GLASS MAT ROOF COVER BOARD
National Gypsum Company
Drop In Specification Language

Specifier Note: The purpose of this guide specification language is to assist the specifier in correctly specifying roof cover board products and their installation. The specifier needs to edit these guide specifications to fit the needs of each specific project. Contact National Gypsum Company to assist in appropriate product selections.

The language provided is not adequate as a complete stand-alone specification section. It is recommended to include the necessary language the appropriate PART of the roofing Section. Provided article numbering is for navigating this document only. Added language should be incorporated into the appropriate article heading of the Section.

National Gypsum Company’s roof cover board is appropriate for use in
Section 075213 - APP Modified Bituminous Membrane Roofing
Section 075216 - SBS Modified Bituminous Membrane Roofing
Section 075323 - EPDM Roofing
Section 075419 - PVC Roofing
Section 075423 - TPO Roofing
Contact National Gypsum Company for additional applications.

Specifier Notes included in (italicized red text) are included to provide assistance in selecting appropriate text for inclusion in a Specification. [Bold text] indicates a selection is required. Text in the brackets may not be the only options available, but are recommended or common selections.)

It is intended that the information provided in this guide specification be incorporated into a project specific roofing specification section.

PART 1 - GENERAL

1.1 REFERENCE STANDARDS

Specifier Note: EDIT list of reference standards based on standards that remain in the text body once section has been edited for specific project.

A. ASTM International

2. ASTM C 1177 - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing
5. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials
6. ASTM E 661 - Standard Test Method for Performance of Wood and Wood-based Floor and Roof Sheathing Under Concentrated Static and Impact Loads

B. UL

1. UL 790 - Standard Test Methods for fire Tests of Roof Coverings
2. ANSI/UL 1256 - Fire Test of Roof Deck Constructions
PART 2 - PRODUCTS

2.1 GLASS MAT ROOF COVER BOARD

(Specifier Note: DEXcell FA Glass Mat Roof Board is designed for fully adhered roof membranes and DEXcell Glass Mat Roof Board is designed for mechanically attached.)

A. Basis of Design: DEXcell™ BRAND FA Glass Mat Roof Board by National Gypsum Company

1. Physical Characteristics

(Specifier Note: 5/8 inch panels meet requirements of Type X. The 5/8 inch panels may be used in P series designs as a thermal barrier.)

a. Core: Enhanced Moisture and Mold Resistant Gypsum Core resistance to mold growth on the board per ASTM D 3273
b. Surfacing: Heavy Duty Coated Fiberglass Facer
c. Overall thickness: [1/4 inch] [1/2 inch] [5/8 inch]
d. Board conforms with requirement of ASTM C 1177
e. Minimum Flexural Strength, Parallel: [40 lbf] [80 lbf] [100 lbf] per ASTM C 473
f. Flute Spanability: [2-5/8 inches] [5 inches] [8 inch inches] when tested in accordance with ASTM E 661
g. Compressive Strength, Nominal: 900 psi when tested in accordance with ASTM C 473.
h. Permeance: [25] [24] [23] perms when tested in accordance with ASTM E 96, Dry cup method
i. [Meets FM Class 1 and UL Class A fire rating for roofing systems up to unlimited slope per UL 790]
j. [Classified in roof deck construction in accordance with ANSI/UL 1256.]
k. Flame Spread/Smoke Developed: 0/0 in accordance with ASTM E 84, UL 723, CAN/ULC-S102

B. Basis of Design: DEXcell™ BRAND Glass Mat Roof Board by National Gypsum Company

1. Physical Characteristics

(Specifier Note: 5/8 inch panels meet requirements of Type X. The 5/8 inch panels may be used in P series designs as a thermal barrier.)

a. Core: Enhanced Moisture and Mold Resistant Gypsum Core resistance to mold growth on the board per ASTM D 3273
b. Surfacing: Coated Fiberglass Facer
c. Overall thickness: [1/4 inch] [1/2 inch] [5/8 inch]
d. Board conforms with requirement of ASTM C 1177
e. Minimum Flexural Strength, Parallel: [40 lbf] [80 lbf] [100 lbf] per ASTM C 473
f. Flute Spanability: [2-5/8 inches] [5 inches] [8 inch inches] when tested in accordance with ASTM E 661
g. Compressive Strength, Nominal: 900 psi when tested in accordance with ASTM C 473.
h. Permeance: [25] [24] [23] perms when tested in accordance with ASTM E 96, Dry cup method
i. [Meets FM Class 1 and UL Class A fire rating for roofing systems up to unlimited slope per UL 790]
j. [Classified in roof deck construction in accordance with ANSI/UL 1256.]
k. Flame Spread/Smoke Developed: 0/0 in accordance with ASTM E 84, UL 723, CAN/ULC-S102
PART 3 - EXECUTION

3.1 COVER BOARD INSTALLATION

A. Install roof board in accordance with roof system manufacturer's installation instructions, and Factory Mutual Global (FMG) Loss Prevention Data Sheet 1-29.

B. Locate board edge joints on, and parallel to metal roof deck ribs. Stagger end joints of adjacent board lengths. Butt board edges and ends loosely unless otherwise indicated for assembly.

DISCLAIMER:

National Gypsum Company Guide Specifications have been written as an aid to the professionally qualified specifier and design professional. The use of this information requires the professional judgment and expertise of the qualified specifier and design professional to adapt the information to the specific needs of the building Owner and the project; to coordinate with the design professional's construction document process, and to meet the applicable building codes, regulations and laws. National Gypsum disclaims any warranty, expressed or implied, including the warranty of fitness for a particular purpose of the product for a project.

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