

GyProc® GYPSUM BOARD TECHNICAL DATA AND SPECIFICATIONS

MANUFACTURER

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DESCRIPTION

GyProc® gypsum board has a noncombustible, dimensionally stable, gypsum core. The surfacings on both faces and on the long edges are 100% recycled paper. The front face (side to be finished) and the long edges are an ivory color; the back face paper is gray. The short edges are square cut, smooth finished with no paper facing.

PRIMARY USES

GyProc gypsum board is a wall or ceiling covering material for use in new building construction or renovation work. It is designed for direct mechanical attachment – screws or nails or adhesive attached – to wood and metal framing or existing surfaces. It may also be used as a covering material for flat planes or curved structures; the material may be formed to a curve with a short radius.

GyProc gypsum board is manufactured with an ivory colored paper surface designed to receive joint treatment then paint, wall covering, textured coatings or other finish treatment.

LIMITATIONS

GyProc gypsum board is a nonstructural product and should not be used as a nailing base to support heavy wall mounted objects.

It is intended for interior applications only; it must be kept dry and not used where exposure to moisture is extreme or continuous.

Do not use GyProc gypsum Board where there is prolonged exposure to temperature exceeding 125°F and/or continuous exposure to extreme humidity; e.g. located adjacent to wood burning stoves, heating appliances, saunas or steam rooms.

Consult manufacturer's literature when water based textures are to be used.

APPLICABLE STANDARDS

ASTM C 36 and Federal Specification SS-L-30D, Type III, Grade R, CSA A82.27

BUILDING CODE CONFORMITY

GyProc gypsum board conforms to the requirements of major building codes.

SIZES AND EDGES

Thickness (nominal): 1/4"

Width (nominal): 4'

Length (standard): 8'-12'

Thickness (nominal): 3/8"

Width (nominal): 4'

Length (standard): 8'-14'

Thickness (nominal): 1/2"

Width (nominal): 4'

Length (standard): 6'-16'

Thickness (nominal): 5/8"

Width (nominal): 4'

Length (standard): 8'-16'

Edges: 1/4" and 3/8" tapered. 1/2" and 5/8" square, tapered or tapered with round edge.

SUPPLEMENTAL MATERIALS

Fasteners: Nails, screws or adhesive.

Joint System: Tape, bedding compound and topping compound.

Trims: Corner bead, edge/casing bead, control joints, floor/ceiling runners and channels.

Wall and ceiling textures.

Sealants.

TECHNICAL DATA

SURFACE BURNING CHARACTERISTICS

Flame spread rating of 15 and smoke developed 0, when tested in accordance with ASTM E 84.

FIRE-RESISTANCE RATING

Fire-resistance ratings are determined by tests made on assemblies of specific materials. Caution must be used to ensure that each component of the construction design meets the specified and tested assembly. Test reports or listings are available upon request.

SOUND CONTROL

Sound rated assemblies require sealing at top, bottom, intersections and other penetrations to ensure the effectiveness of the assembly and obtain desired STC rating. Test reports are available upon request.

INSTALLATION

APPLICATION STANDARDS

GyProc regular gypsum board shall be installed according to the Gypsum Association Publication GA-216 "Recommended Specifications for the Application and Finishing of Gypsum Board" and ASTM C 840 "Standard Specification for Application and Finishing of Gypsum Board" for non-fire rated construction.

However, to achieve a designated fire-resistance rating, installation and details must be consistent with tested assemblies as published in the Gypsum Association Fire Resistance Design Manual GA-600, UL/ULC Fire Resistance Directory and Warnock Hersey Listing Book.

METHODS

For non-rated construction, installation methods for single or multi-layer construction involving attachment using mechanical fasteners, adhesive or adhesive with supplemental fasteners are numerous and varied. Refer to Gypsum Association publications for application and installation details.

The installation method selected must be planned carefully to minimize the number of end joints. GyProc gypsum board can be cut to the necessary size by scoring the face paper with a sharp knife, then snapping away from the cut face. The back paper is then cut or broken by snapping the board in the opposite direction. All cut edges and ends are smoothed by rasping or other suitable methods to form tight-fitting joints when installed.

For rated assemblies, appropriate methods of installation are based on the desired fire-resistance rating or specified STC value required. These ratings and values require that details of the tested assemblies be followed. In addition to these details, the installation methods outlined in Gypsum Association Publications GA-201 and GA-216 will facilitate optimum performance through preferred construction practices.

SAFETY

During installation involving cutting, scoring and breaking, safety glasses are recommended. If the work environment is dusty, a NIOSH approved respirator should be worn. Do not use a power saw.

