

SECTION 09 21 16  
GYPSUM BOARD ASSEMBLIES

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Gypsum board and joint treatment products
- B. Mold and Mildew-resistant gypsum board products
- C. Fire-rated gypsum area separation walls
- D. Gypsum shaft liner
- E. Abuse-resistant gypsum board
- F. Mold-resistant gypsum board
- G. Sound dampening area separation walls
- H. Gypsum soffit board
- I. Gypsum sheathing board
- J. Accessories for the installation and trimming of gypsum board partitions and ceilings

1.2 RELATED SECTIONS

- A. Section 05 40 00 - Cold-Formed Metal Framing
- B. Section 06 10 00 - Rough Carpentry
- C. Section 06 11 00 - Wood Framing
- D. Section 06 16 36 - Wood Panel Product Sheathing
- E. Section 07 21 16 - Blanket Insulation
- F. Section 08 31 16 - Access Panels and Frames
- G. Section 09 20 00 - Plaster and Gypsum Board
- H. Section 09 21 16.23 - Gypsum Board Shaft Wall Assemblies

1.3 REFERENCES

- A. ASTM C 36 - Standard Specification for Gypsum Wallboard
- B. ASTM C 79 - Standard Specification for Gypsum Sheathing Board
- C. ASTM C 442 - Standard Specification for Gypsum Backing Board, Gypsum Coreboard and

## Gypsum Shaftliner Board

- D. ASTM C 475 - Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board
- E. ASTM C 514 - Standard Specification for Nails for the Application of Gypsum Board
- F. ASTM C 588 - Specification for Gypsum Base for Veneer Plasters
- G. ASTM C 630 - Standard Specification for Water-Resistant Gypsum Backing Board
- H. ASTM C 665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing
- I. ASTM C 754 - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products
- J. ASTM C 840 - Standard Specification for Application and Finishing of Gypsum Board
- K. ASTM C 931 - Standard Specification for Exterior Gypsum Soffit Board
- L. ASTM C 954 - Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs From 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness
- M. ASTM C 1002 - Standard Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs
- N. ASTM C 1047 - Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base
- O. ASTM C 1280 - Standard Specification for Application of Gypsum Sheathing
- P. ASTM C 1395 - Specification for Gypsum Ceiling Board
- Q. ASTM C 1396 - Standard Specification for Gypsum Board
- R. ASTM C 1658 - Standard Specification for Glass Mat Gypsum Panels
- S. ASTM D 3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
- T. ASTM E 90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- U. ASTM E 119 - Standard Test Methods for Fire Tests of Building Construction and Materials
- V. ASTM E 413 - Classification for Rating Sound Insulation
- W. ASTM E 492 - Standard Test Method for Laboratory Measurement of Impact Sound Transmission through Floor-Ceiling Assemblies Using the Tapping Machine
- X. ASTM E 989 - Classification for Determination of Impact Insulation Class (IIC)
- Y. CAN/ULC-S101 - Standard Methods of Fire Endurance Tests of Building Construction and Materials
- Z. GA-214 - Recommended Levels of Gypsum Board Finish; Gypsum Association

- AA. GA-216 - Application and Finishing of Gypsum Board; Gypsum Association
- BB. GA-231 - Assessing Water damage to Gypsum Board; Gypsum Association
- CC. GA-238 - Guidelines for the Prevention of Mold Growth on Gypsum Board; Gypsum Association
- DD. GA-253 - Recommended Specifications for the Application of Gypsum Sheathing; Gypsum Association
- EE. GA-600 - Fire Resistance Design Manual; Gypsum Association
- FF. GA-801 - Handling and Storage of Gypsum Panel Product; Gypsum Association
- GG. ITS (Dir) - Directory of Listed Products; Intertek Testing Services; current edition
- HH. UL 263 - Standard for Fire Tests of Building Construction and Materials
- II. UL (FRD) - Fire Resistance Directory; Underwriters Laboratories Inc.
- JJ. ULC (FRD) - Fire Resistance Directory; Underwriters' Laboratories of Canada

