

Dens-Glass Gold Architectural Specifications

Part 1—General

1.0 Description

- A. Work in this section includes, but is not limited to: Wall, ceiling and soffit sheathing.
- B. Related work specified elsewhere:
 1. Brick masonry.
 2. Stone.
 3. Cold-formed metal framing.
 4. Rough carpentry.
 5. Finish carpentry.
 6. Exterior Insulation Finish and Systems (EIFS).
 7. Siding.
 8. Joint sealers.
 9. Light-gauge metal framing.
 10. Painting.

1.1 Submittals

- A. **Product Data:** Submit manufacturer's descriptive literature indicating material composition, thickness, sizes and fire resistance.
- B. **Certificates:** Submit manufacturer's written certification that product meets specified requirements.

1.2 Quality Assurance

- A. **Fire-resistance ratings:** Where applicable, provide materials and construction that are identical to those of assemblies whose fire-resistance ratings are indicated.

1.3 Delivery, Storage and Handling

- A. **Delivery:** Deliver materials to the job site in manufacturer's original packaging, containers and bundles with manufacturer's brand name and identification intact and legible.
- B. **Storage and handling:** Store level and handle materials to protect against contact with damp and wet surfaces, exposure to weather, breakage and damage to edges. Provide air circulation under covering and around stacks of materials.

1.4 Limitations

- A. Do not use Dens-Glass Gold sheathing as a base for nailing or mechanical fastening. Fasteners should be flush to the face of the board, not countersunk.
- B. The use of forced air heaters creates volumes of water vapor which, when not properly vented, can condense on building materials. The use of these type heaters and any resulting damage is not the responsibility of G-P Gypsum. Consult heater manufacturer for proper use and ventilation. Avoid any condition that will create moisture in the air and condensation on the exterior walls during periods when the exterior temperature is lower than the interior.
- C. When Dens-Glass Gold panels are used in slanted wall applications, that portion of the wall must be temporarily protected from the elements by the use of a weather barrier such as #15 felt prior to application of the cladding. Also, exposed wall ends such as may be found in parapets must be covered to prevent water from infiltrating the cavity.
- D. G-P Gypsum does not warrant and is not responsible or liable for the performance of the cladding or exterior systems applied over Dens-Glass Gold sheathing. The suitability and compatibility of any system is the responsibility of the system manufacturer or design authority.
- E. Do not laminate Dens-Glass Gold sheathing to masonry surfaces; use furring strips or framing spaced at manufacturer's specifications.
- F. Dens-Glass Gold sheathing is not intended for roof applications. For roof applications consult our Dens-Deck® roof board brochure.
- G. Dens-Glass Gold sheathing is not intended for tile applications. For tile applications, consult our Dens-Shield® Tile Backer brochure.
- H. Dens-Glass Gold sheathing is not a structural product and should not be used in lieu of plywood where required.

- I. Do not apply Dens-Glass Gold sheathing below grade.
- J. For all installations, design details such as fasteners, sealants and control joints per system specifications must be properly installed per system specifications. Openings and penetrations must be properly flashed and sealed. Failure to do so will void the warranty.
- K. Dens-Glass Gold sheathing is exceptionally resistant to weather, but it is not intended for immersion in water or sustained exposure to water and moisture. Cascading roof/floor water should be directed away from the sheathing until appropriate drainage is installed.

1.5 Warranty

- A. **Materials Warranty:** Provide sheathing manufacturer's standard warranty covering sheathing materials for five years commencing on date of purchase.
- B. **Weathering Warranty:** Provide sheathing manufacturer's standard warranty covering in-place exposure damage to sheathing for six months commencing on date of purchase by contractor.

Part 2—Products

2.1 Sheathing board

A. Acceptable Products:

1. 5/8" Dens-Glass Gold sheathing
2. 5/8" Dens-Glass Gold Fireguard sheathing

B. Characteristics:

1. Size:
 - a. Dens-Glass Gold sheathing: 1/2" (12.7mm) thick by 4' by 8', 9' or 10' (1.9 lb. per square foot).
 - b. Dens-Glass Gold Fireguard Sheathing: Nominal 5/8" (15.9mm) thick by 4' by 8', 9' or 10' (2.5 lb. per square foot).
2. Composition:
 - a. Gypsum sheathing manufactured in accordance with ASTM C 1177 with glass mats both sides and long edges, water-resistant treated core.
3. Fire resistance:
 - a. Noncombustible when tested in accordance with ASTM E 136.
 - b. 1/2" or 5/8" Dens-Glass Gold sheathing: Flame spread 0, smoke developed 0, when tested in accordance with ASTM E 84.
 - c. 5/8" Dens-Glass Gold Fireguard: Sheathing is rated "Type X" as defined in ASTM C 36 when tested according to ASTM E 119 and can be used as a replacement to any other generic assembly utilizing a 5/8" Type X gypsum board (see GA-600 for numeric assemblies). Dens-Glass Gold Fireguard sheathing is UL classified, Type DGG in UL designs N501, N502, N505, U301, U302, U305, U309, U337, U411, U425, U467, U473, X508, X516.

