SECTION 09 2900

GYPSUM BOARD

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Acoustical insulation.
2. Gypsum board.
3. Cementitious backer units.
4. Taping and bedding of gypsum board.

B. Related Sections:
1. Division 01: Administrative, procedural, and temporary work requirements.
2. Section 07 9200 - Joint Sealers.

1.2 REFERENCES

A. American National Standards Institute (ANSI):
1. A108.11 - Interior Installation of Cementitious Backer Units.
2. A118.9 - Test Methods and Specifications for Cementitious Backer Units.

B. ASTM International (ASTM):
1. C475 - Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board.
2. C514 - Standard Specification for Nails for the Application of Gypsum Wallboard.
3. C665 - Standard Specification for Mineral Fiber Blanket Thermal Insulation for Wood Frame and Light Construction Buildings.
4. C1002 - Standard Specification for Steel Drill Screws for the Application of Gypsum Board.
5. C1047 - Standard Specifications for Accessories for Gypsum Wallboard and Gypsum Veneer Base.
6. C1396 - Standard Specification for Gypsum Board.

C. Gypsum Association (GA):
1. GA-214 - Levels of Gypsum Board Finish.
2. GA-216 - Recommended Specifications for the Application and Finishing of Gypsum Board.
3. GA-600 - Fire Resistance Design Manual.

D. Underwriters Laboratories, Inc. (UL) - Fire Resistance Directory.

1.3 SUBMITTALS

A. Submittals for Review:
1. Product Data: Illustrate panel product types, thicknesses, and locations; acoustical insulation; and accessories.

1.4 QUALITY ASSURANCE

A. Fire Resistance Ratings:
1. Construct assemblies to achieve fire resistance ratings indicated on Drawings, in accordance with UL design number.
2. If requirements of assembly numbers referenced conflict with Contract Document requirements, conform to assembly requirements.

1.5 PROJECT CONDITIONS

A. Do not install gypsum board until building is substantially weather-tight.

B. Maintain temperature in spaces in which work is being performed above 50 degrees F during and after installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers:
1. CertainTeed Gypsum, Inc. (www.certainteed.com)
2. GP Gypsum Corporation. (www.gp.com)
3. National Gypsum Co. (www.nationalgypsum.com)
4. Temple Inland. (http://www.templeinland.com/buildingproducts/gypsum)
5. United States Gypsum Co. (www.usg.com)

2.2 MATERIALS - GYPSUM PANELS

A. Regular Gypsum Board: ASTM C1396; 48 inches wide x thickness indicated, maximum practical length, tapered edge.

B. Water Resistant Gypsum Board: ASTM C1396; 48 inches wide x thickness indicated, maximum practical length, water resistant; apply to walls inside bathrooms.

C. Fire Resistant, Gypsum Board: ASTM C1396, Type X; 48 inches wide thickness indicated, maximum practical length, water resistant; apply to fire rated walls on both sides of corridor and stair enclosure where indicated.

2.3 ACCESSORIES

A. Fasteners: ASTM C1002, Type W screws, minimum 5/8 inch penetration into framing.

B. Acoustical Insulation: ASTM C665, Type I, glass fiber composition, unfaced.

C. Adhesive:
1. Type recommended by gypsum panel manufacturer.

D. Trim Accessories: ASTM C1047.
1. Material: Formed steel, minimum 26 gage core steel, hot dip galvanized finish, expanded flanges.

E. Acoustical Sealer: Specified in Section 07 9200.

F. Joint Treatment Materials:
1. Reinforcing tape and joint compound; ASTM C475.

PART 3 - EXECUTION

3.1 INSTALLATION OF GYPSUM PANELS

A. Install panels and accessories in accordance with ASTM C754, GA-216, and manufacturer's instructions.

B. Accurately cut panels to fit around openings and projections. Do not tear face paper or break gypsum core.

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Dec 2009

C. Apply panels at non fire-rated assembly in most economical manner, with ends and edges occurring over supports.

D. Apply panels at fire-rated assemblies as required by design assembly.

E. Stagger joints on opposite sides of partitions.

F. Do not locate joints to align with edges of openings unless a control joint is installed.

G. Mechanically fasten single layer panels to framing. Place fasteners minimum 3/8 inch from edges of panels; drive heads slightly below surface. Stagger fasteners at abutting edges.

H. All gypsum board ceilings shall have “slick” finish.

I. At deflection compensating head tracks, cut panels 1/2 inch short of structure at head; do not secure panels to top runner channel.

J. Treat cut edges and holes in moisture resistant gypsum board with joint sealer.

K. Where recessed items occur in fire rated partitions, box item on all sides with gypsum board as required to maintain continuity of fire rating.

L. Carry over pipes, wiring, boxes, and other construction without voids.

M. Mechanically fasten panels to framing at maximum 12 inches on center.

3.2 INSTALLATION OF ACCESSORIES

A. Install in accordance with manufacturer's instructions.

B. Install corner reinforcement at outside corners. Use single lengths where length of corner does not exceed standard length.

C. Install casings where indicated and where gypsum board abuts dissimilar materials or stops with edge exposed.

D. Install control joints at ceilings:
1. At maximum 50 feet on center.
2. Where ceiling framing changes direction.

E. Install control joints at walls and partitions:
1. At changes in backup material.
2. At maximum 30 feet on center.
3. Above both jambs of openings in partitions.

3.3 JOINT TREATMENT

A. Treat joints and fasteners in gypsum board in accordance with GA-214.

B. Levels of Finish:
1. Surfaces in plenums, service corridors, janitor closets: Level 1 finish.
2. Surfaces to receive tile or stone: Level 2 finish.
3. Surfaces to receive flat, eggshell paints or wall coverings: Level 4 finish.
4. Surfaces to receive semi-gloss or gloss paints: Level 5 finish.

END OF SECTION