#### 1.4 PERFORMANCE REQUIREMENTS

- A. Fire-Rated Assemblies: Provide materials and construction identical to those tested in fire-endurance rated assemblies by an independent testing agency acceptable to the authorities having jurisdiction.
  - 1. Test Method: ASTM E 119 or UL 263
  - 2. Test Method: CAN/ULC-S101M
  - 3. Ratings: As indicated on the drawings; designations listed are from:
    - a. Gypsum Association GA-600, Fire Resistance Design Manual
    - b. UL Fire Resistance Directory
    - c. ULC Fire Resistance Directory
    - d. ITS Directory of Listed Products
- B. Sound-Rated Assemblies: Provide materials and construction identical to those tested in STC/IIC-rated assemblies by an independent testing agency.
  - 1. Test Method: ASTM E 90/E 492 and classified according to ASTM E 413/E 989
  - 2. STC Ratings: As indicated on the drawings; designations listed are from Gypsum Association GA-600, Fire Resistance Design Manual

#### 1.5 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations
  - 2. Storage and handling requirements and recommendations
  - 3. Installation methods
- C. Shop Drawings: Indicate special details associated with fireproofing, acoustic seals, or curved sheet installations.
- D. LEED Submittals: Provide documentation of how the requirements of Credit will be met:
  - 1. Product Data for Credit MR 2.1 and 2.2: For products being recycled, documentation of total weight of project waste diverted from landfill.
  - 2. Product Data for Credit MR 4.1 and MR 4.2: For products having recycled content, documentation including percentages by weight of post consumer and pre-consumer

recycled content.

- a. Include statement indicating costs for each product having recycled content.
3. Product Data for Credit IEQ 4.1: For adhesives used to laminate gypsum board panels to substrates, including printed statement of VOC content.
4. Product Data for Credit IAQ 4.6 (Schools): For products used in school construction, including certification meeting CHPS Low-Emitting Material criteria Section 01 35 00 - Special Procedures.
5. Product Data for Credit MR 5.1 and Credit MR 5.2: Submit data, including location and distance from Project of material manufacturer and point of extraction, harvest or recovery for main raw material.
  - a. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.
- E. Maintenance Data: Manufacturer's recommendations for cleaning each type of product specified.
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

## 1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Installer: Company specializing in performing Work of this section with minimum three years.
- B. Mock-Up: Provide a mock-up of the area indicated on the Drawings for evaluation of surface preparation techniques and application workmanship.
  1. Locate finish areas designated by Architect.
  2. Do not proceed with remaining work until workmanship and finish is approved by Architect.
  3. Refinish mock-up area as required to produce acceptable work.

## 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store gypsum board in accordance with GA-801.
- B. Ship materials with a weathertight cover and in manufacturer's original packages showing manufacturer's name and product brand name.
- C. Remove plastic shipping bags upon receipt and storage. Failure to remove may increase the likelihood of mold growth.
- D. Store materials inside and protected from damage by weather and direct sunlight. Stack flat; protect ends, edges, and faces of gypsum boards from damage. Protect steel studs and metal accessories from moisture.

## 1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- B. Do not install interior products until installation areas are enclosed and conditioned.
- C. Do not install panels that are wet, those that are moisture damaged, and those that are mold damaged.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Substitutions: Not permitted.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

## 2.2 GYPSUM PRODUCTS, GENERAL

- A. Size: Provide maximum lengths and widths available that will minimize joints in each area that correspond with the support system indicated.
- B. Regional Materials: Provide a minimum 20 percent of building materials (by cost) that are regionally, extracted, processed and manufactured within a radius of 500 miles from Project.
- C. Synthetic Gypsum: In compliance with LEED requirements, the following manufacturing plant locations are actively manufacturing with synthetic gypsum:
  - 1. Continental Building Products: 91-99 percent recycled content (by weight) is available from the following plants:
    - a. Palatka, FL 32177
    - b. Silver Grove, KY 41085
    - c. Buchanan, NY 10511
- D. Jobsite Waste Recycle: Conform with waste management requirements specified in Section 01 74 16 - Site Maintenance. In compliance with LEED requirements, the following manufacturing plant locations are actively providing jobsite gypsum board waste recycle:
  - 1. Continental Building Products: Synthetic Gypsum Board jobsite waste recycle from new construction is available from the following plants:
    - a. Palatka, FL 32177
  - 2. Jobsite Waste Recycle: Divert 50 percent of project waste (by weight) from landfill
- E. Recycled Content: Provide gypsum panel products with recycled content such that post consumer recycled content plus one-half of pre-consumer recycled content constitutes a minimum 50 percent by weight.

