

ToughRock® Architectural Specifications

Part 1 – General

1.0 Description of Work

- A. Types of Work: The types of work herein specified include the following:
1. Gypsum drywall applied to steel stud framing system.
 2. Gypsum drywall applied to wood framing.
 3. Gypsum drywall backing board as substrate for other finishes.
 4. Gypsum drywall applied to solid substrates.
 5. Gypsum drywall applied to ceiling and soffits.
 6. Gypsum drywall finishing including joint tape and compound treatment.

1.1 Quality Assurance

- A. Fire-Resistance Ratings: Where gypsum drywall assemblies with fire-resistance ratings are indicated, provide G-P Gypsum system that provides the required rating.
1. Provide fire-resistance rated assemblies identical to those indicated by reference to GA File Nos. in GA Fire Resistance Design Manual or to design designations in UL Fire Resistance Directory, Warnock Hersey (WHI) listing, or in listing of other testing and agencies acceptable to authorities having jurisdiction.

1.2 Qualifications

All gypsum and joint treatment materials shall be manufactured by G-P Gypsum Corporation, unless otherwise indicated. All materials shall be installed in accordance with printed installation instructions by G-P Gypsum.

1.3 Submittals

Product Data: Submit G-P Gypsum product specifications and installation instructions for each gypsum drywall component, including other data as may be required to show compliance with these specifications.

1.4 Delivery, Storage and Handling

- A. Deliver materials in original packages, containers or bundles bearing G-P Gypsum Corporation brand name and identification.
- B. Store materials inside, level, under cover. Keep dry. Protect from weather, other elements and damage from construction operations and other causes.
- C. Handle gypsum boards to prevent damage to edges, ends or surfaces. Protect metal accessories and trim from being bent or damaged.

1.5 Project Conditions

- A. Environmental Requirements General: Comply with requirements of gypsum board application standards and recommendations of G-P Gypsum for environmental conditions before, during and after application of gypsum board.
- B. Cold Weather Protection: When outdoor temperature is below 50°F, maintain building working temperature of not less than 50°F for a period of 48 hours prior to, during and following application of gypsum board and joint treatment materials or bonding of adhesives.
- C. Ventilation: Ventilate building spaces as required to remove excess moisture that would prevent drying of joint treatment material immediately after its application.

Part 2—Products

2.0 Materials — G-P Gypsum

- A. ToughRock® 5/8" Fireguard® gypsum board.
- B. ToughRock 1/2" Fireguard C gypsum board.
- C. ToughRock 5/8" Fireguard C gypsum board.
- D. ToughRock 1/4" Sound Deadening board.
- E. 5/8" DensGlass® Gold Fireguard sheathing.
- F. 5/8" Dens-Shield® Fireguard tile backer.

2.1 Metal studs

Track, resilient channels, screws and other components including insulation as recommended by G-P Gypsum. Provide studs and tracks of dimension and gauge for required assembly and fire rating.

2.2 Trim Accessories

General: Provide standard trim accessories as recommended by G-P Gypsum of types indicated for drywall work. Provide galvanized steel unless otherwise indicated.

2.3 Joint Treatment Materials

- A. Joint Tape: Georgia-Pacific tape
- B. Joint Compound: Georgia-Pacific Ready-Mix or All-Purpose Joint Compounds or setting type joint compounds.

2.4 Miscellaneous Materials

General: Provide auxiliary materials for gypsum drywall work of the type and grade recommended by G-P Gypsum to include screws, nails, adhesives, sealants, sound blankets and insulation, including ToughRock Fire-Halt Sealant Setting Compound.

2.5 Texture Finish Materials

- A. G-P Wall Texture: Non-aggregated compound.
- B. G-P Ceiling Texture: Vermiculite, medium or coarse texture.
- C. G-P Premixed Ceiling Texture: Fine, medium or coarse perlite aggregate.

2.6 Gypsum Drywall System

System Type: Provide G-P Gypsum Corporation drywall system complying with requirements indicated.

Part 3—Execution

3.0 Installation

General: Follow G-P Gypsum recommendations for installation of metal support systems to include ceiling suspension system, direct hung metal support system and wall support system.

3.1 Installation of Gypsum Board

- A. General: Gypsum Board Application and Finishing Standards: ASTM C 840, GA-216 and GA-650.
- B. Install sound attenuation blankets where indicated.
- C. Install ceiling boards in the direction that will minimize the number of end-butt joints. Stagger end joints at least 1'.
- D. Install gypsum board on walls vertically to avoid end-butt joints. At stairwells and similar high walls, install boards horizontally with end joints staggered over studs, except where local codes or fire-rated assemblies require vertical application.
- E. Install gypsum board with face side out. Do not install damaged or damp boards.

- F. Locate edge or end joints over supports. Stagger vertical joints over different studs on opposite sides of wall.

3.2 Gypsum Drywall Application

- A. Single-Layer Application: Apply gypsum board on ceilings prior to application of the walls. (See ASTM C 840)
- B. On Walls: Apply gypsum board vertically or horizontally, providing sheet lengths that will minimize end joints.
- C. Double-Layer Application: Install gypsum board for base layer and exposed gypsum board for face layer.
- D. On Ceilings: Apply base layer prior to base layer application on walls; apply face layers in same sequence. Offset joints between layers at least 1'. Apply base layers at right angles to supports unless otherwise indicated.
- E. On Walls: Apply base layer and face layers vertically with joints of base layer over supports and face layer joints offset at least 10" with base layer joints.
- F. Direct-Bonding to Substrate: Comply with G-P gypsum board recommendations. Brace or fasten gypsum board until fastening adhesive has set. Gypsum board should be mechanically fastened at top and bottom of each sheet.
- G. Exterior Soffits and Ceilings: Install exterior gypsum board perpendicular to supports; stagger end joints over supports. Install with 1/4" gap where boards abut other work.

3.3 Installation of Accessories

General: Use the same fasteners to anchor trim accessory flanges as required to fasten gypsum board to the supports. Otherwise, fasten flanges by nailing or stapling in accordance with G-P Gypsum instructions and recommendations.

3.4 Drywall Finishing

- A. General: Apply treatment at gypsum board joints, flanges of trim accessories, penetrations, fastener heads and surface defects. Prefill open joints and rounded or beveled edges using type of compound recommended by G-P Gypsum.
- B. Levels of Finish: The recommended levels of finish of gypsum board for walls and ceilings are contained within GA-214: Levels of Gypsum Board Finish and ASTM C 840.

3.5 Application of Texture Finishes

Finish Application: Mix and apply finish to drywall and other surfaces in strict accordance with G-P Gypsum instructions.

3.6 Protection of Work

Provide protection that ensures gypsum drywall work will remain without damage or deterioration at time of substantial completion

Technical Service Hotline 1.800.225.6119 or www.gpgypsum.com

Fire Safety Information: www.gp.com/firesafety

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