

GYPSON WALLBOARD SYSTEM

PART I - PRODUCTS:

- 1.1 Provide gypsum wall board complying with Fed spec SG-L-300, in 48" widths and in such lengths as will result in a minimum of joints.
A. Fire-retardant wallboard: Provide type 111, grade X, class 1, 5/8" thick.
B. Moisture/water-resistant (M.R.) wallboard: Provide Type VII, grade W or X as required. Class 2, 5/8" thick except as may be shown otherwise on drawings. (Provide throughout in all toilet and janitor rooms and at coffee bars. Provide ceiling trims at 12" O.C. for MR board)

PART II - SUPPORT SYSTEM:

- 2.1 Provide non-bearing steel and stud system complying with pertinent requirements of governmental agencies having jurisdiction.

PART III - METAL TRIM

- 3.1 Form from zinc-coated steel not lighter than 26 gage, complying with fed spec QQ-S-775, type 1, Class D or E.
3.2 Casing beads: provide channel-shapes with an exposed wing, and with a concealed wing not less than 7/8" wide. Exposed wing may be covered with paper cemented to metal, but shall be suitable for joint treatment.
3.3 Corner beads, provide angle shapes with wings not less than 7/8" wide and perforated for nailing and joint treatment, or with combination metal and paper wings bonded together, not less than 1-1/4" wide and suitable for joint treatment.
3.4 Edge beads for use at perimeter of ceilings:
A. Provide angle shapes with wings not less than 3/4" wide.
B. Provide concealed wings perforated for nailing, and exposed wing edge folded flat.
C. Exposed wing may be factory finished in white color.

PART IV - JOINTING SYSTEM

- 4.1 Provide a jointing system, including reinforcing tape and compound, designed as a system to be used together and as recommended for this use by manufacturer of gypsum wallboard approved for use on work.
4.2 Jointing compound may be used for finishing if so recommended by its manufacturer.

PART V - FASTENING DEVICES

- 5.1 For fastening gypsum wallboard in place on metal studs and metal channels, use flat head screws, shouldered, specially designed for use with power-driven tools, not less than 1" long, with self-tapping threads and self-drilling points.
5.2 For fastening Gypsum wallboard in place on wood, use 1-1/4" type W bugle head screws, or use annular ring type nails complying with ASTM C314 and of length required by governmental agencies having jurisdiction.

PART VI - EXECUTION:

- 6.1 Except as otherwise approved in advance by architect, install and finish work of this section in strict accordance with recommendations contained in 'Gypsum Construction Handbook' published by United States Gypsum Company.
6.2 Access doors: by careful coordination with drawings and with trades involved, install access doors where required and as provided under other sections of the specifications. Anchor firmly into position, and align properly to achieve an installation flush with finished surface.

PART VII - OTHER METAL TRIMS

- 7.1 Drawings do not purport to show all locations and requirements for metal trim.
7.2 Carefully study drawings an installation, and provide all metal trim normally recommended by manufacturer of Gypsum wallboard approved for use in this work.
7.3 Caulk between metal edge trim and dissimilar material.

PART VIII - CLEAN-UP

- 8.1 In addition to other requirements for cleaning, use necessary care to prevent scattering Gypsum wallboard scraps and dust, and to prevent tracking Gypsum and joint finishing compound onto floor surfaces.
8.2 At completion of each segment of installation in a room or space, promptly pick up and remove from working area all scrap, debris, and surplus material of this section.

PAINTING

- 1.1 Scope: The contractor shall prepare surfaces, furnish all paint, material, labor and equipment required for the painting of all surfaces as required by the drawings and specified herein, except for work specifically excluded.
A. Exceptions: Not included in this section: Shop priming, factory furnished equipment and acoustic ceilings, chromium plate, nickel, stainless steel, anodized aluminum factory applied finishes.

- B. The Painting contractor is responsible for inspecting the work of others prior to the application of paint or finishing materials. If any surface to be finished cannot be put in proper condition for finishing y customary cleaning, sanding, and puttying operations, the Painting Contractor shall immediately notify the General Contractor or the Owner in writing, and shall not proceed with this work until conditions have been corrected and are acceptable.

- 1.2 Regulatory Requirements: All materials must comply with Air Pollution Control Regulations, such as L.A. County APCD Rule 66, Bay Area PCO Reg. 3, etc., and Federal Lead Content requirements.

1.3 Color and Material Submittals:

- A. Color Schedule to be furnished by Owner, U.N.O.
B. Color samples shall be submitted to Handley Engineering and to the Owner for approval, prior to application.
1.4 Product Handling:
A. Deliver materials in manufacturers original, sealed containers with labels and other markings intact. Store paint, materials, and equipment in designated areas. Areas to be kept clean, neat and locked.
B. Fire Prevention: Take every precaution. At the end of each day, remove oily rags and combustible materials from the premises, or store in metal containers with light covers.

