

\*\*SPECIFIER NOTE: GUIDE SPECIFICATION PURPOSE\*\*

THIS GUIDE SPECIFICATION IS DESIGNED TO ASSIST THE SPECIFIER IN ACCURATELY SPECIFYING NEXGEN MAXTERRA® MgO FIRE-AND WATER-RESISTANT BACKER BOARD AND ITS INSTALLATION. THE SPECIFIER IS REQUIRED TO EDIT THE GUIDE SPECIFICATION TO SUIT THE SPECIFIC NEEDS OF EACH PROJECT. THROUGHOUT THIS GUIDE SPECIFICATION, SPECIFIER NOTES ARE PROVIDED TO AID IN THE EDITING PROCESS. RED TEXT IN BRACKETS INDICATES THAT A SELECTION NEEDS TO BE MADE BY THE SPECIFIER. FOR ASSISTANCE IN SELECTING THE MOST APPROPRIATE PRODUCTS, PLEASE CONTACT NEXGEN BUILDING PRODUCTS.

NEXGEN MAXTERRA® MgO FIRE-AND WATER-RESISTANT BACKER BOARD’S OFFER A VERSATILE SOLUTION FOR VARIOUS BUILDING APPLICATIONS, CAPABLE OF REPLACING PORTLAND BASEDCEMENT BOARD’S FOR INTERIOR APPLICATIONS.

Disclaimer

This Specification has been prepared as a reference guide for professionally qualified Specifiers and Design Professionals. The use of this guide is intended to facilitate the specification of MAXTERRA® MgO FIRE-AND WATER-RESISTANT BACKER BOARD, but it is the sole responsibility of the qualified Specifier and Design Professional to exercise their professional judgment and expertise in adapting the information to the specific needs of the Building Owner and the Project.

The qualified Specifier and Design Professional must ensure that the Specification is coordinated with the Construction Document Process and meets all applicable building codes, regulations, and laws. NEXGEN™ disclaims any and all warranties, expressed or implied, including the warranty of merchantability or fitness for a particular purpose, with respect to the use of this product for the Project.

By using this Specification, the Building Owner and the Project accept the terms and conditions set forth in this Notice of Disclaimer and Limitation of Liability.



SECTION 09 28 13

CEMENTITIOUS BACKING BOARDS

NEXGEN BUILDING PRODUCTS

MAXTERRA® MgO FIRE-AND WATER-RESISTANT BACKER BOARD

\*\*SPECIFIER NOTE: \*\* THESE SPECIFICATIONS WERE CURRENT AT THE TIME OF PUBLICATION BUT ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE. PLEASE CONFIRM THE ACCURACY OF THESE SPECIFICATIONS WITH THE MANUFACTURER AND/OR DISTRIBUTOR PRIOR TO CONSTRUCTION OR INSTALLATION.

GUIDE SPECIFICATIONS: THIS GUIDE SPECIFICATION IS WRITTEN ACCORDING TO THE CONSTRUCTION SPECIFICATIONS INSTITUTE (CSI) FORMATS, INCLUDING MASTERFORMAT™, SECTIONFORMAT™, AND PAGEFORMAT™.

CAREFULLY REVIEW AND EDIT THIS SECTION TO MEET THE REQUIREMENTS OF THE PROJECT, LOCAL BUILDING CODE AND AUTHORITIES HAVING JURISDICTION. COORDINATE THIS SECTION WITH OTHER SPECIFICATION SECTIONS AND DRAWINGS.DELETE ALL "SPECIFIER NOTES" WHEN EDITING THIS SECTION.

# PART 1 - GENERAL

## SECTION INCLUDES

* + 1. NEXGEN MAXTERRA® MgO FIRE-AND WATER-RESISTANT BACKER BOARD.

