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SECTION 09 29 00

GYPSUM BOARD

THIS SECTION IS WRITTEN IN CSI 3-PART FORMAT AND IN CSI PAGE FORMAT; THE PROJECT NAME, PROJECT NUMBER, DATE, AND SECTION TITLE IN THE FOOTER ARE OPTIONAL. NOTES TO THE SPECIFIER, SUCH AS THIS, ARE INDICATED WITH A ## SYMBOL AND MUST BE DELETED FROM THE FINAL SPECIFICATION.

IT IS ASSUMED THAT THE GENERAL CONDITIONS BEING USED ARE AIA A201.

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:

EDIT LIST BELOW TO CONFORM TO PROJECT REQUIREMENTS.

1. Metal framing for the support of gypsum board partitions and ceilings.
2. Gypsum board and joint treatment products.
3. Accessories for the installation and trimming of gypsum board partitions and ceilings.

EDIT LIST BELOW TO CONFORM TO PROJECT REQUIREMENTS. VERIFY SECTION NUMBERS AND TITLES.

B. Related Sections:

IF PROJECT INCLUDES GYPSUM BOARD SUPPORTED BY WOOD FRAMING THEN RETAIN REFERENCE TO SECTION 06 10 00.

1. Section 06 10 00, Rough Carpentry.
2. Section 09 26 13, Veneer Plaster.
3. Section 09 21 16.23, Shaftwall Systems
4. Section 09 21 16.33, Area Separation Walls.
4. Section 09 28 00, Cement Board.
5. Section 09 72 00, Prefinished Gypsum Wall Panels.

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USE THE PARAGRAPH BELOW TO IDENTIFY ALTERNATES DESCRIBED IN DIVISION 01, SECTION 01 23 00, THAT INCLUDE WORK OF THIS SECTION.

C. Alternates:

1.02 REFERENCES

DELETE REFERENCES NOT USED IN PART 2 OR PART 3.

- A. American National Standards Institute (ANSI):
1. A108.11, American National Standard for Interior Installation of Cementitious Backer Units.
- B. American Society for Testing and Materials (ASTM):
1. C 36, Specification for Gypsum Wallboard.
 2. C 79, Test Method for Gypsum Sheathing Board.
 3. C 442, Specification for Gypsum Backing Board and Coreboard.
 4. C 473, Test Methods for Physical Testing of Gypsum Panel Products.
 5. C 514, Specification for Nails for the Application of Gypsum Wallboard.
 6. C 630, Specification for Water-Resistant Gypsum Backing Board.
 7. C 645, Specification for Non-Load (Axial) Bearing Steel Studs, Runners (Track), and Rigid Furring Channels for Screw Application of Gypsum Board.
 8. C 754, Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Board.
 9. C 840, Specification for Application and Finishing of Gypsum Board.
 10. C 931, Specification for Exterior Gypsum Soffit Board.
 11. 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.
 12. C 960, Specification for Predecorated Gypsum Board.
 13. C 1002, Specification for Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Bases.
 14. C 1047, Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base.
 15. C 1280, Specification for Application of Gypsum Sheathing Board.
 16. C 1395, Specification for Gypsum Ceiling Board.
 17. C 1396, Specification for Gypsum Board.
 18. D 3273, Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
 19. D 4977, Test Method for Granule Adhesion to Mineral Surfaced Roofing by Abrasion.
 20. D 5420, Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact)
 21. E 695, Standard Method of Measuring Relative Resistance of Wall, Floor, and Roof Construction to Impact Loading.

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- C. Gypsum Association (GA):
 - 1. GA-214, Recommended Specifications: Levels of Gypsum Board Finish.

1.03 SYSTEM DESCRIPTION

- A. Performance Requirements:

STUDS THAT CANNOT BE SELECTED USING THE MANUFACTURER'S STANDARD LOAD TABLES ARE STRUCTURAL STUDS AND SHOULD BE SPECIFIED IN SECTION 05 40 00.

- 1. Select steel studs in accordance with the manufacturer's standard load tables and following design pressures and deflections:

EDIT LIST BELOW TO CONFORM TO PROJECT REQUIREMENTS.

