

# LATH AND PLASTER - SECTION 09200

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Use this guide specification to specify conventional gypsum plaster systems by U.S. Gypsum Co., incorporating specially shaped light gage steel framing members for construction of load bearing and non-load bearing, non-rated and fire-rated partitions and other elements. Review a copy of USG publication SA-920 before editing this specification.

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Use the following for ALL Systems. Re-number and re-letter after making all selections. Delete all bolded instructions.

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## PART 1 GENERAL

### 1.01 SECTION INCLUDES

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Select Systems paragraphs from Articles 1.05 through 1.08. In this Article use the paragraphs under the bolded [Systems selected in 1.05 through 1.08] shown below. Delete bolded [Systems] and paragraphs not used.

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[System HA], [System HB], [System HC]

- A. Steel framed interior gypsum lath and plaster furring.

[System IA], [System IB]

- A. Steel framed, non-load bearing interior metal lath and plaster partitions.

[System JA], [System JC], [System JE], [System JF]

- A. Steel framed, non-load bearing interior metal lath and plaster ceilings.

[System KA], [System KB], [System KC], [System KE]

- A. Steel framed interior metal lath and plaster column fireproofing.

[System LA]

- A. Steel framed interior metal lath and plaster beam fireproofing.

### 1.02 SECTION DOES NOT INCLUDE

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If any of the bolded [Systems] in this Article 102 were selected in Article 1.01, use the paragraph under the bolded [Systems] shown below. Delete bolded [Systems] and paragraphs not used.

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[System JC], [System JE], [System JF]

- A. Concrete; see Division 3 Sections.

[System JA], [System JC], [System JE]

- A. Steel Joist; see Division 5 Sections.

[System JA], [System JC], [System JE], [System JF]

- A. Steel Deck; see Division 5 Sections.

[System JA]

- A. Roof Insulation; see Division 7 Sections.

\*\*\*\*\*Use the following for ALL Systems.\*\*\*\*\*

### **1.03 REFERENCES**

- A. See Section 01091-Reference Standards.

### **1.04 DEFINITIONS**

- A. Adhere: Fasten with adhesive.
- B. Attach: Fasten with steel screws, power-driven or non-power-driven.
- C. Horizontal: Long dimension of board or insulation perpendicular to studs or other framing members.
- D. Inside: That space between studs and between inside faces of inner board faces or above ceiling boards.
- E. Position: Place without attaching or adhering.
- F. Top Side: Above principal floor or ceiling framing.
- G. Under Side: Below framing systems to which ceiling boards are mounted.
- H. Vertical: Long dimension of board or insulation parallel with studs or other framing members.

I. Abbreviations: See Section 01092-Abbreviations.

\*\*\*\*\*Use this Article Title if project contains this furring type.\*\*\*\*\*

### **1.05 STEEL FRAMED GYPSUM LATH AND PLASTER FURRING**

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Select one or more of the following System paragraphs. Delete those not selected.

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A. Exterior Wall Furring; System HA:

1. Non-rated. Vertical steel studs @ 16 in. o.c. Single layer construction. Gypsum plaster base face boards attached to studs. Plaster applied to plaster base; two coat work.

A. Exterior Wall Furring; System HB:

1. Non-rated. Vertical Z-furring channels @ 16 in. o.c. Single layer construction. Gypsum plaster base face boards attached to channels; inside - sound insulation between channels. Plaster applied to plaster base; two coat work.

A. Exterior Wall Furring; System HC:

1. Non-rated. Vertical Z-furring channels @ 24 in. o.c. Single layer construction. Gypsum plaster base face boards attached to channels; inside - rigid foam insulation between channels. Plaster applied to plaster base; two coat work.

\*\*\*\*\*Use this Article Title if project contains this partition type.\*\*\*\*\*

### **1.06 STEEL FRAMED, NON-LOAD BEARING INTERIOR METAL LATH AND PLASTER PARTITIONS**

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Select one or more of the following System paragraphs. Delete those not selected.

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A. Interior Partition; System IA:

1. MLA Design T-129 OSU, non-load bearing, 2 in. solid. Framing - Steel channel studs @ 16 in. o.c. Single layer construction. Metal lath wire tied to studs. Plaster applied to metal lath; three coat work.

