

# GlasRoc® Sheathing

## Architectural Specifications

### Section 09 21 16 / 06 16 00 - Sheathing

#### Part 1-General

##### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1. Specification Sections, apply to this Section.

##### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Sheathing Board.
  - 2. Sheathing joint-and-penetration treatment.

##### 1.3 DEFINITIONS

- A. Gypsum Board Construction Terminology Standard: Refer to ASTM C11 for definitions of terms for gypsum sheathing board construction not defined in this Section or in other referenced standards.

##### 1.4 SUBMITTALS

- A. Submit in accordance with Section 01330.
- B. Product Data: For each type of product indicated.
- C. Informational Submittals: Submit manufacturer's instructions, special procedures, and perimeter conditions requiring special attention.

##### 1.5 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: For assemblies with fire-resistance ratings, provide materials and construction identical to those of assemblies tested for fire resistance per CAN/ULC-S101 (UL 263, ASTM E119) by a testing and inspecting agency acceptable to authorities having jurisdiction.
  - 1. Fire-Resistance Ratings: Indicated by design designations from UL and ULC "Fire Resistance Directory" and Products Certified for Canada.
- B. Single Source Responsibility: Except where specified otherwise, obtain gypsum board products, joint treatment, and accessories from single manufacturer or from manufacturers recommended by prime manufacturer of gypsum board products.

##### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store materials protected against damage from weather, direct sunlight, surface contamination, construction traffic, or other causes. Stack CertainTeed GlasRoc® Sheathing flat on leveled supports off the ground, under cover, and fully protected from weather.
  - 1. Store and support CertainTeed GlasRoc® Sheathing board in flat stacks to prevent sagging.
  - 2. Protect materials to keep them dry and clean.
  - 3. Protect gypsum board panels to prevent damage to edges, ends, and surfaces.

##### 1.7 COORDINATION

- A. CertainTeed GlasRoc® Sheathing:
  - 1. Intended for up to 12 (twelve) months of exposure following installation.

## 1.8 WARRANTY

- A. Manufacturer's standard warranty for product exposed to weather without failure, when installed in accordance with manufacturer's requirements, for period of not less than 12 months.

## Part 2-Product

### 2.1 GYPSUM SHEATHING

- A. Glass mat gypsum sheathing meeting the requirements of ASTM C1177 and CAN/ULC-S741
  - 1. CertainTeed Canada, Inc..
    - i. Basis of Design: "GlasRoc® Sheathing"
    - ii. Substitutions: Submit in accordance with Section 01600.
  - 2. Type and Thickness: Type X, 15.9 mm (5/8 inch) thick where indicated and as otherwise required to meet fire rating for specific element. [1/2 inch (12.7 mm) elsewhere.]
    - i. Flame spread:  
CAN/ULC-S102: 0;  
ASTM E84: 0
    - ii. Smoke developed:  
CAN/ULC-S102: 0;  
ASTM E84: 0
  - 3. Mould Resistance: ASTM D3273: 10
  - 4. Size: 1219 by not less than 2438 mm (48 by not less than 96 inches); longer lengths as available to reduce number of joints.

### 2.2 SHEATHING JOINT-AND-PENETRATION TREATMENT MATERIALS

- A. Silicone Emulsion Sealant: Meeting ASTM C920, Type S, Grade NS, compatible with glass fiber mesh tape and for covering exposed fasteners.
- B. SBS modified bitumen or acrylic self-adhered membranes for joint treatment. Minimal width of 100mm (4 inches)
- C. Glass-Fiber Mesh Tape: Self-adhering glass-fiber tape, nominal 2 inches (50 mm) wide, of type recommended by sheathing and tape manufacturers for use with silicone emulsion sealant in sealing joints in glass-mat gypsum sheathing board and with a history of successful in-service use.