- a. At stairs, elevator hoistways, and other vertical shafts: L/120 at 10 psf.
- b. At ground floor lobbies: L/120 at 15 psf.
- c. At partitions to receive stone cladding, lath and plaster, or veneer plaster: L/360 at 15 psf.
- d. At all other partitions: L/240 at 5 psf.

RETAIN BELOW IF FIRE-RATED IMPACT-RESISTANT BOARD IS SPECIFIED.

- B. Fire-Rated Impact-Resistant Board: Provide boards with indicated impact resistance when tested in accordance with industry proposed standard.

RETAIN BELOW IF FIRE-RATED ABUSE-RESISTANT BOARD IS SPECIFIED.

- C. Fire-Rated Abuse-Resistant Board: Provide boards with indicated surface indentation resistance and impact resistance when tested in accordance with the test procedures referenced as modified by National Gypsum Co.

1.04 SUBMITTALS

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

RETAIN BELOW IF TEXTURED COATINGS ARE SPECIFIED.

- B. Samples: Min. 12 in. by 12 in. coated gypsum board panel for of each type and texture of textured coating.

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RETAIN SINGLE-SOURCE PARAGRAPH BELOW IF MORE THAN ONE MANUFACTURER IS LISTED IN PART 2 OR IF SECTION IS EDITED TO BE GENERIC. EDIT TO CONFORM TO PROJECT REQUIREMENTS.

1.05 QUALITY ASSURANCE

- A. Single-Source Responsibility: Obtain gypsum board products, joint treatment products, and textured coatings from a single manufacturer.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Packaging and Shipping: Have materials shipped in manufacturer's original packages showing manufacturer's name and product brand name.
- B. Storage and Protection: Store materials inside and protected from damage by the elements. Protect ends, edges, and faces of gypsum boards from damage. Protect steel studs and accessories from bending.

1.07 PROJECT CONDITIONS

- A. Environmental Requirements: Establish and maintain application and finishing environment in accordance with ASTM C 840.

PART 2 PRODUCTS

2.01 MANUFACTURERS

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.

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 Board:
 - a. Regular Board: Gold Bond Brand Gypsum Wallboard.
 - b. Mold-Resistant Board: Gold Bond Brand XP Wallboard
 - c. Fire-Rated Board: Gold Bond Brand Fire-Shield Wallboard.
 - d. Fire-Rated Mold-Resistant Board: Gold Bond Brand XP Fire-Shield Wallboard
 - e. Fire-Rated Board: Gold Bond Brand Fire-Shield C Wallboard.

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- f. Fire-Rated Mold-Resistant Board: Gold Bond Brand XP Fire-Shield C Wallboard.
 - g. Fire-Rated Abuse-Resistant Mold-Resistant Board: Hi-Abuse Brand XP Wallboard.
 - h. Fire-Rated Impact/Penetration-Resistant Mold-Resistant Board: Hi-Impact Brand XP Wallboard.
 - i. Water-Resistant Backing Board: Gold Bond Brand MR Board.
 - j. Fire-Rated Water-Resistant Backing Board: Gold Bond Brand Fire-Shield MR Board.
 - k. Fire-Rated Water-Resistant Backing Board: Gold Bond Brand Fire-Shield C MR Board.
 - l. Ceiling Board: High Strength Brand Ceiling Board.
 - m. Sheathing Board: Gold Bond Brand Gypsum Sheathing.
 - n. Sheathing Board: Gold Bond Brand Jumbo Gypsum Sheathing.
 - o. Fire-Rated Sheathing Board: Gold Bond Brand Fire-Shield Jumbo Gypsum Sheathing.
 - p. Fire-Rated Shaftliner Board: Gold Bond Brand Fire-Shield Shaftliner.
 - q. Fire-Rated Mold-Resistant Shaftliner Board: Gold Bond Brand Fire-Shield Shaftliner XP.
 - r. Exterior Soffit Board: Gold Bond Brand Exterior Soffit Board.
 - s. Fire-Rated Exterior Soffit Board: Gold Bond Brand Fire-Shield Exterior Soffit Board.
 - t. Flexible Board: High Flex Brand Gypsum Wallboard.
 - u. Fire-Rated Vinyl Laminated Ceiling Board: Gridstone Brand Ceiling Panel.
 - v. Fire-Rated Sealed Vinyl Laminated Ceiling Board: Gridstone Brand CleanRoom Ceiling Panel.
 - w. Vinyl Laminated Ceiling Board: Gridstone Brand Hi-Strength Ceiling Panel.
2. Joint Treatment:
- a. Tape: ProForm Brand Joint Tape.
 - b. Tape: ProForm Brand Multi-Flex Tape Bead.
 - c. Tape: ProForm Brand Fiberglass Mesh Tape.
 - d. Compound: ProForm Brand All Purpose Joint Compound.
 - e. Compound: ProForm Brand XP Joint Compound
 - f. Compound: ProForm Brand Multi-Use Joint Compound.
 - g. Compound: ProForm Brand Lite Joint Compound.
 - h. Compound: ProForm Brand Ultra Joint Compound.
 - i. Compound: ProForm Brand Topping Joint Compound.
 - j. Compound: Proform Brand Taping joint Compound
 - k. Compound: ProForm Brand Triple-T Compound
 - l. Compound: ProForm Brand Sta-Smooth Joint Compound.
 - m. Compound: ProForm Brand Sta-Smooth Lite Joint Compound.
 - n. Compound: ProForm Brand Sta-Smooth HS Joint Compound.