A. Interior Partition; System IB:

1. UL Design U484, non-load bearing. Framing - Steel studs @ 16 in. o.c. Left side - gypsum plaster base baseboards attached to studs, self-furring metal lath attached to studs through plaster base; right side - gypsum plaster base baseboards attached to studs, self-furring metal lath attached to studs through plaster baseboards. Plaster applied to metal lath; three coat work.

A. Interior Partition; System IC

1. UL Design U488, non-load bearing. Framing - Steel studs @ 16 in. o.c. Left side - gypsum plaster baseboards attached to studs; right side - gypsum plaster baseboards attached to studs; inside - insulation friction-fit between studs. Plaster applied to plaster base; two coat work.

A. Interior Partition; System ID

1. Non-rated; plaster applied directly to concrete masonry units (CMU); 5/8 in. thick.

A. Interior Partition D; System IE

1. Plaster applied to monolithic concrete coated with plaster bonding agent; 5/8 in. thick.

\*\*\*\*\*Use this Article Title if project contains this ceiling type.\*\*\*\*\*

## **1.07 STEEL FRAMED METAL LATH AND PLASTER CEILINGS**

\*\*\*\*\*

Select one or more of the following System paragraphs. Delete those not selected.

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A. Interior Metal Lath and Plaster Ceiling; System JA:

1. NBS Design NBS-57, 1-1/2 hr. Framing - Suspended steel grillage; cold-rolled steel channel main runners and cross furring. Top side - roof insulation atop steel roof deck; under side - metal lath wire attached to grillage. Plaster applied to metal lath; three coat work.

A. Interior Metal Lath and Plaster Ceiling; System JC:

1. BMS Design BMS-92, R4024-12, 2 hr. Framing - Cold-rolled steel furring channels wire tied to steel joists. Top side - concrete atop steel deck; under side - metal lath wire tied to furring channels. Plaster applied to metal lath; three coat work.

A. Interior Metal Lath and Plaster Ceiling; System JE:

1. BMS Design BMS-92, R4024-12, 3 hr. Framing - Cold-rolled steel furring channels wire tied to steel joists. Top side - concrete atop steel deck; under side - metal lath wire tied to furring channels. Plaster applied to metal lath; three coat work; 7/8 in. thick from lath face.

A. Interior Metal Lath and Plaster Ceiling; System JF:

1. UL Design D401, 4 hr. Framing - Suspended steel grillage; cold-rolled steel channel main runners and cross furring. Top side - concrete atop steel deck; under side - metal lath wire tied to furring channels. Plaster applied to metal lath; three coat work; 7/8 in. thick from lath face.

\*\*\*\*\*Use this Article Title if project contains fireproofing.\*\*\*\*\*

## **1.08 STEEL FRAMED METAL LATH AND PLASTER FIREPROOFING**

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Select one or more of the following System paragraphs. Delete those not selected.

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A. Column Fireproofing; System KA:

1. BMS Design BMS-92, steel columns minimum W10x49, 1 hr. Metal lath wrap attached to column. Plaster applied to metal lath; three coat work; 3/4 in. thick from lath face.

A. Column Fireproofing; System KB:

1. UL Design X402, steel columns minimum W10x49, 2 hr. Self-furring metal lath wrap attached to column. Plaster applied to metal lath; three coat work; 1 in. thick from lath face.

A. Column Fireproofing; System KC:

1. UL Design X402, steel columns minimum W10x49, 3 hr. Self-furring metal lath wrap attached to column. Plaster applied to metal lath; three coat work; 1-3/4 in. thick from lath face.

A. Column Fireproofing; System KE:

1. UL Design X402, steel columns minimum W10x49, 4 hr. Self-furring metal lath wrap attached to column. Plaster applied to metal lath; three coat work; 1-7/8 in. thick from lath face.

A. Beam Fireproofing; System LA:

1. UL Design D403, steel beams W12x58 and larger, 4 hr. Self-furring metal lath wrap attached to beam. Plaster applied to metal lath; three coat work; 1-1/2 in. thick from lath face.

\*\*\*\*\*Use the following for ALL Systems.\*\*\*\*\*

### **1.09 SUBMITTALS**

- A. Follow Section 01340-Product Data, Shop Drawings, and Samples.
- B. Product Data: Submit manufacturer's product specifications and installation instructions for systems shown.
- C. Certificates: Submit manufacturer's certification of compliance with fire and sound requirements for each fire-rated system shown.