## REFERENCES

* + 1. American Society for Testing and Materials (ASTM):
       1. ASTM E3223: Standard Guide for Specifying and Testing Field-Constructed Exterior Building Wall System Mockups in New Construction.
       2. ASTM E2099: Standard Practice for the Specification and Evaluation of Pre-Construction Laboratory Mockups of Exterior Wall Systems
       3. ASTM C1185: Standard Test Method for Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing, Siding Shingles, and Clapboards.
       4. ASTM D1037: Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials
       5. ASTM E72: Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
       6. ASTM E84 / UL723: Standard Test Methods for Surface Burning Characteristics of Building Materials.
       7. ASTM D1761: Standard Test Methods for Mechanical Fasteners in Wood and Wood-Based Materials.
       8. ASTM C666: Standard Test Methods for Resistance of Concrete to Rapid Freezing and Thawing
       9. ASTM D2394: Standard Test Methods for Simulated Service Testing of Wood and Wood-Based Finish Flooring
       10. ASTM C473: Standard Test Methods for Physical Testing of Gypsum Panel Products
    2. American National Standards Institute (ANSI):
       1. ANSI A118.1: Standard Specifications for Dry-set Portland Cement Mortar
       2. ANSI A118.4: Standard Specifications for Latex-Portland Cement Mortar
    3. International Code Council Evaluation Service (ICC-ES).
       - 1. ICC Evaluation Report: ICC ESR-5192.
         2. ICC-ES Acceptance Criteria for Fiber-Reinforced Magnesium-Oxide-Based Sheets (AC386)
         3. ICC-ES Acceptance Criteria for Reinforced Cementitious Sheathing and Floor Underlayment (AC376)
         4. ICC-ES Acceptance Criteria for Fiber-Cement Interior Substrate Sheets Used in Wet and Dry Areas (AC378)

## SUBMITTALS

* + 1. Product Data:
       1. Submit ICC-ES Evaluation Report ESR-5192, manufacturer's printed product literature, specifications, installation guide, warranty, and any additional product certifications to show compliance with indicated performance criteria.

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## QUALITY ASSURANCE

* + 1. Product must certified with the International Code Council Evaluation Service (ICC-ES).
    2. Product must be manufactured under a quality-control program with inspections by the International Code Council Evaluation Service (ICC-ES).
    3. Product must be labeled with ESR-5192 in accordance with ICC-ES Evaluation Report.
  1. MOCKUPS
     1. Mockups are constructed to verify selections made under Sample submittals; to demonstrate aesthetic effects and, qualities of materials and execution; to review coordination, testing, or operation; to show interface between dissimilar materials; and to demonstrate compliance with specified installation tolerances. Mockups are not Samples. Unless otherwise indicated, approved mockups establish the standard by which the Work will be judged.
     2. Coordinate mockup requirements with project requirements. Refer to all applicable sections of the Specifications for materials, products and components to be included in mockups.
     3. Obtain Architect's approval before starting work of mockups.
     4. Build mockups in location and of size indicated or, if not indicated, as directed by Architect.
     5. Notify Architect 7 days in advance of dates and times when mockups will be constructed.
     6. Demonstrate the proposed range of aesthetic effects and workmanship.
     7. Obtain Architect's approval of mockups before starting work, fabrication, or construction.
     8. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.

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## STORAGE AND HANDLING

* + 1. Storage and Protection: Store MAXTERRA® products in a cool / dry space, horizontal and fully supported, off the ground, on a clean and level surface, covered with a waterproof tarp or plastic sheeting, and provide proper ventilation. Consider additional protection during extended adverse weather conditions. See the MAXTERRA® product dimension and weights table for individual products and pallet sizes. Ensure forklifts or alternative equipment are capable of lifting and moving the pallet or load safely. Ensure if lifting pallets from long end the forks are long enough to balance the weight of the lift safely.
  1. PROJECT CONDITIONS
     1. Must comply with IBC and or IRC, and local building codes
     2. Environmental Limitations: Must comply with ANSI A108.11
     3. Environmental Limitations: DO NOT INSTALL, until installation areas are enclosed and conditioned for a minimum of 48 hours.

## WARRANTY

* + 1. Manufacturer’s Warranty: Provide the manufacturer’s standard limited warranty in effect at the date of purchase for a period of Ten (10) years.

# PART 2 - PRODUCTS

## MANUFACTURERS

* + 1. BASIS-OF-DESIGN - Specified Manufacturer: NEXGEN Building Products, 1904 Manatee Ave West #300, Bradenton, FL 34205. Telephone: 727-620-3334. Email: [support@nexgenbp.com.](mailto:support@nexgenbp.com) Web: [www.nexgenbp.com.](http://www.nexgenbp.com/)
    2. Substitutions: Not Permitted.