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IF PROJECT INCLUDES A LEVEL 5 FINISH, RETAIN PRIMER BELOW .

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3. Primer: Proform Brand Surfacers/Primer.
4. Textured Coatings:
 - a. Ceiling Coating: ProForm Brand Perfect Spray, Fine.
 - a. Ceiling Coating: ProForm Brand Perfect Spray, Medium.
 - a. Ceiling Coating: ProForm Brand Perfect Spray, Coarse.
 - b. Ceiling Coating: ProForm Brand Perfect Spray II.
 - c. Ceiling Coating: ProForm Brand Spray Quick, Fine.
 - c. Ceiling Coating: ProForm Brand Spray Quick, Medium.
 - c. Ceiling Coating: ProForm Brand Spray Quick, Course.
 - d. Wall Coating: ProForm Brand Perfect Spray EM, Spatter + Knockdown.
 - d. Wall Coating: ProForm Brand Perfect Spray EM, Spatter Finish.
 - d. Wall Coating: ProForm Brand Perfect Spray EM, Orange Peel.
 - e. Wall Coating: ProForm Brand Perfect Spray HF, Spatter + Knockdown.
 - e. Wall Coating: ProForm Brand Perfect Spray HF, Spatter Finish.
 - e. Wall Coating: ProForm Brand Perfect Spray HF, Orange Peel

IF SPECIFYING BY THE PROPRIETARY METHOD, ADD MANUFACTURERS AND PRODUCT NAMES FOR METAL FRAMING AND ACCESSORIES. FOLLOW THE FORMAT IN THE NEXT ARTICLE.

2.02 MATERIALS

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.

VERIFY DESCRIPTIONS OF METAL FRAMING PRODUCTS WITH MANUFACTURER.

A. Metal Framing:

STUDS BELOW ARE 25 GAGE.

1. Studs: 1-5/8 in., 2-1/2 in., 3-5/8 in., 4 in. and 6 in. C shaped studs, weighing 312 lbs., 370 lbs., 448 lbs., 472 lbs. and 607 lbs. per 1000 lin. ft. with min. base steel of 0.0179 in., galvanized, and complying with ASTM C 645.

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STUDS BELOW ARE 22 GAGE.

1. Studs: 1-5/8 in., 2-1/2 in., 3-5/8 in., 4 in. and 6 in. C shaped studs, weighing 389 lbs., 467 lbs., 692 lbs., 707 lbs. and 776 lbs. per 1000 lin. ft. with min. base steel of 0.0255 in., galvanized, and complying with ASTM C 645.

STUDS BELOW ARE 20 GAGE.

