SECTION 09 20 00 - GYPSUM BOARD

PART 1: GENERAL

1.1 SECTION INCLUDES

**NOTE TO SPECIFIER: Delete items below not required for project.

A. Gypsum board wall panels.
B. Gypsum Board soffit and ceiling panels.
C. Accessories and Trim.

1.2 RELATED SECTIONS

**NOTE TO SPECIFIER: Delete any sections below not relevant to this project; add others as required.

A. Section 05 40 00 - Cold Formed Metal Framing.
B. Section 06 10 10 - Rough Carpentry.
C. Section 07 92 00 - Sealant: Joint sealant and acoustical sealant.

1.3 REFERENCES

**NOTE TO SPECIFIER: Delete references from the list below that are not actually required by the text of the edited section.

F. 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” to 0.112” in thickness.
G. 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.
M. GA-214 - Recommended Levels of Gypsum Board Finish.
N. GA-216 - Application and Finishing of Gypsum Board.
O. GA-231 - Assessing Water damage to Gypsum Board.
P. GA-238 - Guidelines for the Prevention of Mold Growth on Gypsum Board.

1.4 SUBMITTALS

A. Submit under provisions of Section 01 30 00.
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. Design data test reports.
   4. Installation methods.

**NOTE TO SPECIFIER: Delete the following paragraphs if LEED is not applicable.**

C. LEED Submittals (Where applicable): Provide documentation of how the requirements of Credit will be met:
   1. List of proposed materials with recycled content. Indicate post-consumer recycled content and pre-consumer recycled content for each product having recycled content.
   2. Product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content.

D. Verification Samples: For each finish product specified, submit two samples representing actual product, color, and patterns.
   1. Texture: Submit a sample 12” square of textured coated gypsum board.

E. Manufacturer's Certificates: Certify products that meet or exceed specified requirements.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: A company specializing in manufacturing products specified in this section with minimum ten years documented experience.
B. Installer Qualifications: A company specializing in performing work of this section with minimum 3 years documented experience.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging indicating manufacturer and product name and protect until ready for installation.
B. Store gypsum in accordance with GA-238 and manufacturer recommendations.

1.7 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) in accordance with ASTM C 840 and within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
PART 2: PRODUCTS

2.1 MANUFACTURERS


**NOTE TO SPECIFIER: Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

B. Single Source Responsibility: Obtain gypsum board products, joint treatment, and accessories from a single manufacturer or from manufacturers recommended by prime manufacturer of gypsum board products.

C. Requests for substitutions will be considered in accordance with provisions of Section 01 31 00.

**NOTE TO SPECIFIER: Select the Gypsum Board Wall Panels required from the following paragraphs and delete those not required.

2.2 GYPSUM BOARD WALL PANELS

A. Standard Gypsum Board Products:

1. Regular Gypsum Board: Gypsum core panel solid set core enclosed in paper, complying with ASTM C1396.
   a. Thickness: ⁵⁄₈"  

   **NOTE TO SPECIFIER: Select one of the following thickness paragraphs and delete those not required.

   b. Width:

   **NOTE TO SPECIFIER: Select one of the following width paragraphs and delete those not required.

   1). 48"
   2). 54"
   3). 48" or 54"

   c. Length:

   **NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.

   1). 8'
   2). 9'
   3). 10'
   4). 12'
   5). Use longest length available to avoid joints.

   d. Edges:

   **NOTE TO SPECIFIER: Select one of the following edge paragraphs and delete those not required.

   1). Square
   2) Tapered

   2. Fire Rated Gypsum Board: Gypsum core panel with a specially formulated core for use in fire-resistive Type X designs, complying with ASTM C1396.
a. Thickness: ⅝”
b. Width:

**NOTE TO SPECIFIER: Select one of the following width paragraphs and delete those not required.

1). 48”
2). 54”
3). 48” or 54”

**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.

1). 8’
2). 9’
3). 10’
4). 12’
5). Use longest length available to avoid joints.

d. Edges:

**NOTE TO SPECIFIER: Select one of the following edge paragraphs and delete those not required.

1). Tapered
2). Evenwall

3. Fire Rated Gypsum Board: Gypsum core panel with a solid set, fire-resistive core for use in fire-resistive Type C designs, complying with ASTM C 1396.

a. Product: ProRoc Type C, manufactured by CertainTeed Gypsum, Inc.
b. Thickness:

**NOTE TO SPECIFIER: Select one of the following thickness paragraphs and delete those not required.

1). ⅝”
2). ⅝”

c. Width: 48”
d. Length:

**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.

1). 8’
2). 9’
3). 10’
4). 12’
5). Use longest length available to avoid joints.