2.2 Building paper

- A. If required by local building code, No. 15, non-perforated, asphalt saturated felt complying with ASTM D 226, Type 1 or equal.

2.3 Accessories

- A. **Joint tape:** 2" wide, 10x10 glass mesh tape.
- B. **Joint compound:** G-P Gypsum setting-type joint compound.
- C. **Nails, wood framing:** Hot dip, 11-gauge galvanized nails with 7/16" head, 1 1/2" min. length.
- D. **Screws, metal framing:**
 1. Type S-12, bugle head, self-tapping, rust-resistant, fine thread for heavy-steel gauge (12 to 22).
 2. Type S, bugle head, rust-resistant sharp point, fine thread for light-gauge metal framing or furring.
- E. **Screws, metal or wood framing:**
 1. Wafer head, rust-resistant, Type S-12 drill or Hi-Lo, min. 1" length. Or Type W rust-resistant, bugle head, coarse thread, sharp point for wood.

F. Sealants, caulk and tape:

1. Dow Corning 795 or equivalent; Pecora 895 or equivalent.
2. Borden HPPG Elmers Siliconized Acrylic Latex Caulk or equivalent; Pecora AC-20 acrylic latex sealant; GE Silicone Silpruf Sealant; Tremco Dymonic
3. 2" wide 10 x 10 glass mesh Quick Tape or equivalent

Part 3—Execution

3.1 Preparation

Examine subframing; verify that surface of framing and furring members to receive sheathing does not vary more than 1/4" from the place of faces of adjacent members.

3.2 Sheathing

- A. Provide Dens-Glass Gold sheathing where indicated on drawings. Install sheathing in accordance with manufacturer's instructions and applicable instructions in GA-253 and ASTM C 1280.
- B. Install Dens-Glass Gold sheathing with gold side out.
- C. Use maximum lengths possible to minimize number of joints.
- D. **Wood framing:** Attach Dens-Glass Gold sheathing to wood framing with nails spaced 4" o.c. at perimeter for racking shear resistance; 8" o.c. at perimeter where there are framing supports and where racking shear resistance is not required; and 8" o.c. along intermediate framing in field for both conditions.
- E. **Metal framing:** Attach Dens-Glass Gold sheathing to metal framing with screws spaced 8" o.c. at perimeter where there are framing supports; and 8" o.c. along intermediate framing in field.
- F. Drive fasteners to bear tight against and flush with surface of sheathing. Do not countersink.
- G. Locate fasteners minimum 3/8" from edges and ends of sheathing panels.
- H. **Building paper:** If required, install building paper or equal with flashing around openings.
- I. **Finishing:**
 1. Seal fasteners using Dow Corning 795 or Borden HPPG Elmers Siliconized Acrylic Latex Caulk or equivalent.
 2. Finish joints using Dow Corning 795 or Borden HPPG Elmers Siliconized Acrylic Latex Caulk or equivalent. Reinforce with 2" wide 10 x 10 glass mesh Quick Tape or equivalent.

3.3 Ceilings and Soffits

A. Joint treatment and finish preparation:

1. Painted ceilings and soffits
 - a. Apply joint tape over joints and embed in setting-type joint compound specified.
 - b. Skim coat surface with setting-type joint compound for smooth finish.
 - c. Prime and paint with exterior grade, good quality paints.

Caution: THIS PRODUCT CONTAINS CONTINUOUS FILAMENT FIBERGLASS

Fiber released during normal handling of this product can cause skin, eye and respiratory irritation. Avoid breathing dust and contact with skin and eyes. Follow these standard work practices:

- Wear long-sleeved, loose-fitting clothing, gloves and eye protection.
- Use a respirator, such as a 3M Model 9900 or equivalent.
- Wash exposed areas with soap and warm water after handling.
- Wash work clothes separately from other clothing; rinse washer thoroughly. Operations which generate high airborne fiber concentrations (over 10 fibers/cc) require additional respiratory protection.