1. Studs: 2-1/2 in., 3-5/8 in., 4 in. and 6 in. C shaped studs weighing 579 lbs., 717 lbs., 747 lbs. and 971 lbs. per 1000 lin. ft. with min. base metal of 0.0312 in., galvanized and complying with ASTM C 645.

TRACK BELOW IS 25 GAGE WITH 1 IN. LEGS.

2. Track: 1-5/8 in., 2-1/2 in., 3-5/8 in., 4 in. and 6 in. U shaped track with 1 in. legs, weighing 244 lbs., 303 lbs., 378 lbs., 404 lbs. and 539 lbs. per 1000 lin. ft. with min. base metal of 0.0179 in., galvanized and complying with ASTM C 645.

TRACK BELOW IS 25 GAGE WITH 1-1/4 IN. LEGS.

2. Track: 1-5/8 in., 2-1/2 in., 3-5/8 in., 4 in. and 6 in. U shaped track with 1-1/4 in. legs, weighing 278 lbs., 337 lbs., 412 lbs., 438 lbs. and 572 lbs. per 1000 lin. ft. with min. base metal of 0.0179 in., galvanized and complying with ASTM C 645.

TRACK BELOW IS 25 GAGE WITH HEMMED LEGS.

2. Track: 1-5/8 in., 2-1/2 in., 3-5/8 in., 4 in. and 6 in. U shaped track with hemmed legs, weighing 278 lbs., 353 lbs., 432 lbs., 459 lbs. and 600 lbs. per 1000 lin. ft. with min. base metal of 0.0179 in., galvanized and complying with ASTM C 645.

TRACK BELOW IS 22 GAGE WITH NOMINAL 1-1/8 IN. LEGS.

2. Track: 1-5/8 in., 2-1/2 in., 3-5/8 in., 4 in. and 6 in. U shaped track with 1.177 in. legs, weighing 352 lbs., 430 lbs., 650 lbs., 663 lbs. and 739 lbs. per 1000 lin. ft. with min. base metal of 0.0225 in., galvanized and complying with ASTM C 645.

TRACK BELOW IS 20 GAGE WITH NOMINAL 1-1/4 IN. LEGS.

2. Track: 2-1/2 in., 3-5/8 in., 4 in. and 6 in. U shaped track with 1.177 in. legs, weighing 545 lbs., 664 lbs., 713 lbs. and 945 lbs. per 1000 lin. ft. with min. base metal of 0.0312 in., galvanized and complying with ASTM C 645.

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3. 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.

SELECT 2 in. CHANNEL ABOVE OR 1-1/2 in. CHANNEL BELOW.

4. 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.
5. Cross Furring Channels: 3/4 in. cold rolled steel channel, weighing 300 lbs. per lin. ft. with min. base steel of 0.054 in., galvanized or painted.
6. Rigid Furring Channels: 7/8 in. hat shaped channels, weighing 287 lbs. per 1000 lin. ft. with min. base steel of 0.0179 in., galvanized, and complying with ASTM C 645.
7. Resilient Furring Channels: 1/2 in. hat shaped channel with resilient legs, weighing 220 lbs. per 1000 lin. ft. with min. base steel of 0.019 in., galvanized.
8. Z Furring Channels: 1 in., 1-1/2 in. and 2 in. Z shaped channels, weighing 201 lbs., 236 lbs. and 268 lbs. per 1000 lin. ft. with min. base steel of 0.0179 in., galvanized, and complying with ASTM C 645.

VERIFY CROSS REFERENCE BELOW.

- B. Wood Framing: See Section 06 10 00.
- C. Regular Gypsum Board: A gypsum core wall panel surfaced with paper on front, back, and long edges and complying with ASTM C 36 and C 1396 (Gold Bond Brand Gypsum Wallboard).
 1. Thickness: 1/4 in., 3/8 in. or 1/2 in.
 2. Width: 4 ft.
 3. Length: 6 ft. through 16 ft.
 4. Edges: Square, Tapered, or Beveled Taper (Sta-Smooth Edge).
- D. Mold-Resistant Gypsum Board: A gypsum core wall panel with additives to enhance the water resistance of the core; surfaced with moisture/mold/mildew resistant paper on front, back and long edges and complying with ASTM C 630 and C 1396 (Gold Bond Brand XP Wallboard)
 1. Thickness: 1/2 in.
 2. Width: 4 ft.
 3. Length: 8 ft., 10 ft. or 12 ft.
 4. Edges: Square or tapered
 5. Mold and Mildew Resistance: Panel score of 10, when tested in accordance with ASTM D 3273.
- E. Fire-Rated Gypsum Board: A gypsum core wall panel with additives to enhance fire resistance of the core and surfaced with paper on front, back, and long edges and complying with ASTM C 36 and C 1396, Type X.