## 2.3 INTERIOR GYPSUM MATERIALS

- A. Regular Gypsum Board: Gypsum core panel surfaced with paper on front and back edges and complying with ASTM C 1396 and ASTM C 36.
  - 1. Acceptable Product: Continental Building Products LiftLite or Regular Drywall
  - 2. Thickness: 1/2 inch (12.7 mm), unless otherwise indicated
    - a. Use 1/4 inch (6.4 mm) thickness at \_\_\_\_\_
    - b. Use 3/8 inch (9.5 mm) thickness at \_\_\_\_\_
  - 3. Width: 48 inches (1219 mm)
  - 4. Width: 54 inches (1372 mm)
  - 5. Length: Use longest length available, avoiding unnecessary joints
  - 6. Edges:
    - a. Use square edges at \_\_\_\_\_
    - b. Use rounded tapered edges at \_\_\_\_\_
    - c. Use tapered edges at \_\_\_\_\_
- B. Regular Mold-Resistant Gypsum Board: Gypsum core panel enhanced with moisture-resistant wax emulsion and chemically treated to resist mold and mildew in the core and surfaced with mold and mildew-resistant paper on front, back and long edges and complying with ASTM C 1396 Section 7 and ASTM C 630.
  - 1. Acceptable Product: Continental Building Products Mold Defense Drywall
  - 2. Thickness: 1/2 inch (12.7 mm), unless otherwise indicated
    - a. Use 1/4 inch (6.4 mm) thickness at \_\_\_\_\_
    - b. Use 3/8 inch (9.5 mm) thickness at \_\_\_\_\_

3. Width: 48 inches (1219 mm)
  4. Width: 54 inches (1372 mm)
  5. Length: Use longest length available, avoiding unnecessary joints
  6. Edges:
    - a. Use square edges at \_\_\_\_\_
    - b. Use rounded tapered edges at \_\_\_\_\_
    - c. Use tapered edges at \_\_\_\_\_
  7. Mold and Mildew Resistance: Panel score of 10 when tested in accordance with ASTM D 3273.
- C. Glass Mat Faced Mold-Resistant Gypsum Board: Gypsum core panel enhanced with moisture-resistant wax emulsion and chemically treated to resist mold and mildew in the core and surfaced with mold- and mildew-resistant glass mat on front, back and long edges and complying with ASTM C 1658 Section 7.
1. Acceptable Product: Continental Building Products Weather Defense Platinum Interior Drywall
  2. Thickness: 1/2 inch (12.7 mm), unless otherwise indicated
    - a. Use 1/4 inch (6.4 mm) thickness at \_\_\_\_\_
    - b. Use 3/8 inch (9.5 mm) thickness at \_\_\_\_\_
  3. Width: 48 inches (1219 mm)
  4. Width: 54 inches (1372 mm)
  5. Length: Use longest length available, avoiding unnecessary joints
  6. Edges:
    - a. Use square edges at \_\_\_\_\_
    - b. Use rounded tapered edges at \_\_\_\_\_
    - c. Use tapered edges at \_\_\_\_\_
    - d. Mold and Mildew Resistance: Panel score of 10 when tested in accordance with ASTM D 3273.
- D. Fire-Rated Gypsum Board: Gypsum core panel with glass fibers to enhance fire resistance of the core; surfaced with ivory-colored paper on front and strong liner paper on back; and complying with ASTM C 1396 Section 5 and ASTM C 36, Type X.
1. Acceptable Product: Continental Building Products Firecheck Type X Drywall
  2. Thickness: 5/8 inch (15.9 mm)
  3. Width: 48 inches (1219 mm)
  4. Width: 54 inches (1372 mm)
  5. Length: Use longest length available, avoiding unnecessary joints
  6. Edges:
    - a. Use square edges at \_\_\_\_\_
    - b. Use tapered edges at \_\_\_\_\_
    - c. Use rounded tapered edges at \_\_\_\_\_
    - d. Use beveled edges at \_\_\_\_\_
- E. Fire-Rated Gypsum Board: Gypsum core panel with glass fibers to enhance fire resistance of the core; surfaced with ivory-colored paper on front and strong liner paper on back; and complying with ASTM C 1396 Section 5 and ASTM C 36, Type X, "Premium".
1. Acceptable Product: Continental Building Products Firecheck Type C Drywall
  2. Thickness: 1/2 inch (12.7 mm), unless otherwise indicated
  3. Thickness: 5/8 inch (15.9 mm), unless otherwise indicated
  4. Width: 48 inches (1219 mm)
  5. Length: Use longest length available, avoiding unnecessary joints
  6. Edges:
    - a. Use square edges at \_\_\_\_\_
    - b. Use tapered edges at \_\_\_\_\_
    - c. Use rounded tapered edges at \_\_\_\_\_
    - d. Use beveled edges at \_\_\_\_\_