## NEXGEN MAXTERRA® MgO FIRE-AND WATER-RESISTANT BACKER BOARD DESCRIPTION

* + 1. NEXGEN MAXTERRA® MgO FIRE-AND WATER-RESISTANT BACKER BOARD

Description:

1. NEXGEN MAXTERRA® MgO is a mineral-based building material composed primarily of magnesium oxide and sulfate. It is a superior alternative to conventional Portland Cement based backer board products and Wet-Laid Gypsum.

## NEXGEN MAXTERRA® MgO FIRE-AND WATER-RESISTANT BACKER BOARD

Sustainability Characteristics:

* + - 1. NEXGEN MAXTERRA® MgO is free from VOCs, silica, and carcinogens.
      2. The formulation is sulfate-based, and this distinguishes it from traditional chloride-based MgO products, addressing corrosion issues and aligning with future safety and environmental compliance standards.

## NEXGEN MAXTERRA® MgO FIRE-AND WATER-RESISTANT BACKER BOARD PERFORMANCE AND DESIGN CRITERIA

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* + 1. Design Criteria:
       1. Strength: MAXTERRA® MgO FIRE-AND WATER-RESISTANT BACKER BOARD shall be strong and durable.
       2. Replaces:
          1. Traditional Portland Cement Boards
          2. Wet-laid Gypsum
       3. Uses: Interior sheathing designed to withstand prolonged exposure to moisture.
    2. Physical Characteristics:
       1. Dimensions: Conforms to ASTM C1185.
          1. Thickness:

[1/4 inch (6mm)].

[3/8 inch (9 mm)].

[1/2 inch (12 mm)].

[5/8 inch (16mm)].

* + - * 1. Dimensions:

[3 x 5 feet (0.9 x 1.5 meters)].

[4 x 8 feet (1.2 x 2.4 meters)].

[4 x 10 feet (1.2 x 3.0 meters)].

[4 x 12 feet (1.2 x 3.6 meters)].

* + - * 1. Weight:

[1/4in (6mm) - 1.22 pounds per square foot.]

[3/8in (9mm) - 1.81 pounds per square foot.]

[1/2in (12mm) - 2.41 pounds per square foot.]

[5/8in (16mm) - 3.22 pounds per square foot.]

* + - * 1. Edge Treatments:
        2. Straight / Square Edge
    1. Performance requirements:
       - 1. Contact the manufacturer for the most up-to-date performance testing information.
    2. Performance Criteria:
       1. Smoke and Flame Spread: Tested to ASTM E84/UL723.
          1. Flame Spread Index: 0.
          2. Smoke Developed Index: 0.
       2. Physical Properties: Conforms to ASTM C1185
          1. Flexural Strength: Greater Than 580 pounds per square inch (4,000 Kilopascals).
          2. Dimensions and Tolerances: Nominal panel dimensions for 4’x8’ for items 1-5 below, note these are tolerances.

Length: 1/8-in (3.125 millimeters).

Width: 1/8-in (3.125 millimeters).

Thickness: 1/16-in (1.6 millimeters).

Squareness: 1/64-in (0.4 millimeters).

Straightness: 1/64-in (0.4 millimeters).

