Section 09 23 00
Gypsum Plaster

The following paragraphs are for insertion into sections of generic specifications or proprietary specifications covering gypsum board products manufactured by National Gypsum Company. The Gold Bond® BRAND product name follows the generic description in parentheses.

PART 1 GENERAL

1.01 SUMMARY

(Specifier Note: Edit below to conform to project requirements).

A. Section Includes: Gypsum and metal lath bases for the support of gypsum plaster used as a finish for partitions, ceilings, and as column fireproofing.

(Specifier Note: Edit list below to conform to project requirements. Verify section numbers and titles).

B. Related Sections: 06 10 00

(Specifier Note: If project includes gypsum board supported by wood framing then retain reference to section).

1. Section 06 10 00, Rough Carpentry.
2. Section 09 29 00, Gypsum Board.
3. Section 09 26 13, Veneer Plaster.

(Specifier Note: Use the paragraph below to identify alternatives described in Division 01, Section 01 23 00, that includes work of this section).

C. Alternates:

1.02 REFERENCES

(Specifier Note: Delete references not used in Parts 1,2 or 3).

A. American Society for Testing and Materials (ASTM):
1. A 641, Specification for Zinc-Coated (Galvanized) Carbon Steel Wire.
2. C 28, Specification for Gypsum Plasters.
3. C 35, Specification for Inorganic Aggregates for Use in Gypsum Plaster.
4. C 37, Specification for Gypsum Lath.
5. C 59, Specification for Gypsum Casting and Molding Plaster.
6. C 841, Specification for Installation of Interior Lathing and Furring.
7. C 842, Specification for Application of Interior Gypsum Plaster.
8. C 847, Specification for Metal Lath.
9. C 954, Specification for Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Bases to Steel Studs from 0.33 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness.
10. C 587, Specification for Gypsum Veneer Plaster.
11. C 1002, Specification for Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Bases.
12. C 1396, Specification for Gypsum Board (Gypsum Base for Veneer Plaster).

1.03 SUBMITTALS

A. Product Data: Manufacturers' specifications and installation instructions for each product specified.

B. Shop Drawings: Show layout of control joints.

1.04 QUALITY ASSURANCE

(Specifier Note: Retain below if appearance is critical or if an unusual finish is specified).

A. Mock-Ups:
   1. Lath and plaster an actual wall surface for each finish specified to show color, texture, and workmanship. Provide mock-ups of at least 100 sq. ft. Obtain the Architect's approval of mock-up locations.
   2. Simulate finished lighting conditions for the Architect's review of mock-up.
   3. Do not start plastering until mock-up is approved by the Architect. Provide additional mock-ups if necessary to obtain approval. Do not alter mock-ups until plastering is completed.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Packaging and Shipping: Have materials shipped in manufacturer's original packages showing manufacturer's name and product brand name.

(Specifier Note: Revise below if no gypsum lath is needed).

B. Storage and Protection: Store materials inside and protected from damage by the elements. Protect ends, edges, and faces of gypsum lath from damage. Protect metal framing and accessories from bending.

1.06 PROJECT CONDITIONS

A. Environmental Requirements: Comply with ASTM C 842.

PART 2 PRODUCTS

2.01 MANUFACTURERS

(Specifier Note: Edit list below to conform to project requirements. If other manufacturers are being added to this section, then add listings of their proprietary product names).

(Specifier Note: Proprietary product names may be listed in this article or in the "Materials" article below. Listing them in both articles is overkill and invites coordination errors).

A. National Gypsum Company
   1. Gypsum Lath:
      a. Regular: Gold Bond BRAND Kal-Kore Plaster Base.
      b. Fire Rated: Gold Bond BRAND Kal-Kore Fire-Shield and Fire-Shield C Plaster Base.
      c. Regular, Foil-Backed: Gold Bond BRAND Kal-Kore Foil-Backed Plaster Base.
   2. Gypsum Plaster:
      a. Base Plaster: Gold Bond BRAND Two-Way Hardwall Gypsum Plaster.
      b. Base Plaster: Gold Bond BRAND Gypsolite Plaster.
      c. Finish Plaster: Gold Bond BRAND Super-White Gauging Plaster.
      d. Finish Plaster: Gold Bond BRAND Super-White Moulding Plaster.
      e. Finish Plaster: Kal-Kote BRAND Smooth Finish Plaster.
      f. Finish Plaster: Kal-Kote BRAND Texture Finish Plaster.

g. Finish Plaster: Uni-Kal BRAND Veneer Plaster.
h. Finish Plaster: X-KALibur BRAND Veneer Plaster.

(Specifier Note: If specifying by the proprietary method, add manufacturers and product names for metal framing, metal lath, and accessories. Follow the format in the text article).

