

SAMPLE STANDARD SPECIFICATION

©2007 Focus Collaborative, Inc – Specification and Quality Assurance Consultants
156 Prospect Avenue
Lansdale, PA 19446
Phone: 215.412.0601 Fax: 215.412.0602
2231 Route 50, P.O. Box 248
Tuckahoe, NJ 08250
Phone: 609.628.2390 Fax: 609.628.2393

SECTION 09 21 16

GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Metal stud wall framing.
 - 2. Metal ceiling framing.
 - 3. Shaft wall system.
 - 4. Gypsum board and joint treatment.
 - 5. Gypsum sheathing.
 - 6. Cementitious backer board.
 - 7. Acoustic insulation and sealant.

1.2 PERFORMANCE REQUIREMENTS

Please review performance requirements for metal studs, and revise accordingly.

- A. Stud Selection: Select stud gage and yield strength so maximum unbraced span does not exceed heights permitted by SSMA with maximum deflection of 1/240 for 5 psf uniform load.
- B. Conform to applicable codes for fire rated assemblies.
- C. Acoustic attenuation for identified interior partitions.
- D. Shaft wall for identified interior partitions.

1.3 SUBMITTALS

- A. Section 01330 - Submittal Procedures: Requirements for submittals.
- B. Product Data: Submit data on metal framing, gypsum board types, joint tape, joint compound, and acoustic materials.

1.4 QUALITY ASSURANCE

- A. Perform Work in accordance with GA-214, GA-216 and GA-600.

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1.5 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.
- B. Installer: Company specializing in performing Work of this section with minimum three years documented experience.

PART 2 PRODUCTS

2.1 GYPSUM BOARD ASSEMBLIES

- A. Framing Manufacturers:
 - 1. Dale/Incor.
 - 2. Dietrich Industries.
 - 3. Superior Steel Studs Inc.
 - 4. Substitutions: Section 01600 - Product Requirements.
- B. Direct Suspension System Manufacturers:
 - 1. United States Gypsum Company.
 - 2. Chicago Metallic Corp.
 - 3. National Rolling Mills Co.
 - 4. Substitutions: Section 01600 - Product Requirements.
- C. Gypsum Board and Joint Treatment Manufacturers:
 - 1. United States Gypsum Company.
 - 2. Gold Bond Building Products.
 - 3. Georgia Pacific.
 - 4. Substitutions: Section 01600 - Product Requirements.
- D. Acoustic Insulation Manufacturers:
 - 1. United States Gypsum Company; Thermafiber Sound Attenuation Fire Blankets (SAFB).
 - 2. Owens Corning; Sound Attenuation Batts/MW or Sound Attenuation Batts.
 - 3. CertainTeed; CertaSound Sound Attenuation Batts.
 - 4. Manville; Sound Shield Sound control Batts.
 - 5. Substitutions: Section 01600 - Product Requirements.

2.2 COMPONENTS

- A. Framing Materials: Studs and Tracks: ASTM C645; galvanized sheet steel, minimum 25 gage (0.55 mm) , size as indicated on Drawings, 'C' shape.
- B. Furring, Framing, and Accessories: ASTM C645.
- C. Fasteners: ASTM C1002.

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- D. Anchorage to Substrate: Tie wire, nails, screws, and other metal supports, of type and size to suit application; to rigidly secure materials in place.
- E. Adhesive: ASTM C557.
- F. Ceiling Suspension System Framing:
 - 1. Channels: Hot or cold rolled; G90 hot dipped galvanized steel channel; minimum 1-1/2 inches (38 mm) size and minimum 0.475 lb/ft (700 g/m) in accordance with ASTM C754.
 - 2. Fasteners: ASTM C646.
 - 3. Hanger Wire: ASTM A641 soft temper, Class 1 galvanized steel, minimum 8 gage (4.3 mm).
 - 4. Hanger Rods: Mild steel rod, with zinc coating, minimum 7/32 inches (5.5 mm) diameter.
 - 5. Angle Hangers: minimum 7/8 x 7/8 inches (22 x 22 mm), 16 gage (1.6 mm thick) ASTM A653 G90 galvanized steel formed angles with 5/16 inches (8 mm) diameter bolted connections.
 - 6. Anchorage Devices: Screws, clips, bolts, concrete inserts, and other devices of type and size to suit application; to rigidly secure materials in place. Size devices for 5x calculated load for concrete inserts and 3x calculated load for other devices.
- G. Gypsum Board Materials: Thickness as indicated on Drawings; maximum available length in place; ends square cut, tapered edges, unless specified otherwise.
 - 1. Standard Gypsum Board: ASTM C36.
 - 2. Fire Rated Gypsum Board: ASTM C36; fire rated type.
 - 3. Moisture Resistant Gypsum Board: ASTM C630; standard and fire rated type as indicted on Drawings.
 - 4. Exterior Gypsum Soffit Board: ASTM C931/C931M; standard and fire rated type as indicted on Drawings.
 - 5. Gypsum Backing Board: ASTM C442; standard and fire rated,; square edges, ends square cut, maximum available size in place.
 - 6. Gypsum Sheathing Board: ASTM C79; moisture resistant and fire resistant type; ends square cut, square edges; water repellent paper faces.
 - 7. Gypsum Coreboard: ASTM C442, 1 inch (25 mm) thick, maximum available size in place; square edges, ends square cut.
 - 8. Tile Backer Board: ASTM C1178; maximum available length in place; ends square cut, tapered edges; Dens Shield manufactured by Georgia Pacific.
 - 9. Cementitious Backing Board: High density, glass fiber reinforced, Durock manufactured by United States Gypsum Company.