### **1.10 QUALITY ASSURANCE**

- A. Single Source Responsibility: Provide steel framing, lath, plaster, insulation, fasteners, joint treatments, and other materials in the assembly or assemblies from the single manufacturer which has utilized these materials in recognized fire containment and sound tests.

### **1.11 PROJECT CONDITIONS**

- A. Do no plastering when temperature in space being finished is less than 55°F (13°C). Ventilation must be adequate to carry off excess moisture.

## **PART 2 PRODUCTS**

### **2.01 MATERIALS**

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Select one or more of the following System paragraphs. Delete remaining [Systems] and System paragraphs.

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A. Runners:

1. CR-runners; [System HB], [System IB], [System IC]: Galvanized steel; width and metal thickness (25 ga. minimum) to accommodate adequately loads imposed from studs selected from stud manufacturer's published limiting height table, lengths as required; ASTM C645; as supplied by USG.

A. Runner Fasteners; [System HB], [System IB], [System IC]:

1. Power-driven type; must withstand 193 lb. single shear and 200 lb. bearing force when driven into head or sill without exceeding allowable design stress in runner, fastener, or structural support.

A. Studs:

1. ST-studs; [System HB], [System IB]: Galvanized steel; width (min. 2-1/2") and metal thickness (25 ga. minimum) as selected from stud manufacturer's published limiting height table; unspliced lengths, as required; ASTM C645; as supplied by USG.

A. Studs:

1. ST Studs; System IC: Galvanized steel, 20 gage; width (min. 2-1/2"), as selected from stud manufacturer's published limiting height table; unspliced lengths, as required; ASTM C645; as supplied by USG.

A. Miscellaneous Products:

1. Cold-Rolled Channel; [System JA], [System JF]: 1-1/2 in. x 17/32 in. x 16 ga.; painted steel, ASTM A446/A446M, Grade A; as supplied by USG.
1. Cold-Rolled Channel; [System IA], [System JA], [System JC], [System JE], [System JF]: 3/4 in. x 1/2 in. x 16 ga.; painted steel, ASTM A446/A446M, Grade A; as supplied by USG.
1. Tie wire; [System IA], [System JA], [System JC], [System JE], [System JF]:
  - a. Galvanized carbon steel; soft temper, 18 gage; ASTM A641; as supplied by USG.
1. Hanger wire; [System JA], [System JF]:
  - a. Galvanized carbon steel; soft temper, 8 gage; ASTM A641; as supplied by USG.
1. Metal Trim:
  - a. Casing beads: Galvanized steel; expanded flange; square edge; thickness as required; No. 66.
1. Control Joint:
  - a. V hat-shaped: Zinc; No. 50, 75, or 100 093, SHEETROCK Brand.
1. Fasteners:
  - a. Steel framing: Steel screws; lengths as recommended by gypsum products manufacturer; Type S or S-12, pan head.
  - b. Gypsum plaster base to steel framing: Steel screws; lengths as required, Type S bugle head and pancake head.
1. Outside Corner Reinforcement:
  - a. Slit and expanded sheet steel flanges, galvanized; 2-7/8 in. wide flanges, Corner Bead 1-A, supplied by USG.
1. Inside Corner Reinforcement:

- a. Slit and expanded sheet steel flanges; 3 in. flanges, Cornerite, supplied by USG.
- 1. Joint Reinforcement:
  - a. Slit and expanded sheet steel; Striplath, supplied by USG.
- 1. Metal Clips: [System HA], [System HB], [System HC], [System IB], [System IC]: Galvanized steel; BRIDJOINT Field Clip, B-1, supplied by USG.
- 1. Plaster Bonding Agent; System IE: Quality liquid plaster bonding agent, ASTM C631.

A. Plaster Base:

- 1. Baseboards; [System HA], [System HB], [System HC], [System IB]: Gypsum lath; 3/8 in. thick x 16 in. wide x 48 in. or 96 in. long; regular; ASTM C37; ROCKLATH Brand; USG.

A. Plaster Base:

- 1. Baseboards; System IC: Gypsum lath; 3/8 in. thick x 16 in. wide x 48 in. or 96 in. long; Type X; ASTM C37; ROCKLATH FIRECODE Brand; USG.