2.02 MATERIALS

(Specifier Note: This article includes generic descriptions of gypsum board construction products, the names of the corresponding National Gypsum products follow in parenthesis. If this section is being edited to be generic, then these product names should be deleted).

If other manufacturers are being added to this section, then (1) add the proprietary product names of those manufacturers, or (2) if proprietary names are listed in the "Manufacturers" article above, then delete them from this article altogether).

(Specifier Note: Verify descriptions of metal framing products with manufacturer).

A. Metal Framing:

(Specifier Note: Verify cross reference below).

1. Studs: See Section 09 29 00.
2. Main Runner Channels: 2 in. cold rolled steel channel, weighing 590 lbs. per 1000 lin. ft. with min. base steel of 0.054 in., galvanized or painted.
3. Main Runner Channels: 1-1/2 in. cold rolled steel channel, weighing 475 lbs. per 1000 lin. ft. with min. base steel of 0.054 in., galvanized or painted.
4. Cross Furring Channels: 3/4 in. cold rolled steel channel, weighing 300 lbs. per 1000 lin. ft. with min. base steel of 0.054 in., galvanized or painted.
5. Channel Studs: 3/4 in. cold rolled steel channel, weighing 300 lbs. per 1000 lin. ft. with min. base steel of 0.054 in., galvanized or painted.
6. Floor and Ceiling Runner: L shaped runner, weighing 545 lbs. per 1000 lin. ft. with min. base steel of 0.0329 in., galvanized.

(Specifier Note: Verify cross reference below).

B. Wood Framing: See Section 06 10 00.

(Specifier Note: Verify descriptions of metal lath products with manufacturer).

C. Metal Lath:
1. Diamond Mesh Lath: Expanded metal lath with 5/16 in. wide diamonds, weighing 2.5 lbs. and 3.4 lbs. per sq. yd., galvanized or painted steel, and complying with ASTM C 847.
2. Self-Furring Lath: Expanded metal lath with 5/16 in. wide diamonds, weighing 2.5 lbs. and 3.4 lbs. per sq. yd., with self-furring dimples to hold the lath 1/4 in. away from the substrate, galvanized or painted steel, and complying with ASTM C 847.
3. Rib Lath: Expanded metal with 1/8 in. deep solid metal ribs at 1-1/2 in. o.c., weighing 2.75 lbs. and 3.4 lbs. per sq. yd., galvanized or painted steel, and complying with ASTM C 847.
4. Rib Lath: Expanded metal with opposed, U shaped, 3/8 in. deep, solid metal ribs at 1-15/16 in. o.c.; weighing 3.4 lbs. per sq. yd.; galvanized or painted steel; and complying with ASTM C 847.

D. Gypsum Lath:
1. Regular: A gypsum core lathing panel surfaced with absorptive paper on front, back, and long edges and complying with ASTM C 1396 (Kal-Kore Brand Plaster Base).

a. Thickness: 1/2 in.
b. Width: 4 ft.
c. Length: 8 ft. through 16 ft.
d. Edges: Square or Tapered.

2. Fire-Rated: A gypsum core lathing panel with additives to enhance the fire resistance of the core and surfaced with absorptive paper on front, back, and long edges and complying with ASTM C 1396, Type X.
   a. Thickness: 1/2 in. (Gold Bond BRAND Kal-Kore Fire-Shield C Plaster Base) or 5/8 in. (Gold Bond BRAND Kal-Kore Fire-Shield and Fire-Shield C Plaster Base).
   b. Width: 4 ft.
   c. Length: 8 ft. through 16 ft.
   d. Edges: Square or Tapered.
3. Regular, Foil-Backed: A gypsum core lathing panel surfaced with absorptive paper on front, back, and long edges; backed with aluminum foil; and complying with ASTM C 1396 (Gold Bond BRAND Kal-Kore Foil-Backed Plaster Base).
   a. Thickness: 1/2 in.
   b. Width: 4 ft.
   c. Length: 8 ft. through 16 ft.
   d. Edges: Square or Tapered.