e. Edges: Tapered

B. Moisture and Mold Resistant Products:

1. Moisture and Mold Resistant Gypsum Board: Gypsum core panel with enhanced core formulated for resistance to moisture and mold; surfaced with moisture/mold resistant paper on front, back, and long edges, complying with ASTM C 1396.
a. Product: ProRoc Moisture and Mold Resistant with M2TECH Gypsum Board by CertainTeed Gypsum, Inc.

b. Thickness: ½"

c. Width:

**NOTE TO SPECIFIER: Select one of the following width paragraphs and delete those not required.

1). 48"
2). 54"

d. Length:

**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.

1). 8’
2). 10’
3). 12’

e. Edges: Tapered.

f. Mold Resistance: Panel score of 10 (highest rating available) when tested in accordance with ASTM D 3273.

2. Fire Rated Moisture and Mold Resistant Gypsum Board: Gypsum core panel with enhanced core formulated for resistance to moisture and mold; for use in fire-resistant Type X designs. Surfaced with moisture/mold resistant paper of front, back, and long edges, complying with ASTM C 1396.

a. Product: ProRoc Moisture and Mold Resistant with M2TECH Type X Gypsum Board by CertainTeed Gypsum, Inc.

b. Thickness: ⅝"

c. Width:

**NOTE TO SPECIFIER: Select one of the following width paragraphs and delete those not required.

1). 48"
2). 54"

d. Length:

**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.

1). 8’
2). 10’
3). 12’

e. Edges: Tapered.

f. Mold Resistance: Panel score of 10 (highest rating available) when tested in accordance with ASTM D 3273.

3. Moisture and Mold Resistant Gypsum Board, Paperless Sheathing: Gypsum core panel with enhanced core formulated for resistance to moisture and mold, complying with ASTM C 1177.
b. Thickness: ½”
c. Width: 48”
d. Length:

**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.

1). 8’
2). 10’
3). 12’

e. Edges: Square

f. Mold Resistance: Panel score of 10 (highest rating available) when tested in accordance with ASTM D 3273.

4. Fire Rated Moisture and Mold Resistant Gypsum Board, Paperless Sheathing: Gypsum core panel with enhanced core formulated for resistance to moisture and mold; for use in fire-resistant Type X designs, complying with ASTM C 1177.

a. Product: GlasRoc Sheathing Type X by CertainTeed Gypsum, Inc.
b. Thickness: ⅝”
c. Width: 48”
d. Length:

e. Edges: Square

f. Mold Resistance: Panel score of 10 (highest rating available) when tested in accordance with ASTM D 3273.

5. Moisture and Mold Resistant Gypsum Board, Paperless Tile Backer: Gypsum core panel with enhanced core formulated for resistance to moisture and mold, complying with ASTM C 1177.

b. Thickness: ½”
c. Width: 48”
d. Length: 8’
e. Edges: Square

f. Mold Resistance: Panel score of 10 (highest rating available) when tested in accordance with ASTM D 3273.

6 Fire Rated Moisture and Mold Resistant Gypsum Board, Paperless Tile Backer: Gypsum core panel with enhanced core formulated for resistance to moisture and mold; for use in fire-resistant Type X designs, complying with ASTM C 1178.

a. Product: GlasRoc Tile Backer Type X by CertainTeed Gypsum, Inc.
b. Thickness: ⅝”
c. Width: 48”
d. Length: 8’
e. Edges: Square
f. Mold Resistance: Panel score of 10 (highest rating available) when tested in accordance with ASTM D 3273.

C. Moisture Resistant Products

1. Water-Resistant Gypsum Board: Gypsum core panel with enhanced water resistant core for use behind tile in wet areas, complying with ASTM C 1396.
   a. Product: ProRoc Moisture Resistant, manufactured by CertainTeed Gypsum, Inc.
   b. Thickness: ½”
   c. Width: 48”
   d. Length:

   **NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.

   1). 8’
   2). 9’
   3). 10’
   4). 12’
   5). Use longest length available to avoid joints.

   e. Edges: Tapered.

2. Fire Rated Water-Resistant Gypsum Board: Gypsum core panel with enhanced fire-resistance and water resistance core for use in fire-resistive Type X designs, complying with ASTM C 1396, Type X.
   a. Product: ProRoc Moisture Resistant Type X, manufactured by CertainTeed Gypsum, Inc.
   b. Thickness: ⅝”
   c. Width: 48”
   d. Length:

   **NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.

   1). 8’
   2). 9’
   3). 10’
   4). 12’
   5). Use longest length available to avoid joints.

   e. Edges: Tapered.

