

SECTION 09 29 00

GYPSUM BOARD

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

IT IS ASSUMED THAT THE GENERAL CONDITIONS BEING USED ARE AIA A201-1997.

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Mold- and moisture-resistant gypsum board.

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

- B. Related Sections:

1. Section 06 10 00 Rough Carpentry.
2. Section 09 21 16 Gypsum Board Assemblies.
3. Section 09 22 00 Supports for Plaster and Gypsum Board.

IF THE PROJECT INCLUDES ALLOWANCES OR ALTERNATES OR UNIT PRICES, RETAIN PARAGRAPHS BELOW AND COORDINATE WITH DIVISION 01.

- C. Allowances:

- D. Unit Prices:

- E. Alternates:

1.02 REFERENCES

- A. ASTM International (ASTM):

1. ASTM C473 Standard Test Methods for Physical Testing of Gypsum Panel Products.

2. ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
3. ASTM C630 Standard Specification for Water-Resistant Gypsum Backing Board.
4. ASTM C840 Standard Specification for Application and Finishing of Gypsum Board.
5. ASTM C1396 Standard Specification for Gypsum Board.
6. ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
7. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.

B. Gypsum Association (GA):

1. GA-214 Recommended Levels of Gypsum Board Finish.
2. GA-216 Application and Finishing of Gypsum Panel Products.
3. GA-801 Handling and Storage of Gypsum Panel Products: A Guide for Distributors, Retailers, and Contractors.

1.03 SUBMITTALS

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

1.04 QUALITY ASSURANCE

RETAIN BELOW IF REQUIRED, REVISE LIMITS IF  
REQUIRED.

- A. Regulatory Requirements: Provide products that comply with the following limits for surface burning characteristics when tested per ASTM E84:

1. Flame spread: 15.
2. Smoke developed: 0.

1.05 DELIVERY, STORAGE & HANDLING

- A. Comply with manufacturer's instructions, GA-216 and GA-801. Stack product flat on a level surface. As individual sheets are removed for installation, raise products carefully on edge and carry in a vertical position. Take care to avoid impact, undue flexing and damage to edges, ends and corners.

THIS GUIDE SPEC WAS WRITTEN TO PROVIDE THREE EDITING OPTIONS: 1) PROPRIETARY, 2) GENERIC, OR 3) A COMBINATION OF THE TWO.

## PART 2 PRODUCTS

IF PROPRIETARY PRODUCT NAMES ARE INCLUDED IN THE "MATERIALS" ARTICLE BELOW, DELETE THIS ARTICLE ALTOGETHER. IF A PROPRIETARY SPECIFICATION IS REQUIRED, RETAIN THIS ARTICLE AND DELETE THE "MATERIALS" ARTICLE.

### 2.01 MANUFACTURERS

EDIT LISTS BELOW TO CONFORM TO PROJECT REQUIREMENTS. IF OTHER MANUFACTURERS ARE BEING ADDED TO THIS SECTION, ADD LISTINGS OF THEIR PROPRIETARY PRODUCT NAMES.

- A. Georgia-Pacific Gypsum LLC:
  - 1. Mold- and Moisture-Resistant Gypsum Board: ToughRock Mold-Guard.
  - 2. Fire-Rated Mold- and Moisture-Resistant Gypsum Board: ToughRock Fireguard Mold-Guard.
- B.
- C.

THIS ARTICLE INCLUDES GENERIC DESCRIPTIONS OF GYPSUM BOARD PANELS; THE NAMES OF THE CORRESPONDING GEORGIA-PACIFIC GYPSUM PRODUCTS ARE INCLUDED AS ACCEPTABLE PRODUCTS. IF THIS SECTION IS BEING EDITED TO BE GENERIC, THESE PRODUCT NAMES SHOULD BE DELETED.

IF OTHER MANUFACTURERS ARE BEING ADDED TO THIS SECTION, 1) ADD THE PROPRIETARY PRODUCT NAMES OF THOSE MANUFACTURERS, OR 2) IF PROPRIETARY NAMES ARE LISTED IN THE "MANUFACTURERS" ARTICLE ABOVE, DELETE THEM FROM THIS ARTICLE ALTOGETHER.

### 2.02 MATERIALS

- A. Mold- and Moisture-Resistant Gypsum Board:
1. Thickness: 1/2 inch.
  2. Width: 4 feet.
  3. Length: 8 feet.
  4. Weight: 1.75 pounds per square foot.
  5. Edges: Tapered.
  6. Surfacing: 100% recycled paper coverings on face, back and long edges; green color on face.
  7. Flexural Strength, Parallel (ASTM C473): Not less than 36 lbf.
  8. Flexural Strength, Perpendicular (ASTM C473): Not less than 107 lbf.
  9. R-Value (ASTM C518): Not less than 0.45.
  10. Nail Pull Resistance (ASTM C473): Not less than 77 lbf.
  11. Humidified Deflection (ASTM C473): Not more than 10/8 inch.
  12. Hardness, Core, Edges, and Ends (ASTM C473, ASTM C1396): Not less than 15.
  13. Water Absorption (ASTM C630, ASTM C1396): Less than 5 percent of weight.
  14. Mold Resistance (ASTM D3273): 10, in a test as manufactured.
  15. Acceptable Products:
    - a. 1/2 inch ToughRock Mold-Guard Gypsum Board, Georgia-Pacific Gypsum.
    - b.
    - c.
- B. 5/8 Inch Fire-Rated Mold- and Moisture-Resistant Gypsum Board:
1. Thickness: 5/8 inch.
  2. Width: 4 feet.
  3. Length: 8 feet.
  4. Weight: 2.23 pounds per square foot.
  5. Edges: Tapered.
  6. Surfacing: 100% recycled paper coverings on face, back and long edges; green color on face.
  7. Flexural Strength, Parallel (ASTM C473): Not less than 46 lbf.
  8. Flexural Strength, Perpendicular (ASTM C473): Not less than 147 lbf.
  9. R-Value (ASTM C518): Not less than 0.56.
  10. Nail Pull Resistance (ASTM C473): Not less than 87 lbf.
  11. Humidified Deflection (ASTM C473): Not more than 5/8 inch.
  12. Hardness, Core, Edges, and Ends (ASTM C473, ASTM C1396): Not less than 15.
  13. Water Absorption (ASTM C630, ASTM C1396): Less than 5 percent of weight.
  14. Mold Resistance (ASTM D3273): 10, in a test as manufactured.

15. Acceptable Products:
  - a. 5/8 Inch ToughRock Fireguard Mold-Guard, Georgia-Pacific Gypsum.
  - b.
  - c.

## PART 3 EXECUTION

### 3.01 INSTALLATION

- A. General: In accordance with GA-216 or ASTM C840, and the manufacturer's recommendations.

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

1. Manufacturer's Recommendations:
  - a. Current "Submittal Sheet", Georgia-Pacific Gypsum.
  - b.
  - c.

### 3.02 FINISHING

- A. Comply with GA-214 and GA-216, and the manufacturer's recommendations.

### 3.03 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 09 29 00