A. Metal Lath

- 1. Metal lath, System IA: Slit and expanded galvanized sheet steel; 2.5 lb./s.y; Fed Spec QQ-L-101C; Junior Diamond Mesh Lath; supplied by USG.
- 1. Metal lath; [System JA], [System JC], [System JE], [System JF], [System KA]: Slit and expanded sheet steel; 3.4 lb./ft.<sup>2</sup>; Fed Spec QQ-L-101C; Junior Diamond Mesh Lath; supplied by USG.
- 1. Metal lath; [System IB], [System KB], [System KC], [System KE], [System LA]: Slit and expanded sheet steel; 3.4 lb./ft.<sup>2</sup>, self-furring; Fed Spec QQ-L-101C; Junior Diamond Mesh Lath, self-furring; supplied by USG.

A. Insulation

- 1. Blankets; System HB: Paperless, semi-rigid spun mineral fiber mat, minimum 1 in. thick; ASTM C665, Type I; THERMAFIBER Fire Safety FS-15 Insulating Blankets.
- 1. Rigid Foam Insulation; System HC Extruded polystyrene closed-cell foam, min. 1" thick.

A. Basecoat Plaster:

- 1. [System HA], [System HB], [System HC], [System IC], [System ID], [System IE], [System JA], [System JC]:  
Two coat work, total thickness 1/2 in. or greater:



\*\*\*\*\*Select one.\*\*\*\*\*

- a. RED TOP Gypsum Plaster, ASTM C28.
- b. Sand Aggregate, ASTM C35
- c. Mix: 100 lbs. plaster to 2-12 cu. ft. sand
- a. STRUCTO-LITE Gypsum Plaster, regular or masonry
- b. Neat (no aggregate)
- c. Mill-mixed
- 1. System IA: 2 in. solid partition
  - a. RED TOP Gypsum Plaster, ASTM C28.
  - b. Sand Aggregate, ASTM C35
  - c. Mix: 100 lbs. plaster to 2 cu. ft. sand, scratch and brown.
- 1. [System JA], [System JC], [System KA]:  
Three coat work, total thickness 5/8 in. or greater:
  - a. RED TOP Gypsum, ASTM C28
  - b. Sand Aggregate; ASTM C35
  - c. Mix: Scratch - 100 lbs. plaster to 2 cu. ft. sand  
Brown - 100 lbs. plaster to 3 cu. ft. sand
- 1. System JE: Three coat work, total thickness 7/8 in.:
  - a. RED TOP Wood Fiber Plaster, ASTM C28
  - b. Neat (no aggregate)
  - c. Mill-mixed
- 1. [System KB], [System KC], [System KE]: Three coat work, total thickness 1 in. or greater:

\*\*\*\*\*Select one\*\*\*\*\*

- a. RED TOP Gypsum Plaster, ASTM C28
- b. Perlite Aggregate, ASTM C35
- c. Mix: Scratch - 100 lbs. plaster to 2 cu. ft. Perlite  
Brown - 100 lbs. plaster to 3 cu. ft. Perlite
- a. STRUCTO-LITE Gypsum Plaster
- b. Neat
- c. Mill-mixed
- 1. System LA: Three coat work, total thickness 1-1/2 in.
  - a. RED TOP Gypsum Plaster, ASTM C28
  - b. Perlite Aggregate, ASTM C35
  - c. Scratch - 100 lbs. plaster to 2 cu. ft. Perlite  
Brown - 100 lbs. plaster to 2 cu. ft. Perlite

A. Finish Plaster:

\*\*\*\*\*Select as applicable.\*\*\*\*\*

\*\*\*\*\*Use over all sanded basecoats.\*\*\*\*\*

- 1. Smooth Trowel:
  - a. IVORY Finish Lime; double hydrate; ASTM C206, Type S
  - b. RED TOP/or CHAMPION/or STAR Gauging Plaster; ASTM C28

- c. Mix: 50 lbs. gauging plaster to 100 lbs. lime

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Use over gypsum lath and masonry substrates with Perlite aggregate basecoats.

