Panel Rey® GUARD REY / GUARD REY X

[Mold resistant and fireproof gypsum board]

Submittal

DESCRIPTION

Guard Rey® and Guard Rey X® mold resistant drywall are specially manufactured to provide protection against the growth of mold and microscopic fungi. It is designed for the application of different finishing in areas with limited moisture exposure and where protection against the growth of mold, fungi and pathogenic microorganisms is required such as tub and showers areas or behind tiles.

GUARD REY® TYPE X gypsum board is also designed for areas where fire rated product are specified.

ADVANTAGES

The GUARD REY® gypsum board is made of special hydrophobic additives which enhance its ability to resist high moisture environments, it also has protection to prevent mold and mildew growth which achieved a value of 10 in ASTM D3273 TEST. GUARD REY® TYPE X gypsum board also has a fireproof core specially treated to enhance its fire resistance when installed according to fire-rated tested assemblies. Panel Rey® GUARD REY / GUARD REY X gypsum boards are wrapped with 100% recycled paper from both sides.

LIMITATIONS

- GUARD REY® is designed for use indoors only.
- Shall not be used where there will be direct exposure to water or continuous high humidity before, during, and after construction.
- Avoid exposure to constant temperatures higher than 125°F (52°C, for example, close to burners, furnaces or heaters.
- GUARD REY® is a non-structural panel, it cannot to be used as a structural fastener base or to support wall or ceiling mounted objects.
- The spacing of the ceiling frames must not exceed the recommendations specified in the ASTM C -840 standard.
- Panel Rey® does not guarantee or be held responsible for the performance of interior finishing systems applied on the GUARD REY® gypsum board.
- The suitability and compatibility of any finishing system with GUARD REY® gypsum board is finishing system manufacturer's liability or design authority.
- Joints, open spaces and deep cavities should be properly sealed. Otherwise it will cause the warranty invalidation.

PRODUCT DATA

DIMENSIONS

TYPE	Thickness	Wide	Lengths*	Edge Configuration	UL Type	"R" Value
Guard Rey	½" (12.7mm)	4 ft (1.22 m)	8 – 12 ft (2.44 – 3.66 m)*	Tapered	-	0.45
Guard Rey X	⅝'' (15.9mm)				MDX	0.48

*Up to 16 ft lengths available on special orders only. Conditions apply.

TECHNICAL DATA

Properties	UNITS	1/2''	5/8''
Weight	lb/SF	1.57	2.26
Flexural Strength (Parallel to fiber)	Lb_f	≥ 40	≥ 50
Flexural Strength (Across to fiber)	Lb_f	≥ 110	≥ 150
Nail Pull Resistance	Lb_f	≥ 80	≥ 90
Core Hardness	Lb_f	≥ 15	≥ 15
Edge Hardness	Lb_f	≥ 15	≥ 15
Mold Resistance (ASTM D-3273)	-	10	10
Core Water Absorption	%	≤ 5	≤ 5

Surface Burning characteristics ASTM E-84:

Flame Spread	0
Smoke Develped	0

SPECIFICATIONS

PART 1: GENERAL

1.1 SCOPE
Specify to meet project requirements.

1.2 DELIVERY AND STORAGE OF MATERIAL:
All materials shall be stored in an enclosed shelter providing protection from damage and exposure to the elements. Damaged or deteriorated materials shall be removed from the premises. Prior to installation, panels should be stacked flat (unless the contractor in charge of site safety directs otherwise to avoid point overloading of the structure or a tripping hazard) and reasonably protected from the elements.

Warning: Store all GUARD REY® boards flat. Panels are heavy and can fall over, causing serious injury or death. Do not move unless authorized.

PART 2: PRODUCTS

2.1 PANEL REY® GUARD REY:
Thickness: 1/2'' and 5/8" (TYPE X).
Width: 4 ft.
Length: 8, 9, 10 and 12 ft.

2.2 NAILS, WOOD FRAMING:
Hot dip, 11-gauge galvanized nails with $^{7}/_{16}$" head, 1½" min. length.

2.3 SCREWS, METAL FRAMING:
A. Type S-12, bugle head, self-tapping, rust-resistant, fine thread for heavy-steel gauge (12 to 22).
B. Type S, bugle head, rust-resistant sharp point, fine thread for light-gauge metal framing or furring.

2.4 SCREWS, METAL OR WOOD FRAMING:

Wafer head, rust-resistant, Type S-12 drill or Hi-Lo, min. 1" length. Or Type W rust-resistant, bugle head, coarse thread, sharp point for wood.

PART 3: EXECUTION

3.1 FRAMING.

A. Examine subframing. Verify that surface of framing and furring members to receive gypsum panels does not vary more than ¼" from the place of faces of adjacent members.

B. Provide GUARD REY® gypsum panel where indicated on drawings. Install panels in accordance with manufacturer's instructions and applicable instructions in GA-216 and ASTM C840.

C. Install GUARD REY® gypsum panel with bluish gray paper facing out.

D. Use maximum lengths possible to minimize number of joints.

E. Wood framing: Attach GUARD REY® gypsum panels to wood framing with nails spaced 4" o.c. at perimeter for racking shear resistance; 8" o.c. at perimeter where there are framing supports and where racking shear resistance is not required; and 8" o.c. along intermediate framing in field for both conditions.

F. Metal framing: Attach GUARD REY® gypsum panels to metal framing with screws spaced 8" o.c. at perimeter where there are framing supports; and 8" o.c. along intermediate framing in field.

3.2 CONTROL JOINTS

Install control joints at locations indicated on Drawings and if not shown, according to ASTM C840 or GA-216 and in specific locations approved by Architect for visual effect.

3.3 SHEAR OR FIRE RATED CONSTRUCTION:

Where applicable, provide materials and construction that are identical to those of designs whose fire-resistance ratings are indicated. The performance of desired fire-rated designs is established through tests performed by independent laboratories. These designs are made of specific materials under precise setting conditions. When designs are chosen to meet certain standards of performance against fire, you must ensure that each component of the design selected is specified in the test and that all materials have been assembled according to the requirements.