- F. Fire-Rated Mold-Resistant Gypsum Board: Gypsum core panel with glass fibers to enhance fire resistance of the core; core also enhanced with moisture-resistant wax emulsion and chemically treated to resist mold and mildew; surfaced with a mold and mildew-resistant paper on the front, back and long edges; and complying with ASTM C 1396 Section 7 and ASTM C630, Type X.
1. Acceptable Product: Continental Building Products Mold Defense Type X
  2. Thickness: 5/8 inch (15.9 mm)
  3. Width: 48 inches (1219 mm)
  4. Width: 54 inches (1372 mm)
  5. Length: Use the longest length available, avoiding unnecessary joints
  6. Edges:
    - a. Use square edges at \_\_\_\_\_
    - b. Use tapered edges at \_\_\_\_\_
    - c. Use rounded tapered edges at \_\_\_\_\_
    - d. Use beveled edges at \_\_\_\_\_
  7. Mold and Mildew Resistance: Panel score of 10 when tested in accordance with ASTM D 3273
- G. Glass Mat Faced Fire-Rated Mold-Resistant Gypsum Board: Gypsum core panel with glass fibers to enhance fire resistance of the core; core also enhanced with moisture-resistant wax emulsion and chemically treated to resist mold and mildew; surfaced with a mold and mildew-resistant glass mat on the front, back and long edges; and complying with ASTM C 1658 Section 7, Type X.
1. Acceptable Product: Continental Building Products Weather Defense Platinum Interior Type X
  2. Thickness: 5/8 inch (15.9 mm)
  3. Width: 48 inches (1219 mm)
  4. Width: 54 inches (1372 mm)
  5. Length: Use the longest length available, avoiding unnecessary joints
  6. Edges:
    - a. Use square edges at \_\_\_\_\_
    - b. Use tapered edges at \_\_\_\_\_
    - c. Use rounded tapered edges at \_\_\_\_\_
    - d. Use beveled edges at \_\_\_\_\_
  7. Mold and Mildew Resistance: Panel score of 10 when tested in accordance with ASTM D 3273
- H. Shaftliner Gypsum Board: Gypsum core shaftwall panel with glass fibers to enhance fire resistance of core; surfaced with green water repellant paper on front and back; and complying with ASTM C 1396 Section 6, Type X, ASTM C 442.
1. Acceptable Product: Continental Building Products Shaftliner Type X Drywall
  2. Thickness: 1 inch (25.0 mm)
  3. Width: 24 inches (610 mm)
  4. Length: Use longest length available, avoiding unnecessary joints
  5. Edges: Double Beveled
- I. Shaftliner Gypsum Board Mold-Resistant: Gypsum core shaftwall panel with glass fibers to enhance fire resistance of core, and chemically treated to resist mold and mildew in the core; surfaced with green water repellent; chemically treated to resist mold and mildew on the surface on front and back; complying with ASTM C 1396 Section 6, Type X, ASTM C 442.
1. Acceptable Product: Continental Building Products Mold Defense Shaftliner Type X Drywall
  2. Thickness: 1 inch (25.0 mm)
  3. Width: 24 inches (610 mm)
  4. Length: Use longest length available, avoiding unnecessary joints
  5. Edges: Double Beveled