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1. Thickness: ½ in. (Gold Bond Brand Fire-Shield C Wallboard), 5/8 in. (Gold Bond Brand Fire-Shield Wallboard), or 5/8 in. (Gold Bond Brand Fire-Shield C Wallboard).
 2. Width: 4 ft.
 3. Length: 6 ft. through 16 ft.
 - ½ in. (Gold Bond Brand Fire-Shield C Wallboard)
 - 5/8 in. (Gold Bond Brand Fire-Shield Wallboard)
 - Length: 8 ft. through 14 ft.
 - 5/8 in. (Gold Bond Brand Fire-Shield C Wallboard)
 4. Edges: Square, Tapered, or Beveled Taper (Sta-Smooth Edge).
- F. Fire-Rated Mold-Resistant Gypsum Board: A gypsum core wall panel with additives to enhance the fire resistance of the core and the water resistance of the core; surfaced with a moisture/mold/mildew resistant paper on the front, back and long edges and complying with ASTM C 630 and C 1396, Type X.
1. Thickness: ½ in. (Gold Bond Brand XP Fire-Shield C Wallboard), 5/8 in. (Gold Bond Brand XP Fire-Shield Wallboard).
 2. Width: 4 ft.
 3. Length: 8 ft., 10 ft. or 12 ft
 4. Edges: Square or Tapered
 5. Mold and Mildew Resistance: Panel score of 10, when tested in accordance with ASTM D 3273.
- G. Fire-Rated Abuse-Resistant Mold-Resistant Gypsum Board: A gypsum core wall panel with additives to enhance fire resistance, surface indentation resistance, and impact resistance of the core and surfaced with abrasion, moisture/mold/mildew resistant paper on front, back and long edges; and complying with ASTM C 36 and C 1396, Type X (Hi-Abuse Brand XP Fire-Shield Wallboard).
1. Thickness: 5/8 in.
 2. Width: 4 ft.
 3. Length: 8 ft. through 12 ft.
 4. Edges: Tapered.
 5. Surface Abrasion Resistance: Not greater than 0.015" depth when tested at 50 cycles in accordance with ASTM D 4977, Modified.
 6. Indentation Resistance: Not greater than 0.132" depth when tested at an impact load of 72 in.-lbs. In accordance with ASTM D5420.
 7. Impact/Penetration Resistance: Not less than 210 ft.-lbs. when tested in accordance with ASTM E 695, Modified.
 8. Mold and Mildew Resistance: Panel score of 10, when tested in accordance with ASTM D 3273.
- H. Fire-Rated Impact/Penetration-Resistant Mold-Resistant Gypsum Board: A gypsum core wall panel with additives to enhance fire resistance, water resistance, surface indentation resistance and impact resistance of the core; surfaced with abrasion, moisture/mold/mildew resistant paper on the front, back, and long edges

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with a fiberglass mesh embedded in the board to enhance impact/penetration resistance; and complying with ASTM C 630 and C 1396, Type X. (Hi-Impact Brand XP Wallboard).