* + - 1. Physical and Mechanical Properties: Tested to ASTM D1037 (saturated test condition)
         1. [1/4-in (6mm) Nail-head Pull Through: Ultimate Load Greater Than 60lbf (266 Newtons)]
         2. [3/8-in (9mm) Nail-head Pull Through: Ultimate Load Greater Than 90lbf (400 Newtons)]
         3. [1/2-in (12mm) Nail-head Pull Through: Ultimate Load Greater Than 90lbf (400 Newtons)]
         4. [5/8-in (16mm) Nail-head Pull Through: Ultimate Load Greater Than 90lbf (400 Newtons)]
         5. Falling Ball Impact: No Damage at 12-inch (30 centimeter) Drop.
      2. Performance of finish Flooring: Tested to ASTM D2394
         1. Compression Indentation: Less Than 0.05 inches (1.27 millimeters).
      3. Resistance of Concrete to Rapid Freezing and Thawing: Tested to ASTM C666
         1. Freeze/Thaw Cycling: No Disintegration following 25 Cycles.
      4. Physical Testing of Gypsum Products: Tested to ASTM C473
         1. Humidified Deflection: Less Than 0.0639 inches (1.62 millimeters).
      5. Shear Bond Strength for Dry-Set Portland Cement Mortar: Tested to ANSI A118.1
         1. Dry-Set Portland Cement: Greater Than 50 pounds per square inch (344.7 Kilopascals).
      6. Shear Bond Strength for Latex-Portland Cement Mortar: Tested to ANS A118.4
         1. Latex-Portland Cement Mortar: Greater Than 50 pounds per square inch (344.7 Kilopascals).
      7. Building Code Compliance:
         1. 2021, 2018, & 2015 International Building Code (IBC)
         2. 2021, 2018, & 2015 International Residential Code (IRC)

## FASTENERS

* + 1. Size and type of fastener must comply with the manufacturer’s written installation instructions and the requirements of authorities having jurisdiction. See manufacturer website for up-to-date suggested fasteners.
  1. MORTAR & JOINTS
     1. Mortar:
        1. Must Comply with ANSI A118.1 and ANSI A118.4.
     2. Joint Tape:
        1. Interior Treatment: Tape all joints prior to tiling. Must use a 2-inch wide high-strength alkali-resistant glass fiber tape.
     3. Joint Compound:
        1. Interior Treatment: Fill all joints prior to tiling. Must use a formulation that is compatible with other compounds applied on previous / successive coats.

# PART 3 - EXECUTION

## EXAMINATION

* + 1. Examine Project conditions and completed Work and verify that the area is ready to receive Work.
       1. Ensure wall and/or subfloor are structurally sound.
       2. Confirm wall and/or subfloor framing quality is within tolerances.
       3. Ensure all surfaces are clean and flat.
    2. Immediately correct all deficiencies and conditions which would cause improper execution of Work specified in this Section and subsequent Work.
       1. Proceeding with Work specified in this Section shall be interpreted to mean that all conditions were determined to be acceptable prior to start of Work.

## INSTALLATION GENERAL

* + 1. Install NEXGEN MAXTERRA® MgO FIRE-AND WATER-RESISTANT BACKER in accordance with the manufacturers written instructions, requirements of applicable (Evaluation Reports, Evaluation Listings, & any requirements of authorities having jurisdiction) Refer to Technical and Install Guide on <https://nexgenbp.com/resources>.
    2. Adhere to the recommendations of the Authorities Having Jurisdiction.
    3. Refer to the manufacturer’s instructions for required tools, materials, estimating procedures, and jobsite preparation
    4. Ensure project complies with ANSI A108.11
    5. Maintain designed expansion joints through backer board. Do not bridge designed expansion joints throughout.
  1. BACKER BOARD INSTALLATION FLOORS
     1. Thin set and mechanically fasten to structural members (floor applications only)
     2. [Thin set and nail] or [Thin set and screw] to structural subflooring.
     3. Place Backer Board with smooth side exposed.
     4. Place backer board with a 1/8-in (3mm) gap to adjacent panels.
     5. Offset underlayment edges a minimum of 4 inches from structural subflooring edges.
     6. Ensure full contact between NEXGEN MAXTERRA® MgO FIRE-AND WATER-RESISTANT BACKER BOARD and structural subflooring.
     7. Mechanically fasten underlayment board

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| **Panel Thickness** | **Fastening Requirements for Floor Applications6** | | |
| **Fastener Type Most Typical1,2** | **Perimeter Spacing3** | **Field Spacing** |
| **3/8” (9 mm)**  **½” (12 mm)**  **5/8” (16 mm)** | 0.113-in. dia. x 1-1/2 in. to 2 in. ring shank nails | 8-inches O.C. | 8-inches O.C. |
| #8 x 1-1/2 in. to 2 in. wafer head screws |

**For SI:** 1 inch =25.4 mm

1Fasteners must be corrosion resistant (electrogalvanized, hot-dipped galvanized, or stainless).

2Fasteners must be set flush or just below panel surface.