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1. Smooth Trowel:
  - a. IVORY Finish Lime; double hydrate; ASTM C206, Type S
  - b. RED TOP/or CHAMPION/or STAR Gauging Plaster, "Quality"; ASTM C28
  - c. Mix: 50 lbs. gauging plaster to 100 lbs. lime

\*\*\*\*\*Use over all sanded basecoats (optimum finish coat hardness).\*\*\*\*\*

1. Smooth Trowel:
  - a. IVORY Finish Lime; double hydrate; ASTM C206, Type S
  - b. STRUCTO-GAUGE Gauging Plaster; ASTM C28 (5000 psi compressive strength)
  - c. Mix: 100 lbs. gauging plaster to 100 lbs. lime

\*\*\*\*\*Use over all basecoats.\*\*\*\*\*

1. Sand Float Finish:
  - a. IVORY Finish Lime; double hydrate; ASTM C206, Type S
  - b. KEENES Cement; RED TOP Brand; ASTM C61
  - c. Sand; Silica Sand passing 30 mesh screen
  - d. Mix: 100 lbs. KEENES Cement to 200 lbs., lime to 800 lbs. silica sand

\*\*\*\*\*Use the following for ALL Systems.\*\*\*\*\*

## **2.03 MANUFACTURER:**

- A. United States Gypsum Company.

## **2.04 SUBSTITUTIONS**

- A. Products of other manufacturers will not be considered.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Examine locations to receive materials for conditions which will adversely affect installation. Do not start materials installation until unsatisfactory conditions have been corrected.

### **3.02 PREPARATION**

- A. Field Dimensions: Verify location and dimensions where materials are to be installed.
- B. Coordinate work of other Sections which is integral with partition installation.

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If you wish a brief Part 3, use Articles 3.03 through 3.08. If you wish a comprehensive Part 3, delete Articles 3.03 through 3.08 and continue with Article 3.09. Re-number and re-letter Articles and Paragraphs.

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### **3.03 FRAMING INSTALLATION**

- A. Comply with gypsum products manufacturer's published instructions.

### **3.04 GYPSUM LATH APPLICATION**

- A. Comply with gypsum products manufacturer's published instructions.

### **3.05 METAL LATH APPLICATION**

- A. Comply with gypsum products manufacturer's published instructions.

### **3.06 PLASTER APPLICATION AND FINISHING**

- A. Comply with gypsum products manufacturer's published instructions.

### **3.07 CLEANING**

- A. Follow Section 01710-Final Cleaning.

### **3.08 PROTECTION**

- A. Protect the work from damage; repair to Architect's satisfaction or replace damaged materials.

### **END OF SECTION**

\*\*\*\*\*END for brief Part 3.\*\*\*\*\*

\*\*\*\*\*Continue here for a comprehensive Part 3.\*\*\*\*\*

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Use this for Systems HA, HB, HC, IB, IC, JA, JC, JE, JF, KA, KB, KC, KE, and LA.

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### **3.09 STEEL FRAMING INSTALLATION**

#### **A. Substrate Preparation:**

1. Verify the following:
  - a. Exterior wall and environmental conditions are acceptable for furring system application.
  - b. Substrates are suitable to receive steel framing.

#### **B. General Requirements:**

1. Comply with manufacturer's published instructions.
2. Provide steel studs with suitable structural properties for installation conditions.
  - a. For loadbearing partitions, verify allowable stud axial loads.
3. Provide properly sized fasteners suitably designed for attachment substrates, for resultant maximum holding power and pull-through resistance in steel framing components.
4. Limit cutting of holes in studs for piping, conduit, and similar penetrations, to maximum 75 percent of stud width and not less than 12 in. o.c.
5. Do not support heavy concentrated loads from ceiling framing members.
6. Fire-rated application: Provide steel framing fasteners, including size, spacing, and attachment, pursuant to fire test reports.

\*\*\*\*\*Use this for System IA.\*\*\*\*\*

#### **C. Partition Framing:**

1. Install 1-3/4 in. x 1-3/4 in. steel angle runners with holes in one leg, top and bottom, with power activated fasteners spaced 24 in. o.c.
2. Install vertical 3/4 in. cold-rolled channels 16 in. o.c. and wire tie to top and bottom angle runners through holes.
3. Wire tie metal lath to cold-rolled channels with 18 gage wire ties spaced 6 in. o.c.

\*\*\*\*\*Use this for System IB and System IC.\*\*\*\*\*

#### **C. Partition Framing:**

1. Attach bottom and top runners to supporting substrates. Locate fasteners 2 in. from each end, and 24 in. o.c. maximum.
  - a. Attach runner ends at door frames with two fasteners.
  - b. At partition corners, extend one runner to end or corner and butt or overlap intersecting runner, allowing proper clearance for board. Do not miter corners.