1. Thickness: 5/8 in.
 2. Width: 4 ft.
 3. Length: 8 ft. through 12 ft.
 4. Edges: Tapered.
 5. Surface Abrasion Resistance: Not greater than 0.015" depth when tested at 50 cycles in accordance with ASTM D 4977, Modified.
 6. Indentation Resistance: Not greater than 0.114" depth when tested at an impact load of 72 in.-lbs. in accordance with ASTM D5420.
 7. Impact/Penetration Resistance: Not less than 540 ft.-lbs. when tested in accordance with ASTM E 695, Modified.
 8. Mold and Mildew Resistance: Panel score of 10, when tested in accordance with ASTM D 3273.
- I. Water-Resistant Gypsum Backing Board: A gypsum core wall panel with additives to enhance the water resistance of the core; surfaced with water repellant paper on front, back, and long edges; and complying with ASTM C 630 (Gold Bond Brand MR Board).
1. Thickness: ½ in.
 2. Width: 4 ft.
 3. Length: 6 ft. through 16 ft.
 4. Edges: Tapered.
- J. Fire-Rated Water-Resistant Gypsum Backing Board: A gypsum core wall panel with additives to enhance the fire resistance of the core and the water resistance of the core; surfaced with water repellant paper on front, back, and long edges; and complying with ASTM C 630 and C 1396, Type X.
1. Thickness: ½ in. (Gold Bond Brand Fire-Shield C MR Board) or 5/8 in. (Gold Bond Brand Fire-Shield MR Board).
 2. Width: 4 ft.
 3. Length: 6 ft. through 16 ft.
 4. Edges: Square, Tapered, or Beveled Taper (Sta-Smooth Edge).
- K. Gypsum Ceiling Board: A gypsum core ceiling panel with additives to enhance the sag resistance of the core and surfaced with paper on front, back, and long edges; and complying with ASTM C 1395 and C 1396 (High Strength Brand Ceiling Board).
1. Thickness: ½ in.
 2. Width: 4 ft.
 3. Length: 6 ft. through 16 ft.
 4. Edges: Tapered.
- L. Gypsum Sheathing Board: A gypsum core sheathing panel with additives to enhance the water resistance of the core; surfaced with water repellant paper on front, back, and long edges; and complying with ASTM C 79 and C 1396.

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1. Regular Board, 2 ft. by 8 ft.: ½ in. thick with tongue and groove edge (Gold Bond Brand Gypsum Sheathing).
 2. Regular Board, 4 ft. by 8 ft. or 9 ft. or 10 ft.: ½ in. thick with square edge (Gold Bond Brand Jumbo Gypsum Sheathing).
 3. Fire-Rated Board (Type X): 5/8 in. thick by 4 ft. wide by 8 ft. or 9 ft. or 10 ft. long with additives in the core to enhance fire resistance (Gold Bond Brand Fire-Shield Jumbo Gypsum Sheathing).
- M. Fire-Rated Gypsum Shaftliner Board: A gypsum core shaftwall panel with additives to enhance fire resistance of the core and surfaced with water repellant paper on front, back, and long edges and complying with ASTM C 442 and C 1396, Type X (Gold Bond Brand Fire-Shield Shaftliner).
1. Thickness: 1 in.
 2. Width: 2 ft.
 3. Length: 7 ft. through 14 ft.
 4. Edges: Beveled.
- N. Fire-Rated Mold-Resistant Gypsum Shaftliner Board: A gypsum core shaftwall panel with additives to enhance fire resistance of the core and mold/mildew resistance of the core; surfaced with moisture/mold/mildew resistant paper on the front, back, and long edges and complying with ASTM C 442 and C 1396, Type X (Gold Bond Brand Fire-Shield Shaftliner XP).
1. Thickness: 1 in.
 2. Width: 2 ft.
 3. Length: 7 ft. through 14 ft.
 4. Edges: Beveled.
 5. Mold and Mildew Resistance: Panel score of 10, indicating no mold growth, when tested in accordance with ASTM D 3273.
- O. Exterior Gypsum Soffit Board: A gypsum core soffit panel with additives to enhance the sag resistance of the core; surfaced with water repellant paper on front, back, and long edges; and complying with ASTM C 931 and C 1396 (Gold Bond Brand Exterior Soffit Board).
1. Thickness: ½ in.
 2. Width: 4 ft.
 3. Length: 8 ft. through 12 ft.
 4. Edges: Beveled Taper (Sta-Smooth Edge).
- P. Fire-Rated Exterior Gypsum Soffit Board: A gypsum core soffit panel with additives to enhance the fire-resistance and the sag resistance of the core; surfaced with water repellant paper on front, back, and long edges; and complying with ASTM C 931, Type X (Gold Bond Brand Fire-Shield Exterior Soffit Board).
1. Thickness: 5/8 in.
 2. Width: 4 ft.
 3. Length: 8 ft. through 12 ft.
 4. Edges: Beveled Taper (Sta-Smooth Edge).

