

**SECTION 09 22 14  
METAL FURRING AND LATHING**

**PART 1 GENERAL**

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 specification sections, apply to work in this section.

1.2 SECTION INCLUDES

- A. Walls, bulkheads, and ceilings
- B. Metal lathing for wet plaster finish
- C. Section 08 31 00 – Access Doors and Frames

1.3 SYSTEM DESCRIPTION

- A. The extent of the use of metal furring and lathing as indicated on the drawings and/or specified.
- B. Fabricate horizontal ceiling and soffit framing to limit finish surface to 1/240 deflection under superimposed dead loads and wind uplift.

1.4 REFERENCES

- A. ASTM C841 – Standard Specification for the Installation of Interior Lathing and Furring
- B. ASTM C847 – Standard Specification for Metal Lath
- C. ASTM C933 – Standard Specification for Welded Wire Lath
- D. ASTM C1063 – Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster
- E. GA-600 – Fire Resistance Design Manual
- F. EMLA (Expanded Metal Lath Association) – Guide Specifications for Metal Lathing and Furring
- G. ASCE 7 – Minimum Design Loads of Buildings and Other Structures
- H. Florida Building Code (FBC)

1.5 SUBMITTALS

- A. Shop Drawings: Indicate prefabricated work, component details, stud layout, framed openings, anchorage, type and location of fasteners, and accessories or items required of other related work.
- B. Product Data: Provide data describing standard framing member materials and finish, product criteria, load charts and limitations.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials and store off the floor in dry area.
  - 1. When moisture occurs, immediately remove water and allow members to completely dry.
- B. Installation of rusted furring members is not acceptable.

**PART 2 PRODUCTS**

2.1 FRAMING MATERIALS

- A. Main Runner Channels; 1½" cold rolled, 16-ga steel, galvanized weight 500lb/1,000 LF.
- B. Cross Furring Channels; ¾" cold rolled, 16-ga steel, galvanized weight 300lb/1,000 LF.
- C. Hanger wire shall be 8-ga galvanized annealed.
- D. Tie wire shall be 16-ga galvanized annealed for framing members.
- E. Hangers: Galvanized steel, of size and type to suit application, rigidly support-ceiling components in place, and meet deflection limits as indicated.
- F. Lateral Bracing: Formed steel; minimum 16-ga thick; size and length as required.
- G. Casing Bead, formed zinc minimum 26-ga thick; **ground** depth governed by plaster thickness; maximum possible lengths; expanded metal flanges, with square edges.

1. Product: ClarkDietrich; #66X Zinc Expanded Flange Casing Bead, or comparable product.
- H. Corner Bead, formed zinc minimum 26-ga thick; depth governed by plaster thickness; maximum possible lengths; expanded metal flanges, with radii edge.
  1. Product: ClarkDietrich; #1A Expanded Corner Bead, or comparable product.
- I. Base Screed, formed zinc minimum 26-ga thick; ground depth governed by plaster thickness; maximum possible lengths; expanded metal flanges, with beveled edge.
  1. Product: ClarkDietrich; Foundation Weep Screed , or comparable product with specified ground.
- J. Control and Expansion Joint Accessories, formed zinc minimum 26-ga thick; accordion profile, 2" expanded metal flanges each side, with plaster ground thickness.
  1. Product: ClarkDietrich; #15 Double-V Control Joint, or comparable product.
  2. Product: ClarkDietrich; #40 Two-Piece Expansion Joint, or comparable product.
- K. Install plaster frames for recessed light fixtures furnished by electrical contractor under this section.
- L. The owner will consider vinyl beads and other accessories with documentation indicating the product performs equivalently with the metal system.

## 2.2 LATHING MATERIALS

- A. Metal Lath; ASTM C847; self-furring diamond mesh sheet; 3.4 lb/sq ft.
  1. Product: ClarkDietrich; Self-Furring Dimple Lath , or comparable product.
- B. Corner Mesh: Formed sheet steel; minimum 26-ga thick; expanded flanges shaped to permit complete embedding in plaster; minimum 4" size, as needed.
- C. Strip Mesh: Expanded metal lath, minimum 26-ga thick 4" wide x 24" long, as needed.

## 2.3 ACCESSORIES

- A. Tie wire, nails, screws and other supports, of type and size rigidly securing materials in place.

## 2.4 FINISHES

- A. Framing Materials: Galvanized
- B. Hangers, Anchors and Fastening Devices: Galvanized
- C. Lath Materials: G60 Galvanized
- D. Lathing Accessories: Zinc Alloy

# PART 3 EXECUTION

## 3.1 EXAMINATION

- A. Verify that conditions are ready to receive work.
- B. Verify field measurements are as shown on drawings.
- C. Beginning of installation means installer accepts existing conditions.

## 3.2 CEILING AND SOFFIT FRAMING

- A. Install furring to height indicated, erect after above ceiling or soffit work is complete.
  1. Coordinate the location of hangers with other work.
- B. Install furring independent of walls, columns and above ceiling work.
- C. Securely anchor hangers to structural members or embed in structural slab.
  1. Space hangers to achieve deflection limits indicated.
- D. Space the main carrying channels at maximum of 72" centers, and not more than 6" from walls.
  1. Lap the splices securely.
- E. Securely fix carrying channels to hangers, prevent turning/twisting and transmit full load to hangers.
- F. Place furring channels perpendicular to carrying channels, not more than 2" from perimeter walls, and rigidly secure.

1. Lap the splices securely.
  - G. Reinforce openings in suspension system that interrupt main carrying channels or furring channels with lateral channel bracing.
    1. Extend bracing minimum 24" past each opening.
  - H. Laterally brace suspension system.
- 3.3 CONTROL AND EXPANSION JOINTS
- A. Install control and expansion joints **as described in ASTM C1063**.
    1. Set both beads over 6" wide strip of **rubberized-asphalt, peel and stick** sheet to assist with air seal continuity.
  - B. Provide Control Joint Spacing as indicated on reflected ceiling plan, **per ASTM C1063**.
  - C. Provide Expansion Joint Spacing as indicated on reflected ceiling plan, **per ASTM C1063**.
- 3.4 LATHING
- A. Apply metal lath taut, with long dimension perpendicular to supports.
  - B. Lap ends minimum 1", and secure end laps with tie wire where they occur between supports.
  - C. Lap sides of diamond mesh lath minimum 1½", **not to exceed 3 inches**.
  - D. Attach metal lath to metal supports using tie wire at maximum 6" o. c.
  - E. Attach metal lath to concrete and concrete masonry using wirehair pins.
    1. Securely attach the anchors to backup surface and spaced a maximum 24" o. c.
  - F. Continuously reinforce internal angles with corner mesh, except where the metal lath returns 3" from corner to form the angle reinforcement; fasten at perimeter edges only.
  - G. Place corner bead at external wall corners; fasten at outer edges of lath only.
  - H. Place base screeds at termination of plaster areas; secure rigidly in place.
  - I. Place 4" wide strips of metal lath centered over junctions of dissimilar backing materials.
    1. Secure rigidly in place.
  - J. Place lath vertically above each top corner, each side of door, and glazed frame to 6" above ceiling.
  - K. Place casing beads at terminations of plaster finish.
    1. Butt and align ends.
    2. Secure rigidly in place.
  - L. Place strip mesh diagonally at corners of lathed openings.
    1. Secure rigidly in place.
- 3.5 TOLERANCES
- A. Maximum Variation from True Position: ⅛" per 10'
  - B. Maximum Variation of any Member from Plane: ⅛"

END OF SECTION