

SECTION 09206
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 I 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 08305 – Access Panels/Hatches

1.3 SYSTEM DESCRIPTION:

- A. The extent of the use of metal furring and lathing is 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. ML/SFA (Metal Lath / Steel Framing Association) – Specifications for Metal Lathing and Furring.
- G. ASCE 7-98 – Minimum Design Loads for Buildings and other Structures.
- H. Florida Building Code.

1.5 SUBMITTALS:

- A. Shop Drawings: Indicate prefabricated work, component details, stud layout, framed openings, anchorage to structure, 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 to prevent damage due to corrosion, moisture, excessive handling.
 - 1. When evidence of moisture occurs, immediately remove water and allow members to completely dry.

- B. Installation of rusted furring members will not be accepted.

PART 2 PRODUCTS

2.1 ACCEPTED MANUFACTURERS:

- A. Manufacturers subject to compliance with requirements, provide products of one of the following:
 1. Gold Bond Building Products Div., National Gypsum Co.
 2. Dale/Incor Industries
 3. United States Gypsum Co.

2.2 FRAMING MATERIALS:

- A. Main Runner Channels: 1½" cold rolled, 16-ga steel, galvanized weight 500#/1,000 LF.
- B. Cross Furring Channels: ¾" cold rolled, 16-ga steel, galvanized weight 300#/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, to rigidly support ceiling components in place, to 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; depth governed by plaster thickness; maximum possible lengths; expanded metal flanges, with square edges.
- H. Corner Bead: Formed zinc; minimum 26-ga thick; depth governed by plaster thickness; maximum possible lengths; expanded metal flanges, with radii edge.
- I. Base Screed: Formed zinc; minimum 26-ga thick; depth governed by plaster thickness; maximum possible lengths; expanded metal flanges, with beveled edge.
- J. Control and Expansion Joint Accessories: Formed zinc; minimum 26-ga thick; accordion profile, 2" expanded metal flanges each side.
- K. Plaster frames for recessed light fixtures furnished by electrical contractor, installed under this section.

2.3 LATHING MATERIALS

- A. Metal Lath: ASTM C847; self-furring mesh stamped sheet; 3.4 lb/sq ft.
- B. Corner Mesh: Formed sheet steel; minimum 26-ga thick; expanded flanges shaped to permit complete embedding in plaster; minimum 4" size.
- C. Strip Mesh: Expanded metal lath, minimum 26-ga thick; 4" wide x 24" long.

2.4 ACCESSORIES

- A. Anchorage: Tie wire, nails, screws and other metal supports, of type and size to suit application; to rigidly secure materials in place.

2.5 FINISHES

- A. Framing Materials: Galvanized.
- B. Hangers, Anchors and Fastening Devices: Galvanized.
- C. Lath Materials: Galvanized.

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. 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. Space hangers to achieve deflection limits indicated.
- D. Space main carrying channels at maximum 72" centers; not more than 6" from wall surfaces. Lap splice securely.
- E. Securely fix carrying channels to hangers to prevent turning or twisting and to transmit full load to hangers.
- F. Place furring channels perpendicular to carrying channels, not more than 2" from perimeter walls, and rigidly secure. Lap splice securely.
- G. Reinforce openings in suspension system that interrupt main carrying channels or furring channels with lateral channel bracing. Extend bracing minimum 24" past each opening.
- H. Laterally brace suspension system.

3.3 CONTROL AND EXPANSION JOINTS

- A. Install control and expansion joints with back-to-back casing beads set $\frac{1}{4}$ " apart. Set both beads over 6" wide strip of polyethylene sheet to assist with air seal continuity.
- B. Control Joint Spacing: As indicated on reflected ceiling plan.
- C. Expansion Joint Spacing: As indicated on reflected ceiling plan.

3.4 LATHING

- A. Apply metal lath taut, with long dimension perpendicular to supports.
- B. Lap ends minimum 1". Secure end laps with tie wire where they occur between supports.
- C. Lap sides of diamond mesh lath minimum 1 $\frac{1}{2}$ ".
- 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. Ensure that anchors are securely attached to backup surface and spaced at 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. Secure rigidly in place.
- J. Place lath vertically above each top corner and each side of door and glazed frames to 6" above ceiling line.
- K. Place casing beads at terminations of plaster finish. Butt and align ends. Secure rigidly in place.

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L. Place strip mesh diagonally at corners of lathed openings. Secure rigidly in place.

3.5 TOLERANCES:

A. Maximum Variation from True Position: $\frac{1}{8}$ " per 10'.

B. Maximum Variation of any Member from Plane: $\frac{1}{8}$ ".

END OF SECTION