3Fasteners must be placed a minimum of 1/2-inch from edges and 2-inches from corners.

4Underlayment must be adhered to subfloor with mortar in accordance with ANSI A108.11.

5Joints must be filled with mortar and 2 inch-wide (51 mm), high strength, coated, alkali resistant, glass fiber reinforcing tape must be embedded into the wet mortar

6Structural subfloor assembly must be designed with a maximum assembly deflection of L/360 for the applicable design loads.

* 1. BACKER BOARD INSTALLATION WALL AND CEILING
     1. [Nail] or [Screw] to structural wall and ceiling members.
     2. Place Backer Board with smooth side exposed.
     3. Place backer board with a 1/8-in (3mm) gap to adjacent panels.
     4. Mechanically fasten underlayment board

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| --- | --- | --- | --- | --- | --- |
| **Panel Thickness** | **Framing and Fastening Requirements**  **for Wall and Ceiling Applications** | | | | **Maximum Weight of Tile - Ceiling Applications6** |
| **Framing Type** | **Framing Spacing** | **Fastener Type Most Typical** | **Fastener Configuration** |
| **¼” (6 mm)** | 2 x lumber1 | 16-inches O.C. | 11 ga x 3/8 in. HD Roofing Nails3  -Or-  # 8-18 x 3/8 in. HD ribbed wafer head screws3 | 8” O.C. (Walls)  6” O.C. (Ceilings) | Not suitable |
| **3/8” (9 mm)** | 10 psf5 |
| **½” (12 mm)** |
| **5/8” (16 mm)** |
| **¼” (6 mm)** | Cold-Formed Steel2 | 16-inches O.C. | # 8-18 x 3/8 in. HD ribbed wafer head screws4 | 8” O.C. (Walls)  6” O.C. (Ceilings) | Not suitable |
| **3/8” (9 mm)** | 10 psf4 |
| **½” (12 mm)** |
| **5/8” (16 mm)** |
| **¼” (6 mm)** | 2 x lumber1 | 24-inches O.C. | Grabber GCB8158HL | 6” O.C. (Perimeter)  x  12” O.C.  (Field) | Not suitable |
| **3/8” (9 mm)** |
| **½” (12 mm)** | 10 psf |
| **5/8” (16 mm)** | 10 psf |
| **¼” (6 mm)** | Cold-Formed Steel2 | 24-inches O.C. | Grabber GCB8158HL | 6” O.C. (Perimeter)  x  12” O.C.  (Field) | Not suitable |
| **3/8” (9 mm)** |
| **½” (12 mm)** | 10 psf |
| **5/8” (16 mm)** | 10 psf |

**For SI:** 1 inch =25.4 mm, 1 psf = 47.88 Pa

1Minimum Specific Gravity of 0.42.

2Minimum 20 gauge (0.33 in.) thick ASTM A653 G60 galvanized. Minimum depth of 3-1/2 in. for residential applications or 3-5/8 in. for commercial applications.

3Fastener must be of sufficient length to achieve minimum embedment depth into stud of ¾-inch.

4Fastener must be of sufficient length to achieve minimum embedment depth into stud of ¼-inch.

5Panels must be attached to minimum 20 gauge (0.33 in.) thick ASTM A653 G60 galvanized furring channels with # 8-18 x 3/8 in. HD ribbed wafer head screws of sufficient length to achieve minimum embedment depth in to furring channel of ¼-inch. Attachment of furring channels to framing is outside of the scope of this report.

6Weight of panels has been considered; weight of tile / mortar is in addition to the weight of the panels.

* 1. PROTECTION
     1. Protect exposed board surfaces from damage due to high construction traffic and concentrated loads during construction.
  2. REPAIR

1. For damage sheathing, replace with new NEXGEN MAXTERRA® MgO FIRE-AND WATER-RESISTANT BACKER BOARD.

## PREPERATION FOR FINISH INSTALATION

## Make sure surface is clean (free of dust, debris, oil and other contaminants)

## Verify fasteners are flush with panel surfaces

## Perform any required repairs in accordance with the section above and the information provided in the manufacturer's installation instructions.

## Perform any additional preparatory measures as required by the finish manufacturer.

**END OF SECTION**