

**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