2.3 ACCESSORIES

- A. Acoustical Insulation: ASTM C665; preformed fiberglass, friction fit type without integral vapor barrier membrane, 2-1/2 inch thick, unless otherwise indicated on Drawings.
- B. Acoustical Sealant: Non-hardening, non-skinning, for use in conjunction with gypsum board.
- C. Corner Beads: Metal.

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- D. Edge Trim: GA 201 and GA 216; plastic, type to suit application.
- E. Joint Materials: ASTM C475; reinforcing tape, joint compound, adhesive, water, and fasteners.
- F. Fasteners: ASTM C1002 Type S12 hardened screws.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01300 - Administrative Requirements: Coordination and project conditions.
- B. Verify that site conditions are ready to receive work and opening dimensions are as indicated on shop drawings.

3.2 INSTALLATION

- A. Install studs in accordance with ASTM C754 and manufacturer's instructions.
- B. Metal Stud Spacing: 16 inches (400 mm) on center.
- C. Extend stud framing to ceiling only. Attach ceiling runner securely to acoustic ceiling track or ceiling framing in accordance with details indicated.
- D. Refer to Drawings for indication of partitions extending stud framing through the ceiling to the structure above. Maintain clearance under structural building members to avoid deflection transfer to studs. Provide extended leg ceiling runners.
- E. Door Opening Framing: Install double studs at door frame jambs.
- F. Blocking: Bolt or screw steel channels to studs. Install blocking for support of plumbing fixtures, toilet partitions, wall cabinets, toilet accessories and fire extinguisher cabinets.
- G. Erect wall furring for direct attachment to concrete masonry walls.
- H. Erect furring channels horizontally; space maximum 24 inches (600 mm) on center, not more than 4 inches (100 mm) from floor and ceiling lines. Secure in place on alternate channel flanges at maximum 24 inches (600 mm) on center.
- I. Place acoustical insulation in partitions tight within spaces, around cut openings, behind and around electrical and mechanical items within or behind partitions, and tight to items passing through partitions.
- J. Install acoustical sealant at gypsum board perimeter at:
 - 1. Framing: One bead.
 - 2. Face Layer Gypsum Board: One bead.

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- 3. Seal gypsum board penetrations at conduit, pipe, ductwork, rough-in boxes, and other items.
 - K. Install gypsum board in accordance with GA 201 and GA 216 and manufacturer's instructions.
 - L. Erect single layer gypsum board in most economical direction, with ends and edges occurring over firm bearing.
 - M. Shaft Wall Framing: To GA-600 requirements.
 - N. Use screws when fastening gypsum board to framing.
 - O. Ceiling Framing: Install in accordance with ASTM C754.
 - P. Place corner beads at external corners. Use longest practical length. Place edge trim where gypsum board abuts dissimilar materials.
 - Q. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes in accordance with manufacturer's instructions.
 - R. Feather coats onto adjoining surfaces so that camber is maximum 1/32 inch (0.8 mm).
 - S. Sanding is not required at surfaces above finished ceilings.
- 3.3 TOLERANCES
- A. Maximum Variation from True Flatness: 1/8 inch in 10 feet (3 mm in 3 m) in any direction.

END OF SECTION