### 2.3 ACCESSORY MATERIALS

- A. Fasteners: Steel drill screws or nails, in lengths recommended by sheathing manufacturer for thickness of sheathing board to be attached, with organic-polymer or other corrosion- protective coating. For ceiling/soffit applications with Direct-Applied Exterior Finish Systems (DEFS) and painted ceilings/soffits, fasteners having a salt spray resistance of more than 800 hours according to ASTM B117 are recommended.
  - 1. For steel framing less than 0.835 mm (0.0329 inch) thick, attach sheathing with steel drill screws complying with ASTM C1002.
  - 2. For steel framing from 0.84 to 2.84 mm (0.033 to 0.112 inch) thick, attach sheathing with drill screws complying with ASTM C954.
  - 3. For wood framing, attach with nails or screws of type and spacing as recommended by sheathing manufacturer

## Part 3-Execution

### 3.1 GYPSUM SHEATHING INSTALLATION

- A. Comply with GA-253, ASTM C1280 and manufacturer's written instructions.
- B. Install CertainTeed GlasRoc® Sheathing with polymer coated side (logo side) out. Boards are also printed with "This side out" on the face side.
- C. Cut boards at penetrations, edges, and other obstructions of work; fit tightly against abutting construction, unless otherwise indicated.
  - 1. Install boards with a 10 mm (3/8-inch) setback where non-load-bearing construction abuts structural elements.
  - 2. Install boards with a 6 mm (1/4-inch) setback where they abut masonry or similar materials that might retain moisture, to prevent wicking.
  - 3. Allow no joints greater than 3 mm (1/8 inch) .
- D. Coordinate sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that prevents exterior moisture from passing through completed exterior wall assembly.
- E. Apply fasteners so screw heads bear tightly against face of sheathing boards but do not cut into facing.
- F. Do not bridge building expansion joints with sheathing; cut and space edges to match spacing of structural support elements.
- G. Horizontal Installation: Install sheathing with long edges in contact with edges of adjacent boards without forcing. Abut ends of boards over centers of stud flanges, and stagger end joints of adjacent boards not less than one stud spacing. Screw-attach boards at perimeter and within field of board to each steel stud.
  - 1. Space fasteners approximately 200 mm (8 inches) o.c. (or tighter spacing if recommended by manufacturer for specific application) and set back a minimum of 3/8 inch (10 mm) from edges and ends of boards.

### 3.2 SHEATHING JOINT-AND-PENETRATION TREATMENT

- A. Seal sheathing joints, as required, according to sheathing manufacturer's written recommendations.
  - 1. If a weather seal is required before the application of a water-resistive barrier, apply silicone emulsion sealant on joints and trowel flat. Apply sufficient quantity of sealant to completely cover joints after troweling. Seal other penetrations and openings. Check with the water-resistive barrier manufacturer for installation instructions prior to the application of sealant.
  - 2. When permissible, a compatible self-adhered membrane can be applied. Store and install as per membrane manufacturer instruction.
  - 3. When the codes allow the application as an alternate to separate water-resistive barrier - Apply glass-fiber mesh tape to fiberglass reinforced gypsum sheathing board joints, and apply and trowel silicone emulsion sealant to embed sealant in entire face of tape. Apply sealant to exposed fasteners with a trowel so fasteners are completely covered. Seal other penetrations and openings.
- B. Water-Resistive Barrier:
  - 1. Consult building code authority having jurisdiction for requirements regarding water-resistive barrier installation, if necessary.
- C. Air-Barrier Assemblies
  - 1. Glasroc Sheathing can be incorporated into an air-barrier system in accordance with CAN/ULC S742. Detail as per Code/Testing in order to maintain the integrity.

### 3.3 Ceilings and Soffits

- A. Finishing is accomplished with one of the following methods:
  - 1. Direct-Applied Exterior Finish System (DEFS) is applied per the manufacturer's specifications.

2. Apply nominal 50 mm (2 inch) wide glass mesh drywall tape and 90 minute, setting-type joint compound on the board joints. Skim coat the entire surface with a setting-type compound, prime and paint with high quality exterior grade primer and paint per the manufacturer's recommendations.

**SAFETY:**

For more information, consult the Material Safety Data Sheet by contacting CertainTeed at 1-800-233-8990 or email: [building.solutions@certainteed.com](mailto:building.solutions@certainteed.com). For an electronic copy of this specification, please visit: [www.certainteed.com](http://www.certainteed.com)