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- Q. Flexible Gypsum Board: A gypsum core wall panel with additives to enhance flexibility, surfaced with paper on front, back, and long edges; and complying with ASTM C 36 and C 1396 (High Flex Brand Gypsum Wallboard).
1. Thickness: 1/4 in.
 2. Width: 4 ft.
 3. Length: 8 ft. through 12 ft.
 4. Edges: Tapered.
- R. Fire-Rated Vinyl Laminated Gypsum Ceiling Board: A gypsum core lay-in ceiling panel with additives to enhance sag and fire resistance, surfaced with paper on front and back and finished on the front with a 2-mil-thick white stipple textured vinyl laminate; and complying with ASTM C 960; C 1396, Type X, Class 1; and E 1264, Type XX, patterns E and G (Gridstone Brand Ceiling Panel).
1. Thickness: 1/2 in.
 2. Width: 2 ft.
 3. Length: 2 ft. and 4 ft.
 4. Edges: Square.
- S. Fire-Rated Sealed Vinyl Laminated Gypsum Ceiling Board: A gypsum core lay-in ceiling panel with additives to enhance sag and fire resistance, sealed on the front, back, and long edges with a 2-mil-thick rigid vinyl film, short edges sealed with a durable coating; and complying with ASTM C 960; C 1396, Type X, Class 1; and E 1264, /Type XX, patterns E and G (Gridstone Brand CleanRoom Ceiling Panel).
1. Thickness: 1/2 in.
 2. Width: 2 ft.
 3. Length: 2 ft. and 4 ft.
 4. Edges: Square.
- T. Vinyl Laminated Gypsum Ceiling Board: A gypsum core lay-in ceiling panel with additives to enhance sag resistance, surfaced with paper on front and back and finished on the front with a 2-mil-thick white stipple textured vinyl laminate; and complying with ASTM C 960; C 1396, Class 1; and E 1264, Type XX, patterns E and G (Gridstone Brand Hi-Strength Ceiling Panel).
1. Thickness: 5/16 in.
 2. Width: 2 ft.
 3. Length: 2 ft. and 4 ft.
 4. Edges: Square.
- U. Joint Treatment:
1. Tape: 2-1/16 in. wide paper reinforcing tape (ProForm Brand Joint Tape).
 2. Tape: 2 in. wide paper reinforcing tape with metal strips laminated along the center crease to form inside and outside corners (ProForm Brand Multi-Flex Tape Bead).
 3. Tape: 2 in. wide self adhering fiberglass tape (ProForm Brand Fiberglass Mesh Tape).
 4. Compound: Drying type pre-mixed vinyl base compound (ProForm Brand All Purpose Joint Compound, regular grade and machine grade, ProForm Brand

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XP Joint Compound, ProForm Brand Multi-Use Joint Compound, ProForm Brand Lite Joint Compound, and ProForm Brand Ultra Joint Compound.

5. Compound: Drying type job mixed vinyl base compound (ProForm Brand Triple-T Compound).
6. Compound: Drying type vinyl base topping compound, pre-mixed (ProForm Brand Topping Compound).
7. Compound: Drying type vinyl based taping compound, pre-mixed (ProForm Brand Taping Joint Compound).
8. Compound: Setting type job mixed chemical-hardening compound (ProForm Brand Sta-Smooth Joint Compound, ProForm Brand Sta-Smooth Lite Joint Compound, and ProForm Brand Sta-Smooth HS Joint Compound).

IF PROJECT INCLUDES A LEVEL 5 FINISH, RETAIN PRIMER BELOW .