3. Moisture and Mold Resistant Gypsum Board, Paperless Tile Backer: Gypsum core panel with enhanced core formulated for resistance to moisture and mold, complying with ASTM C 1177.
   b. Thickness: ½”
   c. Width: 48”
   d. Length: 8’
   e. Edges: Square
   f. Mold Resistance: Panel score of 10 (highest rating available) when tested in accordance with ASTM D 3273.

4. Fire Rated Moisture and Mold Resistant Gypsum Board, Paperless Tile Backer: Gypsum core panel with enhanced core formulated for resistance to moisture and mold; for use in fire-resistant Type X designs, complying with ASTM C 1178.
a. Product: GlasRoc Tile Backer Type X by CertainTeed Gypsum, Inc.
b. Thickness: ⅝”
c. Width: 48”
d. Length: 8’
e. Edges: Square
f. Mold Resistance: Panel score of 10 (highest rating available) when tested in accordance with ASTM D 3273.

D. Specialty Products:

1. Flexible Gypsum Board: Gypsum core panel with enhanced core to allow for flexibility; complying with ASTM C 1396.
   a. Product: ProRoc ¼ Flex, manufactured by CertainTeed Gypsum, Inc.
   b. Thickness: ¼”
   c. Width: 48”
   d. Length:

**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.

1). 8’
2). 12”
3). Use longest length available to avoid joints.

2. Gypsum Backer Board: Gypsum core panel for use as first layer in multi-layer applications or as base layer in ceilings for adhesive title applications, complying with ASTM C 1396.
   b. Thickness: ½”
   c. Width: 48”
   d. Length:

**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.

1). 8’
2). 9’
3). 10’
4). 12’
5). Use longest length available to avoid joints.

   e. Edges: Square.

3. Fire Rated Gypsum Backer Board: Gypsum core panel with enhanced fire-resistant core for use as first layer in multi-layer applications or as base layer in ceilings for adhesive title applications in Type X designs, complying with ASTM C 1396, Type X.
   a. Product: ProRoc Backer Board Type X, manufactured by CertainTeed Gypsum, Inc.
   b. Thickness: ⅝”
   c. Width: 48”
   d. Length:

**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.

1). 8’
2). 9’
3). 10’
4). 12’
5). 14’
6). 16’
7). Use longest length available to avoid joints.

e. Edges: Square.

E. High Performance Products:

1. Abuse Resistant Gypsum Board: Gypsum core panel with enhanced core to provide resistance to abuse, complying with ASTM C 1396.
   a. Product: ProRoc Abuse Resistant, manufactured by CertainTeed Gypsum, Inc.
   b. Thickness: ½”
   c. Width: 48”
   d. Length:

**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.

1). 8’
2). 9’
3). 10’
4). 12’
5). Use longest length available to avoid joints.

e. Edges: Tapered.

2. Fire Rated Abuse Resistant Gypsum Board: Gypsum core panel with enhanced core to provide resistance to abuse for use in fire-resistive Type X designs, complying with ASTM C 1396, Type X.
   a. Product: ProRoc Abuse Resistant Type X, manufactured by CertainTeed Gypsum, Inc.
   b. Thickness: ⅝”
   c. Width: 48”
   d. Length:

**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.

1). 8’
2). 9’
3). 10’
4). 12’
5). Use longest length available to avoid joints.

e. Edges: Tapered.

3. Fire Rated Shaft Liner Gypsum Board: Gypsum core shaftwall panel with enhanced fire resistant core, complying with ASTM C 1396 Type X.
   b. Thickness: 1”
   c. Width: 24”
   d. Length:
**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.**

1). 8’
2). 12’
3). Use longest length available to avoid joints.

e. Edges: Modified Tapered.

2.3 GYPSUM BOARD CEILING AND SOFFIT PANELS

A. Exterior Soffit Board

1. Regular Exterior Soffit Board: Gypsum core soffit panel with sag resistant core, complying with ASTM C 1396.


   b. Thickness: ½”

   c. Width: 48”

   d. Length:

**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.**

1). 8’
2). 12’
3). Use longest length available to avoid joints.

e. Edges: Tapered.

2. Fire Rated Exterior Soffit Board: Gypsum core soffit panel with enhanced fire and sag resistant core for use in fire resistive designs, complying with ASTM C 1396, Type X.


   b. Thickness: ⅝”

   c. Width: 48”

   d. Length:

**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.**

1). 8’
2). 12’
3). Use longest length available to avoid joints.

e. Edges: Tapered.