6. Mold and Mildew Resistance: Panel score of 10 when tested in accordance with ASTM D 3273
- J. Glass Mat Faced Shaftliner Gypsum Board Mold-Resistant: Gypsum core shaftwall panel with glass fibers to enhance fire resistance of core, and chemically treated to resist mold and mildew in the core; surfaced with glass mat water repellent; chemically treated to resist mold and mildew on the surface front and back; complying with ASTM C 1658 Section 6, Type X.
1. Acceptable Product: Continental Building Products Weather Defense Platinum Shaftliner Type X Drywall
  2. Thickness: 1 inch (25.0 mm)
  3. Width: 24 inches (610 mm)
  4. Length: Use longest length available, avoiding unnecessary joints
  5. Edges: Double Beveled
  6. Mold and Mildew Resistance: Panel score of 10 when tested in accordance with ASTM D 3273
- K. Abuse-Resistant and Mold-Resistant Gypsum Board: Gypsum abuse-resistant drywall panel enhanced with glass fibers and a high-density gypsum core; surfaced on the front, back and long edges with reinforced mold and mildew-resistant, heavy facing paper; and complying with ASTM C 1396 Section 5 and ASTM C 36, Type X.
1. Acceptable Product: Continental Building Products Protecta AR 100 with Mold Defense Drywall
  2. Thickness: 5/8 inch (15.9 mm)
  3. Width: 48 inches (1219 mm)
  4. Length: Use longest length available, avoiding unnecessary joints
  5. Edges: Tapered
  6. Abuse Resistance per ASTM C 1629: Soft Body Impact - Level 2, Surface Abrasion - Level 3, Surface Indentation - Level 1, Hard Body Impact - Level 1
  7. Mold and Mildew Resistance: Panel score of 10 when tested in accordance with ASTM D 3273
- L. Impact-Resistant and Mold-Resistant Gypsum Board: Gypsum impact-resistant drywall panel enhanced with glass fibers and a high-density gypsum core; surfaced on the front, back and long edges with reinforced mold and mildew-resistant, heavy facing paper; and complying with ASTM C 1396 Section 5 and ASTM C 36, Type X.
1. Acceptable Product: Continental Building Products Protecta HIR 300 with Mold Defense Drywall
  2. Thickness: 5/8 inch (15.9 mm)
  3. Width: 48 inches (1219 mm)
  4. Length: Use longest length available, avoiding unnecessary joints
  5. Edges: Tapered
  6. Abuse Resistance per ASTM C 1629: Soft Body Impact - Level 3, Surface Abrasion - Level 3, Surface Indentation - Level 1, Hard Body Impact - Level 3
  7. Mold and Mildew Resistance: Panel score of 10 when tested in accordance with ASTM D 3273
- M. Sag-Resistant Gypsum Board for Ceilings: Gypsum core panel with glass fibers, surfaced with ivory-colored face paper and gray backing paper; and complying with ASTM 1396, ASTM C 1395 Section 12 and ASTM C 36.
1. Acceptable Product: Continental Building Products Sagcheck Drywall
  2. Thickness: 1/2 inch (12.7 mm)
  3. Width: 48 inches (1219 mm)
  4. Length: Use longest length available, avoiding unnecessary joints
  5. Edges: Tapered
- N. Level Five Skim-Coat Gypsum Board: Gypsum core panel for Level Five applications; surfaced with factory applied skim-coat on face layer and gray backing paper; and complying



with ASTM C 1396 Section 5, ASTM C 36 and ASTM C 840.

