

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

THIS GUIDE SPECIFICATION IS DESIGNED TO ASSIST THE SPECIFIER IN ACCURATELY SPECIFYING NEXGEN MAXTERRA® MagRock™ FIRE RESISTANT PREMIUM WALL 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 MATERRA® MagRock™ FIRE RESISTANT PREMIUM WALL BOARD’S OFFER A VERSATILE SOLUTION FOR VARIOUS BUILDING APPLICATIONS, CAPABLE OF REPLACING CONVENTIONAL GYPSUM BOARD 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® MagRock™ FIRE RESISTANT PREMIUM WALL 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 06 16 43**

**GYPSUM SHEATHING**

**NEXGEN BUILDING PRODUCTS**

**MAXTERRA® MagRock™ FIRE RESISTANT PREMIUM WALL 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® MagRock™ FIRE RESISTANT PREMIUM WALL 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-5506.
         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-5506, 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 be 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-5506 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 lBC and or IRC, and local building codes.
     2. Environmental Limitations: Must comply with ASTM C840 and or GA-216 requirements, whichever are more stringent
     3. Environmental Limitations: Prior to, during, and subsequent to installation, MagRock™ must be protected from direct exposure to rain, snow, sunlight, or any other excessive weather condition.
     4. Environmental Limitations: Do not install until installation areas are enclosed and conditioned.
     5. Environmental Limitations: MagRock™ should never be exposed to sustained temperatures of more than 125°f (52°c) for extended periods of time.
     6. Environmental Limitations: MagRock™ should never be exposed to wet environment, water, or continuous high humidity.

## 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® MagRock™ FIRE RESISTANT PREMIUM WALL BOARD DESCRIPTION

* + 1. MagRock™ Description:
       1. MagRock™ is a mineral-based building material composed primarily of magnesium oxide and sulfate. It is a superior alternative to conventional interior gypsum wall sheathing.
    2. MagRock™ 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.

## MagRock™ PERFORMANCE AND DESIGN CRITERIA

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* + 1. Design Criteria:
       1. Strength: MagRock™ shall be strong and durable.
       2. Replaces:
          1. Traditional Interior Gypsum Board
       3. Uses: Interior wall sheathing designed to withstand prolonged exposure to moisture & Fire Rated Wall Sheathing.
    2. Physical Characteristics of Sulfate-based magnesium oxide panels.
       1. Dimensions: Conforms to ASTM C1185.
          1. Thickness:

[3/8 inch (9 mm).]

[1/2 inch (12 mm).]

[5/8 inch (16mm).]

* + - * 1. Dimensions:

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

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

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

* + - * 1. Weight:

[3/8in (9mm) 1.33 pounds per square foot].

[1/2in (12mm) 1.77 pounds per square foot].

[5/8in (16mm) 2.36 pounds per square foot].

* + - * 1. Edge Treatments:

[Straight / Square Edge]

[Tapered Edge].

* + 1. Performance Criteria:
       1. Smoke and Flame Spread: Tested to ASTM E84/UL723.
          1. Flame Spread Index: 0.
          2. Smoke Developed Index: 5.
       2. Structural Performance: Tested to ASTM E72.
          1. Minimum allowable load 5psf.
       3. 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. [3/8-in (9mm) Nail-head Pull Through: Ultimate Load greater than 60lbf (267 Newtons)]
         2. [1/2-in (12mm) Nail-head Pull Through: Ultimate Load greater than 90lbf (400 Newtons)]
         3. [5/8-in (16mm) Nail-head Pull Through: Ultimate Load greater than 90lbf (400 Newtons)]
         4. 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)
         3. ICC Evaluation Report: ICC ESR-5506.

## FASTENERS

* + 1. Size and type of fastener must comply with the manufacturers written installation instructions and the requirements of authorities having jurisdiction. See manufacturer website for up-to-date suggested fasteners.

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* 1. ADHESIVES (MAY BE USED FOR WALLS ONLY)
     1. Adhesive type must comply with the manufacturers written installation instructions and the requirements of authorities having jurisdiction. See manufacturer website for suggested adhesives and product accessories guide
     2. Polyurethane or solvent based.
     3. Panel manufacturer and adhesive manufacturer recommended for indicated use
     4. Conforms with APA AFG-01 [and] [or] ASTM D3498
  2. JOINT TREATMENT
     1. Joint Treatment General:
        1. Must comply with ASTM C475/ C475M.
     2. Joint Tape:
        1. Must comply with ASTM C475/ C475M
        2. Interior Treatment: Paper
     3. Joint Compound:
        1. Interior Treatment: For each coat use a formulation that is compatible with other compounds applied on previous / successive coats.
        2. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
           1. Use drying-type or setting-type compound for installing paper faced metal trim accessories.
        3. Fill Coat: For second coat, use drying-type or setting-type, sandable topping compound.
        4. Finish Coat. For third coat, use drying-type or setting-type, sandable topping compound.
        5. Skim Coat: For final coat of Level 5 finish, use drying-type or setting-type, sandable topping compound.

# PART 3 - EXECUTION

## EXAMINATION

* + 1. Examine Project conditions and completed Work and verify that the area is ready to receive Work.
       1. Confirm wall framing quality is within tolerances.
    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 GNERAL

* + 1. Install NEXGEN MAXTERRA® MagRock™ FIRE RESISTANT PREMIUM WALL BOARD 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. MAXTERRA® MagRock™ FIRE RESISTANT PREMIUM WALL BOARD Finish Levels: Finish panels to levels according to ASTM C 840, GA-216 [and] [or] GA-214.
  1. MagRock™ INSTALLATION

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* + 1. Screw to structural wall framing members.
       1. Start by installing MagRock™ to the ceilings before installing on walls.
       2. Install MagRock™ with smooth side exposed.
       3. Lightly butt the panels to each other. Do not leave a gap or force the panels together.
       4. For horizontal applications, stagger the panels a bit like bricks so the seams do not line up in consecutive rows.
       5. [Optional (for walls only), apply code approved adhesive in accordance with manufacturer’s instructions.]

* + 1. Mechanically fasten MagRock™ per specifications below.

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**FASTENER CONFIGURATIONS (Walls and Ceilings)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Panel Thickness** | **Framing Type** | **Framing Spacing** | **Fastener Type**2 | **Fastener Configuration3** | **Maximum Weight of Insulation - Ceiling Applications1** |
| **3/8” (9 mm)** | 2 x lumber | 24-inches O.C. | #8 x 2-1/2-in drywall screw | 6” O.C. (Perimeter)  x  12” O.C.(Field) | 6 psf |
| **½” (12 mm)** |
| **5/8” (16 mm)** |

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

1Weight of panels has been considered; weight of insulation is in addition to the weight of the panels.

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.

* 1. PROTECTION
     1. Protect exposed board surfaces from damage due to high construction traffic.
  2. REPAIR
     1. MagRock™ imperfections and minor divots can be easily corrected through patching with compound complying with ASTM C475/ C475M. Follow the manufacturer’s instructions for achieving optimal gap filling and applications.
     2. For damage that is greater than small imperfections / minor divots that create a hole in the panel, the impacted area and surrounding area should be replaced with a new piece of MagRock™. Replace damaged areas with new MagRock™ ensuring a minimum width of 24-inches of coverage that spans a minimum of two spans (three wall studs), add nominal 2x blocking at the panel seams. When MagRock™ are used as an element to resist lateral loading, the panels shall be installed in accordance with the Lateral Force Resisting Systems section above and in accordance with applicable evaluation service report.

## 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.

## Finish panels to levels according to ASTM C 840, GA-216 [and] [or] GA-214.

**END OF SECTION**