W. Primer: Acrylic latex, high-build, spray applied coating to provide a Level 5 finish (ProForm Brand Surfacer/Primer).

X. Textured Coatings:

IF THIS SECTION IS BEING EDITED TO BE GENERIC, THEN ADD INDICATION OF TEXTURE(S) BELOW OR INDICATE THAT ARCHITECT WILL SELECT TEXTURE.

1. Ceiling Coating: Compound of minerals and clays for mixing with a mineral or polystyrene aggregate and water (ProForm Brand Perfect Spray, Perfect Spray II, and Spray Quick).
2. Wall Coating: Compound of minerals and clays for mixing with water (ProForm Brand Perfect Spray EM and Perfect Spray HF).

VERIFY DESCRIPTIONS OF METAL ACCESSORY PRODUCTS WITH MANUFACTURER.

2.03 ACCESSORIES

- 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, min. base steel 0.014 in. thick, and complying with ASTM C 1047, Type as follows:
 1. LC-Bead.
 2. L-Bead.
 3. U-Bead.
- C. Control Joint: Extruded vinyl formed with V shaped slot covered with removable flexible vinyl strip and complying with ASTM C 1047.

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- D. Control Joint: Bent zinc sheet formed with V shaped slot, covered with plastic tape, with perforated flanges and Complying with ASTM C 1047.

RUNNER BELOW IS FOR GYPSUM BOARD PARTITIONS AND SHAFTWALL.

- E. Floor and Ceiling Runners: L shaped runner, weighing 545 lbs. per 1000 lin. ft. with min. base steel of 0.0329 in., galvanized.

RUNNER BELOW IS FOR 2 IN. SOLID LATH AND PLASTER PARTITIONS.

- F. Floor and Ceiling Runners: Perforated L shaped runner, weighing 281 lbs. per 1000 lin. ft. with min. base steel of 0.0179 in., galvanized.

RUNNER BELOW IS FOR 2 IN. SOLID GYPSUM BOARD PARTITIONS USING 1 IN. SHAFTLINER.

- G. Floor and Ceiling Runners: L shaped runner, weighing 281 lbs. per 1000 lin. ft. with min. base steel of 0.0179 in., galvanized.

- H. Screws: ASTM C 954 or ASTM C 1002 or both with heads, threads, points, and finish as recommended by the manufacturer.

- I. Nails: ASTM C 514 with heads, lengths, configurations, and finish as recommended by the manufacturer.

- J. Acoustical Sealant: Nondrying, nonhardening, nonskinning, nonstaining, nonbleeding, gunnable type as recommended by the manufacturer.

PART 3 EXECUTION

3.01 INSTALLATION

- A. General: In accordance with the following reference standards and manufacturer's recommendations:

1. Metal Framing: ASTM C 754.
2. Gypsum Sheathing Board: ASTM C 1280.
3. Gypsum Board and Joint Treatment: ASTM C 840.

IF OTHER MANUFACTURERS WERE ADDED IN PART 2 THEN REFERENCE THEIR INSTALLATION RECOMMENDATIONS BELOW BY TITLE.

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2. Manufacturer's Recommendations:
 - a. "Gypsum Construction Guide," National Gypsum Co.
 - b.
 - c.
- B. Finishing: In accordance with GA-214 as follows:

EDIT BELOW TO CONFORM TO PROJECT REQUIREMENTS OR INDICATE FINISH LEVELS ON THE FINISH SCHEDULE IN THE DRAWINGS AND DELETE THIS PARAGRAPH. SEE THE "GYPSUM CONSTRUCTION GUIDE" AND GA-214 FOR GUIDANCE ON THE USE OF FINISH LEVELS.

1. Level 1: Plenums and service corridors.
2. Level 2: Water resistant gypsum backing board scheduled to receive tile.
3. Level 3: Gypsum board scheduled to receive heavy or medium textured coatings and heavy-grade wall coverings.
4. Level 4: Gypsum board scheduled to receive light textured coatings and light-grade wall coverings.
5. Level 5: All other gypsum board.

3.02 PROTECTION

REVISE BELOW IF OTHER THAN AIA GENERAL CONDITIONS ARE USED.

- A. Protect gypsum board installations from damage and deterioration until the date of Substantial Completion.

END OF SECTION