1. Acceptable Product: Continental Building Products Rapid Deco L5 Level Five Drywall
  2. Thickness: 1/2 inch (12.7 mm)
  3. Width: 48 inches (1219 mm)
  4. Length: Use longest length available, avoiding unnecessary joints
  5. Edges: Tapered
  6. Accessory Material: Provide Rapid Deco Joint Compound as recommended by Manufacturer
- O. Fire-Rated Level Five Gypsum Board: Gypsum core panel for Level Five applications; with glass fibers to enhance fire resistance of the core; surfaced with factory applied skim-coat on face layer and gray backing paper, and complying with ASTM 1396 Section 5, ASTM C 36 and ASTM C 840, Type X.
1. Acceptable Product: Continental Building Products Rapid Deco L5 Level Five Type X Drywall
  2. Thickness: 5/8 inch (15.9 mm)
  3. Width: 48 inches (1219 mm)
  4. Length: Use longest length available, avoiding unnecessary joints
  5. Edges: Tapered
  6. Accessory Material: Provide Rapid Deco Joint Compound as recommended by Manufacturer
- P. Fire-Rated and Mold-Resistant Level Five Gypsum Board: Gypsum core panel for Level Five applications; with glass fibers to enhance fire resistance of the core; surfaced with factory applied skim-coat on face layer and mold and mildew gray backing paper, and complying with ASTM 1396 Section 7, ASTM C 630 and ASTM C 840, Type X.
1. Acceptable Product: Continental Building Products Rapid Deco Level Five Type X Drywall with Mold Defense
  2. Thickness: 5/8 inch (15.9 mm)
  3. Width: 48 inches (1219 mm)
  4. Length: Use longest length available, avoiding unnecessary joints
  5. Edges: Tapered
  6. Accessory Material: Provide Rapid Deco Joint Compound as recommended by Manufacturer

## 2.4 GYPSUM SHEATHING AND SOFFIT PANELS

- A. Exterior Gypsum Soffit Board: Gypsum core soffit panel with additives to enhance sag resistance of core; surfaced with paper on front and back; and complying with ASTM C 1396 Section 8 and ASTM C 931.
1. Acceptable Product: Continental Building Products Soffitboard
  2. Thickness: 1/2 inch (12.7 mm)
  3. Width: 48 inches (1220 mm)
  4. Length: Use longest length available, avoiding unnecessary joints
  5. Edges:
    - a. Use square edges at \_\_\_\_\_
    - b. Use rounded tapered edges at \_\_\_\_\_
- B. Fire-Rated Exterior Gypsum Soffit Board: Gypsum core soffit panel with additives to enhance fire-resistance and sag resistance of core; surfaced with paper on front and back; and complying with ASTM C 1396 Section 8 and ASTM C 931, Type X.
1. Acceptable Product: Continental Building Products Firecheck Soffitboard Type X
  2. Thickness: 5/8 inch (15.9 mm)
  3. Width: 48 inches (1220 mm)
  4. Length: Use longest length available, avoiding unnecessary joints
  5. Edges:
    - a. Use square edges at \_\_\_\_\_

- b. Use rounded tapered edges at \_\_\_\_\_
- C. Glass-Mat Gypsum Sheathing Board: Gypsum core sheathing surfaced with fiberglass mat on front and back: complying with ASTM 1396 and ASTM C1177
  - 1. Acceptable Product: Continental Building Products Weather Defense Platinum Sheathing
  - 2. Thickness: 1/2 inch (12.7 mm)
  - 3. Width: 48 inches (1219 mm)
  - 4. Length: Use longest length available, avoiding unnecessary joints
  - 5. Edges: Square
- D. Fire-Rated Glass-Mat Gypsum Sheathing Board: Gypsum core sheathing surfaced with fiberglass mat on front and back: complying with ASTM 1396 Type X and ASTM C1177.
  - 1. Acceptable Product: Continental Building Products Weather Defense Platinum Sheathing Type X
  - 2. Thickness: 5/8" (15.9 mm)
  - 3. Width: 48 inches (1219 mm)
  - 4. Length: Use longest length available, avoiding unnecessary joints
  - 5. Edges: Square