3. Moisture and Mold Resistant Gypsum Board, Paperless Sheathing: Gypsum core panel with enhanced core formulated for resistance to moisture and mold, complying with ASTM C 1177.


   b. Thickness: ½”

   c. Width: 48”

   d. Length:
**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.**

1). 8’
2). 10’
3). 12’
4). Edges: Square

e. Mold Resistance: Panel score of 10 (highest rating available) when tested in accordance with ASTM D 3273.

4. Fire Rated Moisture and Mold Resistant Gypsum Board, Paperless Sheathing: Gypsum core panel with enhanced core formulated for resistance to moisture and mold; for use in fire-resistant Type X designs, complying with ASTM C 1177.

a. Product: GlasRoc Sheathing Type X by CertainTeed Gypsum, Inc.
b. Thickness: ⅝”
c. Width: 48”
d. Length:

e. Mold Resistance: Panel score of 10 (highest rating available) when tested in accordance with ASTM D 3273.

B. Interior Ceiling Board

1. Regular Gypsum Ceiling Board: Gypsum Core panel with enhanced sag resistant core; complying with ASTM C 1396.

b. Thickness: ⅝”
c. Width: 48”
d. Length:

e. Edges: Square

**NOTE TO SPECIFIER: Select one of the following length paragraphs and delete those not required.**

1). 8’
2). 10’
3). 12’
4). Use longest length available to avoid joints.

**NOTE TO SPECIFIER: Select the Accessories required from the following paragraphs and delete those not required.**

2.4 ACCESSORIES

A. Interior Trim: Complying with ASTM C 1047.
1. Corner Bead
2. Casing Beads:

**NOTE TO SPECIFIER: Select one of the following casing bead paragraphs and delete those not required.

a. LC-Bead
b. L-Bead
c. U-Bead

3. Control Joint

B. Fasteners:

**NOTE TO SPECIFIER: Select one of the following fastener paragraphs and delete those not required.

1. Screws: ASTM C 954 or ASTM C 1002 as recommended by panel manufacturer.
2. Adhesive: Recommended by panel manufacturer.

C. Joint Treatment:

1. Tape: Comply with ASTM C 475.
2. Joint Compound: Comply with ASTM C 475.

D. Texture Finishes:

1. Primer
2. Wall Texture: Texture finish shall be specified by the Architect or UT Dallas Project Manager.
3. Ceiling Texture: Texture finish shall be specified by the Architect or UT Dallas Project Manager.

**NOTE TO SPECIFIER: Include the following paragraphs and delete those not required.

E. Sealant: Provide Joint Sealant and Acoustical Sealant as specified in Section 07 92 00.

F. Insulation: Thermal and acoustical insulation as recommended by manufacturer.

PART 3: EXECUTION

3.1 EXAMINATION

A. Do not begin installation until supports and substrates have been properly prepared.

B. Verify that framing and supports are ready to receive work and opening dimensions are as indicated on the Drawings.

C. If support and substrate preparation is the responsibility of another installer, notify Architect and/or UT Dallas Project Manager of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Examine gypsum board panels for damage and existence of mold. Install undamaged panels.

C. Examine gypsum board in accordance with GA 231 for water damage.
D. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

A. Install in accordance with manufacturer's written instructions and ASTM C 840 and GA 216.

**NOTE TO SPECIFIER: Edit the following paragraphs as required for the project. Select single or double layer systems as required and delete those paragraphs not required.

B. Erect single layer gypsum board in most economical direction with ends and edges occurring over firm bearing.

C. Erect single layer fire rated gypsum board with edges and ends occurring over firm bearing.

D. Erect exterior gypsum sheathing horizontally, with edges butted and ends occurring over firm bearing.

E. Double Layer Applications: Use gypsum first layer, placed perpendicular or parallel to framing or furring members. Place second layer with offset joints from joints of first layer.

F. Place control joints consistent with lines of building spaces as indicated on Drawings.

G. Place corner beads at external corners. Use longest practical length. Place edge trim where gypsum board abuts dissimilar materials.

3.4 FINISHING

**NOTE TO SPECIFIER: Edit the following paragraphs as required for the project. Select the finishing levels as specified and defined in GA 214 and delete those not required.

A. General: Comply with ASTM C 840, GA 214 and GA 216.

   1. Level 1: Plenums, service corridors; above ceilings.

   2. Level 2: Areas of water resistant gypsum backing board under tile; exposed areas where appearance is not critical.

   3. Level 3: Areas to receive heavy or medium textured coatings; heavy-grade wall coverings.

   4. Level 4: Areas to receive flat sheen paint finish; light textured coatings; lightweight wall coverings.

   5. Level 5: Areas to receive gloss, semi-gloss sheen paints; critical lighting conditions.

3.5 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 09 20 00