E. Gypsum Plaster:
1. Base Plaster: Gypsum neat plaster complying with ASTM C 28 (Gold Bond BRAND Two-Way Hardwall Gypsum Plaster).
2. Base Plaster: Gypsum plaster with mill-mixed perlite aggregate complying with ASTM C 28 (Gold Bond BRAND Gypsolite Plaster).
3. Finish Plaster: Gypsum gauging plaster complying with ASTM C 28 (Gold Bond BRAND Super-White Gauging Plaster Quick Set and Gold Bond BRAND Super-White Gauging Plaster Slow Set).
4. Finish Plaster: Gypsum moulding plaster complying with ASTM C 59 (Gold Bond BRAND Super-White Moulding Plaster).
5. Finish Plaster: Gypsum plaster for smooth finish complying with ASTM C 587 (Kal-Kote BRAND Smooth Finish Plaster).
6. Finish Plaster: Gypsum plaster for textured finish complying with ASTM C 587 (Kal-Kote BRAND Texture Finish Plaster).
7. Finish Plaster: Gypsum plaster for smooth finish complying with ASTM C 587 (Uni-Kal BRAND Veneer Plaster).
8. Finish Plaster: Gypsum Plaster for smooth finish with extended set time complying with ASTM C 587 (X-KALibur BRAND Veneer Plaster).

F. Sand: ASTM C 35.

G. Water: Potable.

(Specifier Note: Verify descriptions of metal accessory products with manufacturer).

2.03 ACCESSORIES

A. Corner Bead: Formed steel nose with 2-1/2 in. expanded metal flanges, weighing 200 lbs. per 1000 lin. ft. with min. base steel of 0.0179 in., galvanized.

B. Corner Bead: Formed steel nose with 3/4 in. radius and 2-1/2 in. expanded metal flanges, weighing 350 lbs. per 1000 lin. ft., galvanized.

C. Corner Bead: Formed steel nose with 3-3/16 in. reinforced expanded metal flanges, weighing 241 lbs. per 1000 lin. ft.

D. Casing Bead: J shaped steel bead with expanded metal flange for 1/2 in., 5/8 in. and 3/4 in. grounds, weighing 200 lbs., 210 lbs. and 220 lbs. per 1000 lin. ft., galvanized.

(Specifier Note: Select steel above or zinc below).

D. Casing Bead: J shaped zinc bead with expanded metal flange for 1/2 in. and 3/4 in. grounds, weighing 200 lbs. and 220 lbs. per 1000 lin. ft.

E. Expansion Joints: W shaped steel joint with expanded metal flanges for 1/2 in., 3/4 in. and 7/8 in. grounds, weighing 225 lbs. and 285 lbs. per 1000 lin. ft., galvanized.

(Specifier Note: Select steel above or zinc below).

E. Expansion Joints: W shaped zinc joint with expanded metal flanges for 1/2 in., 3/4 in. and 7/8 in. grounds, weighing 225 lbs. and 285 lbs. per 1000 lin. ft.

F. Expansion Joints: W shaped steel joint with splayed expanded metal flanges for 1/2 in., 3/4 in. and 7/8 in. grounds, weighing 232 lbs. and 285 lbs. per 1000 lin. ft., galvanized.

(Specifier Note: Select steel above or zinc below).

F. Expansion Joints: W shaped zinc joint with splayed expanded metal flanges for 1/2 in., 3/4 in. and 7/8 in. grounds, weighing 232 lbs. and 285 lbs. per 1000 lin. ft., galvanized.

G. Expansion Joints: Two piece formed steel joint with slipped connection for 1/2 in., 3/4 in. and 7/8 in. grounds, galvanized.

(Specifier Note: Select steel above or zinc below).

G. Expansion Joints: Two piece formed zinc joint with slipped connection for 1/2 in., 3/4 in. and 7/8 in. grounds, galvanized.

H. Beam Furring Clip: Spring steel wire clip to fit beam flanges from 1/4 in. to 1 in. thick.

I. Tie Wire: Manufacturer's standard soft, annealed steel protected by Class 1 zinc coating and manufactured in accordance with ASTM A 641.

J. Fasteners:
   1. Nails: As recommended by the manufacturer.
   2. Screws: ASTM C 954 or ASTM C 1002 or both with heads, threads, points, and finish as recommended by the manufacturer.

2.04 MIXES

A. Proportions and Procedures: In accordance with ASTM C 842 and the manufacturer's recommendations.

PART3 EXECUTION

3.01 INSTALLATION

A. In accordance with the following ASTM Standards and manufacturer's recommendations:
   1. ASTM Standards:
      a. Metal Lath, Gypsum Lath, and Accessories: C 841.
      b. Gypsum Plaster: C 842.

(Specifier Note: If other manufacturers were added in Part 2, then reference their installation recommendations below by title).

   1. Manufacturer's Recommendations:
      a. “Gypsum Construction Guide” 102171 and “Plaster Resource Manual,” 110753; National Gypsum Company.
      b.

C. Tolerances: For flatness of surface, do not exceed 1/4 in. in 8 ft. for bow or warp of surface and for plumb and level.

3.02 CLEANING

A. Remove plaster and protective materials from accessories and from adjacent surfaces.

END OF SECTION