## 2.5 GYPSUM PLASTER BASE

- A. Plaster Base: Gypsum core lathing panel with additives to enhance fire resistance of core and surfaced with highly absorptive paper on front and back; and complying with ASTM C 1396 Section 10 and ASTM C 588.
  - 1. Acceptable Product: Continental Building Products Plasterbase
  - 2. Thickness: 1/2 inch (12.7 mm)
  - 3. Width 48 inches (1220 mm)
  - 4. Length: Use longest length available, avoiding unnecessary joints
  - 5. Edges: Tapered
- B. Fire-Rated Plaster Base: Gypsum core lathing panel with additives to enhance fire resistance of core and surfaced with absorptive paper on front and long edges and complying with ASTM C 1396 Section 10 and ASTM C 588, Type X.
  - 1. Acceptable Product: Continental Building Products Firecheck Plasterbase Type X
  - 2. Thickness: 5/8 inch (15.9 mm)
  - 3. Width: 48 inches (1220 mm)
    - a. Length: Use longest length available, avoiding unnecessary joints
    - b. Edges: Tapered

## 2.6 GYPSUM JOINT TREATMENT AND FINISH PRODUCTS

- A. Joint Treatment Tape: Complying with ASTM C 475 and GA-216
- B. Joint Compound: Vinyl type pre-mixed compound; complying with ASTM C 475; acceptable product(s):
  - 1. Continental Building Products Rapid Coat Lightweight All Purpose Compound (White, Beige, Yellow)
  - 2. Continental Building Products Rapid Coat Fullweight All Purpose Compound (White)
  - 3. Continental Building Products Rapid Coat Mid-weight All Purpose Compound (White)
- C. Joint Compound: Setting type lightweight; job mixed chemical-hardening compound; off white color; complying with ASTM C 475; acceptable product(s):
  - 1. Continental Building Products Rapid Joint 20 Lightweight Setting Compound
  - 2. Continental Building Products Rapid Joint 45 Lightweight Setting Compound
  - 3. Continental Building Products Rapid Joint 90 Lightweight Setting Compound
  - 4. Continental Building Products Rapid Joint 210 Lightweight Setting Compound

- D. Joint Compound: Level Five vinyl type pre-mixed compound; off-white color or tinted gray color; complying with ASTM C 475 and fulfilling ASTM C 840; designed for joint finishing of Level Five gypsum board; acceptable product(s):
  - 1. Rapid Deco L5 Level Five All Purpose Compound (White, Tinted)

## 2.7 ACCESSORY MATERIALS

- A. Corner Bead: Formed galvanized steel angle, min. base steel 0.014 in. thick, and complying with ASTM C 1047
- B. Casing Bead: Formed galvanized steel trim, minimum base steel thickness of 0.014 inch (0.35 mm), complying with ASTM C 1047, type(s) as follows:
  - 1. J-shaped U-bead, for face nailing and finishing with joint treatment
  - 2. J-shaped U-bead, requiring no finishing
  - 3. L-shaped, for application over edge and finishing with joint treatment
- C. Control Joint: Extruded vinyl formed with V-shaped slot covered with removable flexible vinyl strip; complying with ASTM C 1047
- D. Control Joint: Bent zinc sheet formed with V-shaped slot, covered with plastic tape, with perforated flanges; complying with ASTM C 1047
- E. Screws: ASTM C 954 or ASTM C 1002 or both with heads, threads, points, and finish as recommended by panel manufacturer
- F. Nails: ASTM C 514 with heads, lengths, configurations, and finish as recommended by panel manufacturer
- G. Acoustical Sealant: Nondrying, nonhardening, nonskinning, nonstaining, nonbleeding, gunnable type as recommended by panel manufacturer
- H. Insulation: ASTM C 665, Type I, mineral fiber (either glass, rock, or slag) insulation blankets without membrane facing

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Verify site conditions are ready to receive work and framing and opening dimensions are as indicated on the Drawings.
- B. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Coordinate preparation of Level 5 gypsum board with manufacturer's requirements.