- 1.5 Protection: The Contractor shall protect his own work, and also adjacent work and materials, with suitable coverings.

- 1.6 Cleaning: Upon completion of the work, the Painting Contractor shall clean up the area of his activity and remove all extra materials from the job site.

1.7 Workmanship:

- A. All work shall be done by experienced, skilled craftsmen. Surface preparation shall be in accordance with standards of the Painting and Decorating Contractors of America.
B. Hot Spots in plaster or concrete that show after the first coat, must be touched up before applying the second coat. Minor imperfections in gypsum drywall and wood surfaces shall be repaired and sanded smooth.
C. Use materials only in accordance with the manufacturers directions.
D. Surfaces shall be free of oil, grease, loose paint, or other foreign matter. Marred shop-primed units shall be touched up with the proper primer.
E. Galvanized metal shall be solvent cleaned, pretreated with vinyl wash, or etched with acid, before painting.
F. Plaster surfaces shall be proven dry by using a standard moisture meter. Moisture not to exceed 15%.
G. All finishes shall be applied evenly and be free from runs, sags, skips, crawls, or other defects.
H. Painting shall not be done during extremely hot weather, or when the temperature is below 50 degrees F.
I. Protect work, adjacent work, and materials at all times by suitable covering. Upon completion of the work, remove all paint and varnish spots from floors, glass, and other surfaces.

- 1.8 All interior and exterior point shall be manufactured by "Fruzeel" paint or approved equal. Provide 2-coats of paint for all surfaces to be painted, except Warehouse and Printing Area need only receive 1 coat to cover.

LATH & PLASTER

PART 1 - GENERAL

1.1 SUMMARY

Section Includes: Lath and cement plaster for soffits.

1.2 REFERENCES

- A. ASTM:
1. A 924-94 - Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
2. C 144-93 - Specification for Aggregate for Masonry Mortar.
3. C 150-92 - Specification for Portland Cement.
4. C 206-84(1992) - Specification for finishing Hydrated Lime.
5. C 494-90 - Specification for Chemical Admixtures for Concrete.
6. C 631-91 - Specification for Bonding Compounds for Interior Plastering.
7. C 932-80(1990) - Specification for Surface-Applied Bonding Agents for Exterior Plastering.
B. Metal Lath/Steel Framing Association (MLSFA):
1. MLSFA Specifications for Metal Lathing and Furring.
C. Stucco Manufacturers Association (SMA):
1. SMA Specifications and Standards for Manufactured Stucco Finishes.
D. Western Lath/Plaster/Drywall Industries Association (WLPDIA):
1. Plaster and Drywall Systems Manual, latest edition.
2. Reference Specifications.
E. California Building Code, 2010 Edition.

1.3 SUBMITTALS

- A. Product Data: Submit complete manufacturer's descriptive literature and specifications.
B. Samples: Submit samples of integrally-colored finish stucco coat for review and acceptance.
A. Regulatory Requirements: Comply with ICC ES Active Evaluation Report for building paper proposed for use.

PART 2 - PRODUCTS

2.1 REFERENCED MANUFACTURERS

- A. Design is based on the use of products manufactured by the following, or equal:
1. Bostik Construction Products, Huntington Valley, PA (215)674-5600, with facilities in Long Beach, CA (310)437-7218.
2. Fortifiber Corporation, Los Angeles, CA (213)268-6783.
3. Fry Reglet Corporation, Alhambra, CA (818)289-4744.
4. Keene Corporation, Metal Products Division, Parkersburg, WV (304)295-4581, (800)624-2686, with sales offices in Upland, CA (714)982-0248.
5. Kel-Crete Industries, Tulsa, OK (918)622-4530, (800)845-1833, represented by Omega Products, (714)556-3830.
6. Larsen Products Corporation, Rockville, MD (800)633-6668, represented by Frontier Building Supply, Los Angeles, CA (818)765-3665.
7. ProSoCo, Inc., Kansas City, KS (913)281-2700.
8. RainGuard Products Company, Inglewood, CA (310)671-9100, (800)372-4647 (inside California).
9. Sonneborn Building Products, Minneapolis, MN (612)835-3434 and Hayward, CA (415)809-9899.
10. Superior Metal Trim, Delta Star, Inc., Belmont, CA (415)591-4461, (800)892-8673.
11. Tree Island Steel, Inc., Monrovia, CA (818)357-5057.
12. United States Gypsum Company (USG), a subsidiary of USG Corporation, Chicago IL, with sales offices in Glendale, CA (818)956-1882.
13. Ven-Chem Company, Inc., Santa Barbara, CA (805)967-7600, (818)342-1195.
14. W.R.Meadows, Inc., Elgin, IL (312)683-4500, and Bencio, CA (707)745-6866.