2. Insert studs between bottom and top runners. Position studs vertically with open sides facing in same direction and web punch-outs properly aligned. Attach studs to runners at partition intersections and corners. Do not attach intermediate partition studs to runners.
  - a. Space studs pursuant to system description.
  - b. Place studs in direct contact with door frame jambs, abutting partitions, partition corners, and existing construction elements.
  - c. Place asphalt felt separation strips between studs and wall surfaces where studs directly abut exterior walls or there is the potential for water condensation or penetration through the wall surface.
3. Framing for wall openings:
  - a. Frame door openings and borrowed light openings with runners and studs. Vertically position full height strut-studs adjacent to frames and attach to bottom and top runners. Provide additional strut-studs at jambs for heavy or oversize doors.
  - b. Fabricate sill and header sections from runners and attach to strut-studs pursuant to manufacturer's published instructions. Install over less-than-ceiling height door frames, and above and below borrowed light frames.

\*\*\*\*\*Use this for Systems JA, JC, JE, and JF.\*\*\*\*\*

#### D. Ceiling Framing:

1. Grillage framing:
  - a. Space hanger wires 48 in. o.c. along carrying channels and maximum 6 in. from channel ends. Secure hanger wires to supporting substrates pursuant to manufacturer's published instructions.
  - b. Install carrying channels within 6 in. of walls. Position, level, and secure with hanger wires. Provide 1 in. clearance between channel ends and adjacent walls.
    - 1) Space carrying channels pursuant to system description.
    - 2) Provide 12 in. long interlocked flange overlaps for splices and wire tie to each end.
  - c. Install furring channels perpendicular to carrying channels. Space furring channels within 6 in. of walls. Provide 1 in. clearance between furring channel ends and adjacent walls. Attach to carrying channels with wire ties or furring channel clips to suit installation conditions.
    - 1) Space furring channels pursuant to system description.
    - 2) Provide 8 in. long nested overlaps for splices and wire tie each end.

\*\*\*\*\*Use this for Systems JC, and JE.\*\*\*\*\*

- d. Install furring channels perpendicular to supporting members. Space furring channels within 6 in. of walls. Provide 1 in. clearance between furring channel ends and adjacent walls. Attach to carrying channels with wire ties or furring channel clips to suit installation conditions.
  - 1) Space furring channels pursuant to system description.
  - 2) Provide 8 in. long nested overlaps for splices and wire tie each end.
- e. Maintain grillage lateral stability at lighting fixtures and similar penetrations with suitable reinforcements.

\*\*\*\*\*Use this for Systems HA, HB, and HC.\*\*\*\*\*

#### E. Wall Furring:

\*\*\*\*\*Use this for Systems HB and HC.\*\*\*\*\*

- 1. Z-furring channels:
  - a. Position furring channels pursuant to manufacturer's published instructions. Space furring channels 24 in. o.c. Attach to substrates with fasteners 24 in. o.c.
  - b. Sequence mineral fiber insulation installation pursuant to manufacturer's published instructions.
  - c. Sequence rigid foam insulation installation pursuant to manufacturer's published instructions.

\*\*\*\*\*Use this for System HA.\*\*\*\*\*

- 1. Steel stud furring:
  - a. Provide a freestanding steel stud furring assembly.
  - b. Attach bottom and top runners to supporting substrates. Locate fasteners 2 in. from each end, and 24 in. o.c. maximum.
  - c. Insert studs between bottom and top runners. Position studs vertically with open sides facing in same direction and web punch-outs properly aligned. Space studs 16 in. o.c. and attach to runners.
    - 1) For heights greater than 12 ft, also attach studs to walls with adjustable wall furring brackets at mid height or closer spacing to suit installation conditions.

\*\*\*\*\*Use this for Systems HA, HB, HC, IB, and IC.\*\*\*\*\*

### **3.10 GYPSUM LATH BOARD APPLICATION**

#### A. Substrate Preparation:

- 1. Verify the following:

- a. Environmental conditions are acceptable for board application.
- b. Location of vapor retarders.
- c. Throat openings for hollow metal frames are acceptable to receive boards.
- d. Proper spacing for metal supports to receive boards.

