

CertainTeed

GlasRoc[®] ROOF BOARD

Architectural Specifications

Section 07 50 00 Membrane Roofing PART 1-GENERAL

1.01 SUMMARY

A. Section Includes: Fiberglass
Mat-Faced Gypsum Roof Board:

1.02 REFERENCES

- A. ASTM International (ASTM):
1. ASTM C472 Standard Test Methods for Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete.
 2. ASTM C473 Standard Test Methods for Physical Testing of Gypsum Panel Products.
 3. ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
 4. ASTM C840 Standard Specification for Application and Finishing of Gypsum Board.
 5. ASTM C1177 Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.
 6. ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials.
 7. ASTM E661 Standard Test Method for Performance of Wood and Wood-Based Floor and Roof Sheathing Under Concentrated Static and Impact Loads.

1.03 SUBMITTALS

A. Product Data: Manufacturer's specifications and installation instructions for each product specified.

1.04 QUALITY ASSURANCE

A. Regulatory Requirements: Provide products that comply with the following limits for surface burning characteristics when tested per ASTM E84 and CAN/ULC S102:

1. Flame spread: 0.
2. Smoke developed: 0.

PART 2-PRODUCTS

2.01 MANUFACTURERS

A. CertainTeed Gypsum:

1. Fiberglass Mat-Faced Gypsum Roof Board:
 - a. GlasRoc[®] Roof Board.

2.02 MATERIALS

A. Fiberglass Mat-Faced Gypsum Roof Board:

1. Thickness: 1/4 inch (6.4 mm)
2. Width: 4 feet (1220 mm)
3. Length: 4 feet (1220 mm); 8 feet (2440 mm)
4. Weight: 1.25 lb/sq. ft. (6.1 kg/m²)
5. Surfacing: Fiberglass mat.
6. Flexural Strength, Parallel (ASTM C473): 40 lbf (178 N) minimum.
7. Flute Span (ASTM E661): 2-5/8 inches (67 mm)
8. Permeance (ASTM E96): Not more than 40 perms (2298 ng/Pa·s·m²)
9. R-Value (ASTM C518): Not less than 0.26 (0.046 K·m²/W)
10. Water Absorption (ASTM C1177): Less than 10 percent of weight.
11. Compressive Strength (Applicable Sections of ASTM C472): 500 - 800 pounds per square inch (3400 - 5500 kPa)
12. Surface Water Absorption (ASTM C473): Not more than 2.5 grams
13. Acceptable Products:
 - a. GlasRoc Roof Board, CertainTeed Gypsum.

B. Fiberglass Mat-Faced Gypsum Roof Board:

1. Thickness: 1/2 inch (12.7 mm)
2. Width: 4 feet (1220 mm)
3. Length: 4 feet (1220 mm); 8 feet (2440 mm)
4. Weight: 1.9 lb/sq. ft. (9.3 kg/m²)
5. Surfacing: Fiberglass mat.
6. Flexural Strength, Parallel (ASTM C473): 80 lbf (356 N), minimum.
7. Flute Span (ASTM E661): 5 inches (125 mm)
8. Permeance (ASTM E96): Not more than 26 perms (1494 ng/Pa·s·m²)
9. R-Value (ASTM C518): Not less than 0.51 (0.09 K·m²/W)
10. Water Absorption (ASTM C1177): Less than 10 percent of weight.
11. Compressive Strength (Applicable Sections of ASTM C472): 500 - 800 pounds per square inch (3400 - 5500 kPa)

12. Surface Water Absorption (ASTM C473): Not more than 2.5 grams

13. Acceptable Products:

- a. GlasRoc Roof Board, CertainTeed Gypsum.

C. Fiberglass Mat-Faced Gypsum Roof Board:

1. Thickness: 5/8 inch (15.9 mm)
2. Width: 4 feet (1220 mm)
3. Length: 4 feet (1220 mm); 8 feet (2440 mm)
4. Weight: 2.4 lb/sq. ft. (11.7 kg/m²)
5. Surfacing: Fiberglass mat.
6. Flexural Strength, Parallel (ASTM C473): 100 lbf (445 N), minimum.
7. Flute Span (ASTM E661): 8 inches (200 mm)
8. Permeance (ASTM E96): Not more than 21 perms (1206 ng/Pa·s·m²)
9. R-Value (ASTM C518): Not less than 0.51 (0.09 K·m²/W)
10. Water Absorption (ASTM C1177): Less than 10 percent of weight.
11. Compressive Strength (Applicable Sections of ASTM C472): 500 - 800 pounds per square inch (3400 - 5500 kPa)
12. Surface Water Absorption (ASTM C473): Not more than 2.5 grams
13. Acceptable Products:
 - a. GlasRoc Roof Board, CertainTeed Gypsum.

PART 3-EXECUTION

3.01 INSTALLATION

A. Mechanically Attached: As recommended by roof system or as required by FM or UL/ULC guidelines.

1. Manufacturer's Recommendations:
 - a. Current "Product Catalog", CertainTeed Gypsum.

3.02 PROTECTION

A. Protect gypsum board installations from damage and deterioration until the date of Substantial Completion.

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SAINT-GOBAIN