- B. Like materials shall be the products of one manufacturer and shall be either the ones upon which the design is based or equal products of other manufacturers accepted in advance.

2.2 MATERIALS

A. Lathing Materials:

- 1. Metal Lath:
a. Vertical: 17 gauge Self Furred Wire Lath or equal
Horizontal: 3.4 Rib Lath or equal.
2. Fasteners:
a. Wood Studs: No. 12 gage cap nail. Provide furring nails and staples as required.
b. Metal Studs or Resilient Channels: 1-inch No. 6 flat head self-drilling self-tapping galvanized screw.
3. Weatherproof Barrier: Building paper conforming to FS UU-B-790a, Type 1 (No. 15), Grade B (moderate water vapor resistance), Style 4 (uncreped, unreinforced), as manufactured by Fortifiber Corporation, or equal.
4. Tie and String Wire: 18 gage, galvanized.

B. Plastering Materials:

- 1. Portland Cement: ASTM C 150, Type 1.
2. Aggregates: ASTM C 144, clean and well graded sand in conformance with WLPDIA Manual.
3. Special Finishing Hydrated Lime: ASTM C 206, Type S.
4. Fiber Filler:
a. One-half inch long type AR (alkali-resistant) Chopped fiberglass strands.
b. 15 denier polypropylene fibers.
5. Admixture (Alternative to Lime and Fiber Filler): Kel-Crete Admixture, manufactured by Kel-Crete industries, or equal.
6. Mortar Additive: Hydromont Multi-Purpose Acrylic Latex Additive high solids latex emulsion, as manufactured by Bostic Construction Products, or equal.
7. Water: Potable.
8. Finish Coat: Factory prepared stucco finish coat complying with general requirements of SMA Specifications and Standards.

C. Lath Accessories:

- 1. Galvanized Steel Accessories: Fabricate from galvanized steel, of the gages or weights indicated and complying with ASTM A 924, coating designation G90, and with recommendations of WLPDIA Reference Specifications. Provide metal shapes used as grounds in sizes required for plaster thickness.
a. Corner Beads: WLPDIA Detail 13-A small nose corner bead with 2-1/2-inch wide expanded metal flanges, 26 gage.
b. Casing Beads: WLPDIA Detail 14-A square casing bead, with expanded metal flange, 24 gage.
c. Cornerite: WLPDIA Detail 20-A expanded metal cornerite, weighing 2.5 pounds per square yard, bent in center to form 100-degree angle, 6 inches wide.
d. Strip Lath: WLPDIA Detail 21-A strip expanded metal reinforcement weighing 2.5 pounds per square yard, 6 inches wide.
2. Vent Screenshot: Superior No.115 with venting slots. Provide sizes indicated on the Contract Drawings.
3. Fasteners for Metal Lath and Accessories: Nails, staples, or screws of types and sizes required by UBC Table 25-C. Use manufacturer's standard clips and other attachment items for positioning and securing lath.
D. Bonding Compound: Design is based on the use of Plaster-Weld, manufactured by Larsen Products Corporation.
1. Provide a liquid bonding compound conforming to the requirements of ASTM C 631 and specifically formulated for binding new plaster to concrete.

2.3 MIXES

- A. General: Mix factory-prepared cement plaster base coats in accordance with manufacturer's instructions using one of the following admixtures:
1. Add 3 ounces of Kel-Crete Admixure per 100 pounds portland cement in place of lime.
2. Mix filler in accordance with fiber filler manufacturer's instructions, using one of the following:
a. Polypropylene fiber at the rate of 1 pound per 1000 pounds of dry mortar mix.
b. Chopped fiberglass fiber filler at the rate of 2 pounds per sack of portland cement.
3. Add mortar additive at the rate of 1 part additive to 3 parts water in accordance with manufacturer's recommendations.
B. Proportions: Conform to recommendations of the WLPDIA Manual for first and second coats. Mix plaster proportions in accordance with CBC.
1. Base Coats:
a. One part portland cement.
b. One-twelfth part lime and fiber filler, or 3 ounces admixture.
c. Two to four parts sand.
d. At smooth trowel finish, add 1 part acrylic mortar additive to 3 parts water.
2. Finish Coat:
a. Exterior: Proportion smooth, machine dash finish, integrally colored manufactured portland cement finish. Add 2 ounces additive per sack.