B. General Requirements:

1. Horizontal board installations: Long edges of board at right angles to framing members.
2. Loosely butt plaster baseboard joints. Do not force boards into position.
3. Position end joints between studs and support with B1 BRIDJOINT clips.
4. Install screws in board field first, working toward board edges. Hold boards in firm contact with framing while installing screws. Install screws perpendicular to board substrates. Drive screw heads flush with board paper face.
5. Cut boards to fit neatly around electrical outlets, switches, piping, and similar penetrations in partition substrates.
6. Fully grout door frames with gypsum/sand plaster. Do not terminate boards against trim returns.
7. Metal accessories:
  - a. Install metal accessories at inside and outside corners formed by board intersections or intersection of board with another surface.
  - b. Sequence metal accessories application with board application around edges and wall openings, including doors and windows.
  - c. Install corner beads at all outside corners.
  - d. Provide control joints where indicated on drawings.
  - e. Install casing beads where plaster system terminates against masonry or dissimilar materials. Accurately cut and miter ends.
  - f. Reinforce inside corners, openings, and joints between dissimilar plaster bases with metal lath accessories suitable for the intended use.
8. Provide suitable anchorages and reinforcements for attachment of fixtures, cabinetry, and similar heavy affixed items.
  - a. Do not support lighting fixtures, air vents, or similar ceiling penetrations on boards.
9. For sound-rated partitions, provide sound attenuation blankets in sequence with board installation pursuant to manufacturer's published instructions.

\*\*\*\*\*Use this for Systems HA, HB, and HC.\*\*\*\*\*

D. Furred Board Application:

1. Attach boards with long dimension perpendicular to furring channel.

2. Position end joints between channel flanges and secure with B-1 BRIDJOINT Clips. Fit joints neatly and accurately. Stagger end joints.
3. Attach boards to furring channels with Type S screws spaced pursuant to manufacturer's published instructions.

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Use this for Systems IA, IB, JA, JC, JE, JF, KA, KB, KC, KE, and LA.

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### **3.12 METAL LATH APPLICATION**

#### **B. General Requirements:**

1. Pursuant to manufacturer's published instructions.
2. Verify suitability of plaster system metal lath for contour plaster application.
3. Apply lath with long dimension perpendicular to supports and end joints staggered between lath courses. Provide minimum 1 in. end laps and 1/2 in. side laps. Where end laps occur between supports, tie with 18 gage tie wire. For walls, position lath so that lower sheets overlap upper sheets.
4. Secure lath to all supports with fasteners at maximum 6 in. o.c.
  - a. Metal supports: Attach lath with minimum 18 gage tie wire.
  - b. Screw self-furring metal lath to steel studs through gypsum lath and through metal lath dimples only.
5. Cut lath to fit neatly around electrical outlets and similar openings in finished plaster work.
6. For interior angles, form metal lath into corners and return onto abutting surfaces.
7. Metal accessories:
  - a. Install corner beads at all outside corners.
  - b. Provide control joints where indicated on drawings.
  - c. Install casing beads where plaster systems terminate against masonry or dissimilar materials, and around wall openings. Accurately cut and miter ends. Wire tie to lath.
  - d. Reinforce inside corners, openings, and joints between dissimilar plaster bases with metal lath accessories suitable for the intended use.

\*\*\*\*\*Use this for ALL Systems.\*\*\*\*\*

### **3.13 BASECOAT PLASTER APPLICATION**

#### **A. Substrate Preparation:**

1. Verify the following:
  - a. Environmental conditions are acceptable for plaster finishing.
  - b. Metal lath substrates are acceptable to receive plaster finish



for each application.

- d. Plaster grounds are suitable in design for each application and properly set for plaster finish thickness.

B. General Requirements:

1. Pursuant to manufacturer's published instructions.
2. Plaster mixes:
  - a. Plaster base coats are defined as the first coat in a two coat system and the scratch coat and brown coat in a three coat system.
  - b. Mix base coat plasters in a mechanical mixer to a uniform consistency.
    - 1) Prepare only one hour's supply of plaster at one time and do not remix if plaster has started to set. Discard all such plaster.
  - c. Add water and aggregate to mixes pursuant to manufacturer's published instructions.
    - 1) Provide base coat mixes within slump ranges, and field verify, pursuant to manufacturer's published instructions.
  - d. Use application methods within limitations pursuant to manufacturer's published instructions.