SECTION 09 21 16.33

GYPSUM BOARD AREA SEPARATION WALL ASSEMBLIES

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

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

A. Allowances:

B. Unit Prices:

C. Alternates:

1.02 REFERENCES

A. ASTM International (ASTM):
   1. ASTM C475 Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board.
   2. ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
   3. ASTM C645 Standard Specification for Nonstructural Steel Framing Members.
   4. ASTM C1002 Standard Specifications for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood.
   5. ASTM C1047 Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base.
   6. ASTM C1396 Standard Specification for Gypsum Board.
   7. ASTM C1658 Standard Specification for Glass Mat Gypsum Panels.
   8. ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.

9. ASTM D6329 Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers**.**
10. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.

B. Gypsum Association (GA): GA-214 Levels of Gypsum Board Finish.

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: 0.
2. Smoke development: 0.

1.05 WARRANTY

A. Provide products that offer twelve months of coverage against in-place exposure damage (delamination, deterioration and decay) commencing with the date of installation of the product in such structure.

B. Manufacturer's Warranty: Five years against manufacturing defects from the date of purchase of the product for installation

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. Metal Framing:
   1. CLARKWESTERN Building Systems.
   2. Telling Industries.
   3. Dietrich Metal Framing.
   4. Marino\WARE.

B. Gypsum Board:
   1. Georgia-Pacific Gypsum LLC.
      a. Shaftliner Board: DensGlass Shaftliner.
      b. Paper Faced Gypsum Board: 1/2 inch ToughRock Gypsum Board.
      c. Fiberglass-Mat Faced Gypsum Board: 1/2 inch DensArmor Plus.
   2.
   3.

THIS ARTICLE INCLUDES GENERIC DESCRIPTIONS OF GYPSUM BOARD SHAFTWALL 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. Metal Framing:
   1. C-Track: ASTM C645, galvanized steel.

AVAILABLE WIDTH IS 2 INCHES, IF NOT INDICATED ON THE DRAWINGS, INSERT REQUIRED WIDTH BELOW.

a. Width: As indicated on the drawings.
b. Gauge: 25.

2. H-Studs: ASTM C645, galvanized steel.

AVAILABLE WIDTH IS 2 INCHES, IF NOT INDICATED ON THE DRAWINGS, INSERT REQUIRED WIDTH BELOW.

a. Width: As indicated on the drawings.
b. Gauge: 25.

EDIT LIST BELOW TO CONFORM TO PROJECT REQUIREMENTS.

B. Gypsum Board:
1. Shaftliner Board:
a. Material Standard: Comply with applicable sections of ASTM C1396 and ASTM C1658.
b. Thickness: 1 inch.
c. Width: 2 feet.
d. Length: 8 feet - 12 feet.
e. Weight: 4.0 lb/sq. ft.
f. Edges: Double bevel.
g. R-Value (ASTM C518): Not less than 0.65.
h. Mold Resistance (ASTM D3273): 10, in a test as manufactured.
i. Microbial Resistance (ASTM D6329, GREENGUARD 3-week protocol): Will not support microbial growth.
j. Acceptable Products:
1) DensGlass Shaftliner.
2)
3)

PARAGRAPH BELOW IS 1/2 INCH TOUGHROCK GYPSUM BOARD.

2. Paper Faced Gypsum Board:
a. Thickness: 1/2 inch.
b. Width: 4 feet.
c. Length: 8 feet - 16 feet.
d. Weight: 1.65 lb/sq. ft.
e. Edges: [Tapered] [Square] [Tapered with round edges].
f. Flexural Strength, Parallel (ASTM C1396): Not less than 40 lbf.
g. Flexural Strength, Perpendicular (ASTM C1396): Not less than 110 lbf.
h. R-Value (ASTM C518): 0.45.
i. Nail Pull Resistance (ASTM C1396): Not less than 80 lbf.

j. Hardness, Core, Edges, and Ends (ASTM C1396): Greater than 15 lbf.
k. Acceptable Products:
1) 1/2 inch ToughRock Gypsum Board.
2)
3)

PARAGRAPH BELOW IS 1/2 INCH DENSARMOR PLUS.

3. 1/2 inch Fiberglass-Mat Faced Gypsum Board:
a. Thickness: 1/2 inch.
b. Width: 4 feet.
c. Length: 8 feet - 12 feet.
d. Weight: 2.02 lb/sq. ft.
e. Edges: Tapered.
f. Surfacing: Coated fiberglass mat on face, back, and long edges.
g. Flexural Strength, Parallel (ASTM C1396, C1658): Not less than 80 lbf.
h. Flexural Strength, Perpendicular (ASTM C1396, C1658): Not less than 100 lbf.
i. R-Value (ASTM C518): 0.56.
j. Nail Pull Resistance (ASTM C1396, C1658): Not less than 80 lbf.
k. Hardness, Core, Edges, and Ends (ASTM C1396): Greater than 15 lbf.
l. Water Absorption (ASTM C1396): 5 percent of weight, maximum.
m. Mold Resistance (ASTM D3273): 10, in a test as manufactured.
n. Microbial Resistance (ASTM D6329): Will not support microbial growth.
o. Acceptable Products:
1) 1/2 inch DensArmor Plus, Georgia-Pacific Gypsum.
2)
3)

2.03 ACCESSORIES

A. Screws: ASTM C1002.

B. Trim: ASTM C1047.

SELECT TRIM MATERIAL AND SHAPES REQUIRED BELOW.

1. Material: [Galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized steel sheet] [Galvanized or aluminum-coated steel sheet or rolled zinc] [Plastic] [Paper-faced galvanized steel sheet].
2. Shapes:
a. Cornerbead.
b. Bullnose bead.

c. L-C bead, J-shaped with exposed long flange to receive joint compound.
d. L bead, L-shaped with exposed long flange to receive joint compound.
e. U-bead, J-shaped with exposed short flange to receive joint compound.
f. Control joint.
g. Curved-edge cornerbead with notched or flexible flanges.

C. Joint Tape: ASTM C475, 2-1/6-inch-wide paper tape.

D. Joint Compound: ASTM C475, all-purpose, ready-mixed, vinyl-based.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions: Verify that site conditions and substrates are acceptable to begin the work of this Section.

3.02 INSTALLATION

A. General: Comply with manufacturer's recommendations for installation of metal framing and gypsum board for area separation walls.

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

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

SELECT LEVEL REQUIRED BELOW. IF MORE THAN ONE LEVEL IS REQUIRED, ADD AN INDICATION OF LOCATIONS TO THE PARAGRAPHS RETAINED BELOW OR ADD A SCHEDULES ARTICLE TO INDICATE LOCATIONS.

B. Finishing: In accordance with GA-214, Level as indicated below:
   1. [Level 0] [Level 1] [Level 2] [Level 3] [Level 4] [Level 5].

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.

RETAIN ARTICLE BELOW IF A SCHEDULE IS REQUIRED FOR FINISH LEVELS.

3.04 SCHEDULES

END OF SECTION 09 21 16.33