HANDLING PRECAUTIONS

Stack GyProc gypsum board on a flat, level surface. As individual sheets are removed for installation, they should be raised up on edge carefully and carried in a vertical position. Appropriate handling is also outlined in Gypsum Association Publications GA-216 and GA-801.

Take care to avoid impact, undue flexing and subsequent damage to board edges, ends and corners. Avoid scuffing the face to be finished.

MATERIAL SAFETY DATA SHEET

Material Safety Data Sheet (MSDS) is available upon request.

For more information, contact the local G-P Gypsum representative nearest you:

United States: (800) 876-4746 Midwest; (800) 327-2344 South; (800) 947-4497 Northeast; (800) 824-7503 West

Canada: (800)563-1696 Atlantic Provinces; (800) 361-0486 Quebec; (800) 387-6823 Ontario; (800) 661-6589 Prairies; (800) 663-6402 British Columbia

For technical assistance, contact the G-P Gypsum Technical Hotline:

800-225-6119

ARCHITECTURAL SPECIFICATIONS

GYPSUM DRYWALL

PART 1 - GENERAL

1.01 Description of Work:

A. Types of Work: The types of work herein specified includes the following:

1. **Gypsum drywall** applied to metal 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.

1.02 Quality Assurance:

- A. Fire-Resistance Ratings:** Where gypsum drywall systems with fire resistance ratings are indicated, provide G-P Gypsum Corp. system which 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” or in listing of other testing and agencies acceptable to authorities having jurisdiction.

1.03 Qualifications:

- A. 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.

1.04 Submittals:

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

1.05 Delivery, Storage and Handling:

- A. Deliver materials** in original packages, containers or bundles bearing G-P Gypsum brand name and identification.
- B. Store Materials** inside 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.

1.06 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 55 degrees F maintain building working temperature of not less than 55 degrees 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

2.01 Materials - G-P Gypsum:

- A.** 1/2" GyProc® gypsum board.
- B.** 5/8" GyProc® Fireguard® Type X Gypsum Board.
- C.** 1/2" GyProc® Fireguard® C Gypsum Board.
- D.** 5/8" GyProc® Fireguard® C Gypsum Board.

2.02 Metal studs, track, furring 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.

2.03 Trim Accessories:

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

2.04 Joint Treatment Materials:

A. General: Provide type of material recommended for application indicated and manufactured by G-P Gypsum.

B. Joint Tape: G-P Gypsum tape for reinforcing joints.

C. Joint Compound: G-P Gypsum Bedding Compound for first coat application.

D. Joint Compound: G-P Gypsum Topping Compound for second and third coat application.

E. Joint Compound: G-P Gypsum Triple Duty® Joint Compound for taping, finishing and texturing.

F. Joint Compound: G-P Gypsum Ready Mix or Featherweight® All Purpose Joint Compounds for bedding taping, finishing joints, filling corner beads, spotting nails and texturing.

G. Joint Compound: G-P Gypsum Speed Set® for all bedding and topping coats and especially for cold weather or slow drying conditions. Easy sanding version available, also.

2.05 Miscellaneous Materials:

A. 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.

2.06 Texture Finish Materials:

A. G-P Gypsum Wall Texture: Non-aggregated compound.

B. G-P Gypsum Ceiling Texture: Vermiculite, medium or coarse texture.

C. G-P Gypsum Premixed Ceiling Texture: Coarse Perlite aggregate.

2.07 Gypsum Drywall System:

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

PART 3 - EXECUTION

3.01 Installation:

A. 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.

3.02 Installation of Gypsum Board:

A. Gypsum Board Application and Finishing Standards: ASTM C 840 and GA 216.

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'-0".

D. Install 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 exposed gypsum board with face side out. Do not install damaged or damp boards. Butt boards together at edges and ends with not more than 1/32" open space between boards.

F. Located edge or end joints over supports. Do not place tapered edges against cut edges or ends. Stagger vertical joints over different studs on opposite sides of wall.

3.03 Gypsum Drywall Application:

A. Single-Layer Application: On ceilings apply gypsum board prior to application of the walls.

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 10". 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's 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" open space where boards abut other work.

3.04 Installation of Accessories:

A. 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's instructions and recommendations.

3.05 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 Finishing: The recommended levels of finish of gypsum board for walls and ceilings are contained with GA-214; "Levels of Gypsum Board Finish."

3.06 Application of Texture Finishes:

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

3.07 Protection of Work:

A. Provide protection that ensures gypsum drywall work being without damage or deterioration at time of substantial completion.