

ICC-ES Evaluation Report

ESR-5506

Issued November 2024

Subject to renewal November 2025

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<p>DIVISION: 06 00 00 – WOOD, PLASTICS AND COMPOSITES</p> <p>Section: 06 16 00 – Sheathing</p>	<p>REPORT HOLDER:</p> <p>NEXGEN BUILDING PRODUCTS LLC</p> 	<p>EVALUATION SUBJECT:</p> <p>MAXTERRA™ MagRock™ Fire Resistant Light Weight Premium Wall Board</p>	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018 and 2015 [International Building Code® \(IBC\)](#)
- 2021, 2018 and 2015 [International Residential Code® \(IRC\)](#)

Property evaluated:

- Durability
- Surface-burning Characteristics
- Structural

2.0 USES

MAXTERRA™ MagRock™ Fire Resistant Light Weight Premium Wall Board panels are intended for use as interior sheathing for walls and ceilings. The products are intended for use in Type V construction under the IBC and all construction types under the IRC.

3.0 DESCRIPTION

3.1 General:

MAXTERRA™ MagRock™ Fire Resistant Light Weight Premium Wall Board panels are nominal 3/8-inch (9 mm), 1/2-inch (12 mm) and 5/8-inch (16 mm) thick magnesium-oxide panels reinforced with multiple fiberglass mesh sheets. The MagRock™ boards exhibit a sag resistance complying with the minimum requirements found in ASTM C1396 for use as sag-resistant ceiling board. The MagRock™ panels are available in nominal 4-foot (1.22 m) widths at a nominal length of 8 feet (2.44 m), 10 feet (3.05 m) or 12 feet (3.66 m). The panels are available with either tapered or square edges along the length of the panels.

3.2 Surface Burning Characteristics:

MAXTERRA™ MagRock™ Fire Resistant Light Weight Premium Wall Board panels exhibit a flame spread index of 25 or less and a smoke developed index of 450 or less when tested in accordance with ASTM E84. The panels exhibit a Class A interior finish in accordance with Section 803.1.2 of the 2021 and 2018 IBC (Section 803.1.1 of the 2015 IBC).

4.0 INSTALLATION

MAXTERRA™ MagRock™ Fire Resistant Light Weight Premium Wall Board panels must be installed in accordance with the manufacturer's published installation instructions, ASTM C840, and this report. MAXTERRA™ MagRock™ Fire Resistant Light Weight Premium Wall Board panels may be installed on wood framing. The panels must be mechanically fastened to the framing in accordance with [Table 1](#) of this report. When installed in accordance with [Table 1](#) of this report, the minimum interior wall and partition uniform load requirement of 5 psf outlined in Section 1607.16 of the 2021 IBC (Section 1607.15 of the 2018 IBC and Section 1607.14 of the 2015 IBC) as well as the deflection limit of L/360 outlined in Table 1604.3 of the IBC and Table R301.7 of the IRC have been considered.

A flush-joint procedure must be used on the panels. Gypsum board joint compounds complying with ASTM C474 and C475 must be troweled into the joints. Paper joint tape must be embedded into the wet joint compound and allowed to thoroughly dry. Additional coatings of joint compound over the joint tape must be applied as needed to acquire the desired level of finish. Fastener heads in the field of the panels must also be covered with joint compound. Once the panels have been finished to the desired level, primer and paint or wallpaper may be applied in accordance with the primer and paint or wallpaper manufacturer's instructions.

5.0 CONDITIONS OF USE:

- 5.1 MAXTERRA™ MagRock™ Fire Resistant Light Weight Premium Wall Board panels must be installed in accordance with this report and the manufacturer's published installation instructions. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.
- 5.2 Use of MAXTERRA™ MagRock™ Fire Resistant Light Weight Premium Wall Board panels in fire-resistance rated construction is outside the scope of this report.
- 5.3 Use of MAXTERRA™ MagRock™ Fire Resistant Light Weight Premium Wall Board panels as a thermal barrier for separating foam plastic from the interior of the building in accordance with IBC Section 2603.4 and IRC Section R316.4 in ceilings and walls is outside the scope of this report.
- 5.4 Use of MAXTERRA™ MgO Fire- and Water- Resistant Backer Board Panels and MAXTERRA™ MgO Fire- and Water- Resistant Underlayment Panels to resist in-plane racking shear loads is outside the scope of this report.
- 5.5 Use of MAXTERRA™ MagRock™ Fire Resistant Light Weight Premium Wall Board panels in horizontal diaphragm applications for ceiling assemblies is outside the scope of this report.
- 5.6 Compatibility of primer, paint, and wallpaper / wallpaper adhesive with the panels is outside the scope of this report.
- 5.7 MAXTERRA™ MagRock™ Fire Resistant Light Weight Premium Wall Board panels are limited to use on interior surfaces as defined in 2021 and 2018 IBC Section 202 (2015 IBC Section 2502). The panels must not be used in wet areas as defined in IBC Section 2509; under the IRC, the panels must not be used in showers.
- 5.8 MAXTERRA™ MagRock™ Fire Resistant Light Weight Premium Wall Board panels are manufactured under a quality-control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the [ICC-ES Acceptance Criteria for Fiber-reinforced Magnesium-oxide-based Sheets \(AC386\)](#), dated October 2023.
- 6.2 Data in accordance with the [ICC-ES Acceptance Criteria for Reinforced Cementitious Sheathing and Floor Underlayment \(AC376\)](#), dated August 2012 (editorially revised January 2021).
- 6.3 Data in accordance with the [ICC-ES Acceptance Criteria for Fiber-Cement Interior Substrate Sheets Used in Wet and Dry Areas \(AC378\)](#), dated August 2012 (editorially revised January 2021).

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-5506) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.
- 7.2 The report holder’s contact information is the following:

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TABLE 1 –FASTENER CONFIGURATIONS (Walls and Ceilings)

Panel Thickness	Framing Type	Framing Spacing	Fastener Type ¹	Fastener Configuration ²	Allowable Positive and Negative Load – Wall Applications
3/8" (9 mm)	2 x lumber	24-inches O.C.	#8 x 2-1/2 inch drywall screw	6" O.C. (Perimeter) x 12" O.C. (Field)	14 psf
1/2" (12 mm)					
5/8" (16 mm)					

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

¹Fasteners must be set flush or just below panel surface.

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