesh lath shall be lapped at sides not less than 1/2-inch. Rib metal lath with edge ribs greater than 1/8" in depth shall be lapped at sides by nesting outside ribs. Rib metal lath with edge ribs no greater than 1/8-inch in depth shall be lapped 1/2-inch at sides or outside ribs shall be nested.
3. All metal lath shall be lapped not less than 1-inch at ends.
4. Stucco mesh shall be lapped one diamond at sides and ends. Where end laps do not occur at supports, they shall be laced or tied with hot-dipped galvanized steel wire.
5. All lath shall terminate against wall or soffits unless otherwise indicated on Drawings.

C. Plaster Accessories:

1. Install casing beads at every intersection of plaster and other materials.
2. Where plastered ceilings abut masonry walls, leave casing bead approximately 1/8 inch from the wall surface to allow for caulking. Install perforated vent strip where indicated.
3. Set accessories plumb, level and true to line, with a tolerance of 1/8-inch in 10-feet.

END OF SECTION 09201