### 3.3 INSTALLATION

- A. Application: Apply and maintain conditions during installation in accordance with GA-216 and GA-238 and as follows:
  - 1. Keep gypsum board dry throughout application.

2. Do not use gypsum board that has visible mold growth.
  3. Apply gypsum board on walls with a minimum 1/4 inch (6.4 mm) gap between the gypsum board and the floor.
  4. Do not apply gypsum board over other building materials where conditions exist that are favorable to mold growth.
  5. Maintain a sound weather-tight building envelope including, such elements as the roof, sealants, windows, etc.
  6. Immediate and appropriate remediation measures must be taken as soon as water leaks or condensation sources are identified.
  7. Provide routine cleaning and maintenance operations to prevent saturation of the gypsum board.
  8. If gypsum board is damaged by water, assess the need for replacement in accordance with GA-231.
- B. Install accordance with GA 216 and the following:
1. Metal Framing: ASTM C 754.
  2. Gypsum Sheathing Board: ASTM C 1280 and GA-253.
  3. Fire-Resistant Construction: GA 600.
  4. Gypsum Board and Joint Treatment: ASTM C 840 and GA-214.
  5. Gypsum panel manufacturer's published recommendations.
- C. Finishing: Tape, fill, sand and finish joints in accordance with ASTM C 840 and GA-214.
1. Level 1: Plenums and service corridors.
  2. Level 2: Water-resistant gypsum backing board indicated to receive tile.
  3. Level 3: Gypsum board indicated to receive heavy or medium textured coatings and heavy-grade wall coverings.
  4. Level 4: Gypsum board indicated to receive light textured coatings and light-grade wall coverings.
  5. Level 5: All other gypsum board.
  6. Level 5 Skim Coated Gypsum Wall Board: Skim coat joints with Rapid Deco Joint compound specified.

### 3.4 PROTECTION

- A. Protect work from damage and deterioration until date of Substantial Completion.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

### 3.5 SCHEDULES

- A. Exterior Wall Sheathing:
  1. Gypsum sheathing board
  2. Use fire-rated gypsum sheathing board at \_\_\_\_\_
  3. Framing: \_\_\_\_\_
- B. Exterior Soffits:
  1. Use exterior gypsum soffit board
  2. Use fire-rated exterior gypsum soffit board
  3. Framing: \_\_\_\_\_
- C. Shaftwalls: Defined as \_\_\_\_\_
  1. Use gypsum shaftliner board
  2. Use fire-rated gypsum board
  3. Framing: C-T, C-H or I-studs with J-track
- D. Area Separation Walls:
  1. Use fire-rated gypsum shaftliner board at \_\_\_\_\_

2. Use regular gypsum board on interior at \_\_\_\_\_
  3. Framing: C-Track
  4. Framing: H-studs
- E. Other Interior Partitions Indicated As Fire-Rated:
1. Use fire-rated gypsum board unless otherwise indicated
  2. Use fire-rated abuse-resistant gypsum board at \_\_\_\_\_
  3. Use fire-rated mold and mildew-resistant gypsum board at \_\_\_\_\_
  4. Use fire-rated water-resistant gypsum board at \_\_\_\_\_
  5. Framing: \_\_\_\_\_
- F. Other Interior Partitions:
1. Use regular gypsum board unless otherwise indicated
  2. Use abuse-resistant gypsum board at \_\_\_\_\_
  3. Use water-resistant gypsum board at \_\_\_\_\_
  4. Use mold and mildew-resistant gypsum board at \_\_\_\_\_
  5. Framing: \_\_\_\_\_
  6. Acoustical Rating: STC of \_\_\_\_\_, minimum
- G. Fire-Rated Interior Ceilings, Bulkheads, and Soffits:
1. Use fire-rated gypsum board unless otherwise indicated
  2. Framing: \_\_\_\_\_
- H. Other Interior Ceilings, Bulkheads, and Soffits:
1. Use gypsum ceiling board unless otherwise indicated
  2. Use regular gypsum board at \_\_\_\_\_
  3. Framing: \_\_\_\_\_

END OF SECTION