

Manufacturer Panel Rey S.A. Serafin Peña #938 Sur Col. Centro Z.C. 64000 Monterrey, N.L.

Description

Due to its superior performance, the Panel Rey® GLASS REY INTERIOR gypsum board is non-structural gypsum panel specified for interiors and partially exposed to weather conditions walls and ceilings (according to fire rated designs) such as garages, breezeways and open porches in residential construction, and in parking areas, walkways and marquees in commercial construction.

Advantages

The Panel Rey® GLASS REY INTERIOR gypsum board is made of a fireproof core specially treated with specialized fibers and additives to enhance its fire resistance and it is moisture resistant for application in areas where controlled humidity will be present.

Panel Rey® GLASS REY INTERIOR gypsum board is mold resistant, so it scored a 10 (highest) when tested in accordance with ASTM D3273 and will withstand up to 12 months of interior exposure to normal weather conditions. This gypsum board is a low emission VOCs drywall and contribute to achieve credits in the LEED certification of buildings.

Limitations

- Panel Rey® GLASS REY INTERIOR is for use in interiors and protected
 - exterior areas.
 - Avoid exposure to constant temperatures higher than 125°F (52°C), for example, close to burners, furnaces or heaters.
- Panel Rey® GLASS REY INTERIOR gypsum board is a non-structural panel, it cannot 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.
 - The building must be dried-in prior to installation in soffits and other horizontal applications.
 - The suitability and compatibility of any finishing system with Panel Rey® GLASS REY INTERIOR gypsum board is finishing system manufacturer's liability or design authority.
- Not suitable for use as a substrate for tile in wet areas such as tubs, gang showers, and other areas subject to direct water exposure.

Product information

Dimensions
 Thicknesses: 1/2" (12.7 mm)
 Width: 4 ft (1.22 m)
 Lengths: 8 - 12 ft (2.44 - 3.66 m) Special lengths are available upon request.
 Edge Configuration: Beveled
 UL Type: -

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 PANEL REY GLASS REY® INTERIOR 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 GLASS REY® INTERIOR:

Thickness: 1/2".
 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, 1 1/2" 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 1/4" from the place of faces of adjacent members.
- B. Provide PANEL REY GLASS REY® INTERIOR 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 PANEL REY GLASS REY® INTERIOR gypsum panel with brown paper facing out.
- D. Use maximum lengths possible to minimize number of joints.
- E. Wood framing: Attach PANEL REY GLASS REY® INTERIOR 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 PANEL REY GLASS REY® INTERIOR 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.

SUBMITTAL APPROVALS

Job Name _____
 Contractor _____
 Date _____

| Physical Characteristics | | | | |
|---|---------------------------------|-------------------------|--|----------------------------|
| Characteristics / Properties | UNITS | 1/2" | | Method |
| Nominal Thickness | in/1000 | 500 ±31.25 | | ASTM C-1658 |
| Width | in | Nom - 0.093 | | ASTM C-1658 |
| Length | in | Nom ± 0.25 | | ASTM C-1658 |
| End Squareness | in | ± 0.125 | | ASTM C-1658 |
| Weight ¹ | lb/ft ² kg/Pz 4x8 | 1.90 27.6 | | - |
| Flexural Strength (Parallel to fiber) | Lb _f | ≥ 80 | | ASTM C-1658 |
| Flexural Strength (Across to fiber) | Lb _f | ≥ 100 ≥ 107 | | ASTM C-1658 ASTM C-1396 |
| Humidified Deflection | in | ≤ 5/16 | | ASTM C-1658 |
| Nail Pull / Nail Pull Resistance | Lb _f | ≥ 80 | | ASTM C-1658 |
| Core Hardness | Lb _f | ≥ 15 | | ASTM C-1658 |
| Edge Hardness | Lb _f | ≥ 15 | | ASTM C-1658 |
| Water Resistance | % | ≤ 5 | | ASTM C-1658 |
| Surface Water absorption | gr | ≥ 1.6 | | ASTM C-1658 |
| Permeance ¹ | perms | > 10 | | ASTM E-96 |
| R Value ¹ | °F•ft ² •hr/BTU | 0.45 | | ASTM C-518 |
| Combustibility ¹ | - | Noncombustible | | ASTM E-136 |
| Flame Spread / Smoke Developed ¹ | - | 0 / 0 | | ASTM E-84 |
| Linear Expansion with change in moisture ¹ | in/in/%RH | 5.03 x 10 ⁻⁶ | | ASTM D-1037 |
| Coefficient of Thermal Expansion ¹ | in/in/°F | 9.43 x 10 ⁻⁶ | | ASTM E-228 |
| Mold Resistance ¹ | - | 10 | | ASTM D-3273 |

Information based on properties and performance of materials and systems obtained under strict controlled test conditions under the appropriate ASTM standards.



U.S.A. – Panel Rey S.A.

SALES INFORMATION AND ORDER PLACEMENT
U.S.A. and Canada: 1800 862 9022

TECHNICAL INFORMATION
U.S.A. and Canada: 1800 862 9022
www.panelrey.com

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UPDATES AND CURRENT INFORMATION

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FIRE SAFETY CAUTION Passing a fire test in a controlled laboratory setting and/or certifying or labeling a product as having a one-hour, two-hour, or any other fire resistance or protection rating and, therefore, as acceptable for use in certain fire rated assemblies/systems, does not mean that either a particular assembly/ system incorporating the product, or any given piece of the product itself, will necessarily provide one-hour fire resistance, two-hour fire resistance, or any other specified fire resistance or protection in an actual fire. In the event of an actual fire, you should immediately take any and all actions necessary for your safety and the safety of others without regard for any fire rating of any product or assembly/ system.