PART 3 - EXECUTION

3.1 LATHING

A. Application of Weatherproof Barriers:

- 1. Apply weatherproof barrier at exterior vertical surfaces with the long dimensions running horizontally. Lap joints at least 4 inches and lap upper courses over lower courses. Lap ends at supports. Secure at intervals not exceeding 6 inches on centers vertically along each framing member.
2. Apply waterproof membrane over horizontal surfaces including parapet and window sills. Extend membrane a minimum of 4 inches down over adjacent vertical surfaces. Prepare substrate and install membrane in accordance with the membrane manufacturer's recommendations.

B. Application of Metal Lath:

- 1. General: Install lath only after weatherproof barriers have been completed and accepted. (Weatherproof barriers factory-attached to metal lath are not acceptable). Install metal lath with true even surfaces without sags or buckles.
a. Conform to the recommendations of the WLPDIA Reference Specifications.
2. Metal Lath: Apply metal lath with long dimension at right angles to supports, shingle fashion. Stagger ends of lath to avoid continuous joint on same support. Lap lath at sides not less than 1/2-inch and not less than 1 inch at ends. Lap all ends at supports. Butt lath into internal angles and reinforce angle with cornerite, or extend lath around corners to nearest support.
a. Furr out from the supports not less than 1/4-inch except where flange width of metal supports is less than 1 inch.
3. Secure lath to supports at intervals not exceeding 6 inches on centers using nails or staples for wood framing or furring. Tie long edges between supports with wire at intervals not exceeding 9 inches on centers. Twist ends of tie wire and bend up in plane of lath.
4. Apply metal lath over concrete block to be plastered which does not have coarse surface texture using powder driven fasteners of type and size recommended by the fastener manufacturer for the type and thickness of concrete or masonry.
5. Do not install lath continuous behind expansion or control joints.

C. Installation of Lathing Accessories: Set plumb, level, and true to line. Shim where necessary. Miter at corners. Accurately and tightly fit exposed joints. Install sections in as long a length as practicable. Fasten by wiring at not more than 12 inches on centers. Secure cornerites at 6-inch intervals at edges only (not at corners).

- 1. Corner Beads: Install for full length of outside corners.
2. Casing Beads: Install for all free edges, wherever plaster abuts against other material, and elsewhere as indicated.
3. Cornerite Reinforcements: Install at inside corners, except where lath is carried around corners.
4. Strip Lath: Reinforce corners of openings with 9-inch by 24-inch strips of metal lath, tied to reinforcement.
E. Protect expansion screeds and vent screeds with non-staining tape or other suitable protective material.
F. Pay particular attention to the alignment of grounds forming plaster details. Provide plaster details which are straight and true and uniformly formed.

3.2 APPLICATION

A. Application of Plaster:

- 1. Apply scratch coat in a full 3/8-inch coat with sufficient material to form good keys on metal lath. Embed and fill all spaces of lath and score horizontally. Keep moist for 48 hours before brown coat is applied.
2. Apply brown coat over the dampened scratch coat in a full 3/8-inch thick coat. Cold joint in brown coat shall not occur over cold joints in scratch coat. Bring brown coat out to grounds, straighten surface and provide a flat, true, smooth finish using a wood trowel.
3. Finish brown coat shall be level to within 1/8-inch in 8 feet.

3.3 FINISH COAT

- A. Exterior:
1. Texture Finish: Smooth sand float texture or as noted on exterior elevations.
2. Paint stucco surface if required to achieve uniform color.

3.4 CURING

- A. Scratch coat: Keep moist 48 hours where lime is used, and 24 hours if Kel-Crete Admixture is used.
B. Brown coat: Cure at least 7 days. Keep moist 48 hours.

3.5 CLEANING

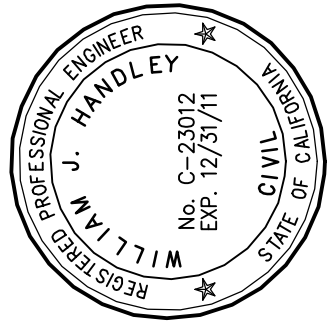
- A. Remove plaster and protective materials from adjacent surfaces. Cut out and patch defective plaster.
B. Completely clean control expansion joint slots of adhered plaster materials.

3.6 SEALING

- A. Seal stucco surfaces adjacent to landscaped plant areas to a height of approximately 6 feet.
1. Apply one coat of specified sealer in accordance with manufacturer's instruction.

NO.	REVISION	BY	DATE

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NEW PROFESSIONAL OFFICE FOR:
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DATE:	11/28/11
JOB NO:	11-23
DRAWN:	WJH
CHECKED:	WJH
SCALE:	NONE
SHEET	A-9.2
OF SHEETS	