

## **PART 1 GENERAL**

### **1.1 SUMMARY**

- A. Section includes gypsum board and joint treatment; cementitious backer board; smooth and textured finishes.
- B. Related Sections:
  - 1. Section 06100 - Rough Carpentry: Building wood framing system.

### **1.2 REFERENCES**

- A. American Society for Testing and Materials:
  - 1. ASTM C36 - Standard Specification for Gypsum Wallboard.
  - 2. ASTM C442 - Standard Specification for Gypsum Backing Board and Coreboard.
  - 3. ASTM C475 - Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board.
  - 4. ASTM C630/C630M - Standard Specification for Water-Resistant Gypsum Backing Board.
  - 5. ASTM C840 - Standard Specification for Application and Finishing of Gypsum Board.
  - 6. ASTM C1002 - Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases.
- B. Gypsum Association:
  - 1. GA 214 - Recommended Levels of Gypsum Board Finish.
  - 2. GA 216 - Application and Finishing of Gypsum Board.
- C. Underwriters Laboratories Inc.:
  - 1. UL - Fire Resistance Directory.

### **1.3 PERFORMANCE REQUIREMENTS**

- A. Conform to applicable UBC code for fire rated assemblies in conjunction with Sections 06100 as follows:
  - 1. Fire Rated Partitions: Listed assembly by UL.
  - 2. Fire Rated Ceiling and Soffits: Listed assembly by UL.
  - 3. Fire Rated Structural Column Framing: Listed assembly by UL.
  - 4. Fire Rated Structural Beam Framing: Listed assembly by UL.

### **1.4 SUBMITTAL**

- A. Section 01330 - Submittal Procedures: Submittal procedures.
- B. Product Data: Submit data on gypsum board, joint tape and metal accessories.

### **1.5 QUALITY ASSURANCE**

- A. Perform Work in accordance with ASTM C840.

### **1.6 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.

### **1.7 MOCKUP**

- A. Not Required.

## **PART 2 PRODUCTS**

### **2.1 GYPSUM BOARD ASSEMBLIES**

- A. Manufacturers:
  - 1. G-P Gypsum Corp.
  - 2. National Gypsum Co.
  - 3. United States Gypsum Co.
  - 4. Domtar Gypsum
  - 5. Substitutions: Section 01600 - Product Requirements.

### **2.2 COMPONENTS**

- A. Framing Materials:
  - 1. Light Gauge Steel Framing: ASTM C645 20 gauge steel studs and tracks.
  - 2. Steel Sheet Backing: 12 gage galvanized sheet steel.
  - 3. Fasteners: ASTM C1002, 1 inch Type 'S' Bugle Head for metal framing.
  - 4. Hangar Wire: 9 gage galvanized annealed steel wire.
  - 5. Tie Wire: 18 gage galvanized annealed steel wire.
- B. Gypsum Board Materials:
  - 1. Fire Rated Gypsum Board: ASTM C36; fire resistive type, UL rated; 5/8 inch thick, maximum available length in place; ends square cut, tapered and beveled edges.
  - 2. Moisture Resistant Gypsum Board: ASTM C630, 5/8 inch thick, maximum available length in place; ends square cut, tapered and beveled edges.
  - 3. Gypsum Backing Board: ASTM C442; fire rated type; 5/8 inch thick; vee grooved edges, maximum length in place.
  - 4. Cementitious Backing Board: High density, glass fiber reinforced, 5/8 inch thick. Georgia Pacific Corporation Dens Shield tile backer, Fin Pan Util-A-Crete tile backer or approved equal.
  - 5. High-Abuse Gypsum Board:
    - a. ASTM C840, 5/8 inches thick, tapered edges meeting flame spread requirements of ASTM E84.
    - b. A gypsum core wall panel with additives to enhance fire resistance, surface indentation and impact resistance of the core and surfaced with abrasion resistant paper on front and long edges with heavy liner paper bonded to the back side and complying with ASTM C36/C1396 Type X.

### **2.3 ACCESSORIES**

- A. Acoustic Sealant: Type specified in Section 07900 - Joint Sealers.
- B. Corner Beads: Metal. USG 800 galvanized.
- C. Edge Trim: USG 200-B galvanized.
- D. Control Joint: USG No. 093 galvanized.
- E. Special Trim: Fry aluminum Special Sections, paint finish to match grid.
- F. Joint Materials: ASTM C475; reinforcing tape, joint compound, adhesive, and water.
- G. Textured Finish Materials: Latex based texturing material.

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Section 01300 - Administrative Requirements: Coordination and project conditions.
- B. Verify site conditions are ready to receive work and work may be installed in accordance with applicable codes, the original design and referenced standards.

- C. Beginning of installation means acceptance of substrate.
- D. Verify backing is in place for attaching hardware, specialties and accessories.

### **3.2 INSTALLATION**

- A. Gypsum Board Installation:
  - 1. Install gypsum board in accordance with GA-216 and GA-600.
  - 2. Unless otherwise noted, erect single layer fire rated gypsum board horizontally, with edges and ends occurring over firm bearing.
  - 3. Use screws when fastening gypsum board to metal and wood furring or framing.
  - 4. Double Layer Applications: Use gypsum backing board for first layer, placed perpendicular parallel to framing or furring members. Use fire rated gypsum backing board for fire rated partitions and ceilings. Install in accordance with manufacturers recommendations.
  - 5. Treat cut edges and holes in moisture resistant gypsum board with sealant.
  - 6. Place corner beads at external corners as indicated on Drawings. Use longest practical length. Place edge trim where gypsum board abuts dissimilar materials.
  - 7. Install cementitious backing board over wall framing behind base materials as noted on Finish Schedule.
  - 8. Provide one-hour rated gypsum board boxes around recessed light fixtures in rated gypsum board ceilings.
  - 9. Caulking: Install full sealant bead at bottom of gypsum panels and between panels and other adjacent materials.
  - 10. Caulk all penetrations of panels by conduits, pipes, ductwork, rough-in boxes and accessories.
- B. Joint Treatment:
  - 1. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
  - 2. Gypsum wallboard shall be finished as scheduled.
  - 3. Feather coats onto adjoining surfaces so that camber is maximum 1/16 inch.
  - 4. Fire tape only gypsum wallboard surfaces above ceilings and unexposed surfaces. Trowel firetaping to remove rough cement texture, continue exposed finish texture 3 inches minimum past ceilings. Finish walls behind cabinets and all applied fixtures and equipment.
  - 5. Fill and finish joints and corners of cementitious backing board.

### **3.3 ERECTION TOLERANCES**

- A. Section 01400 - Quality Requirements: Tolerances.
- B. Maximum Variation of Finished Gypsum Board Surface from Flat Surface: 1/8 inch in 10 feet.

### **3.4 SCHEDULES**

- A. General:
  - 1. Level 2: Above finished ceilings concealed from view, and ceramic tile substrates.
  - 2. Level 4: Walls and ceilings exposed to view except as noted, wallcovering substrates and surfaces receiving texture.
- B. Textures:
  - 1. Smooth.

END OF SECTION