

## Manufacturer

Panel Rey S.A.  
Serafin Peña #935 Sur Col. Centro Z.C. 64000  
Monterrey, N.L.

## Description

Panel Rey GlassRey® exterior sheathing board is a gypsum board made of an incombustible, specially treated core that provides resistance to water absorption, protected on both sides by a mold and moisture resistant fiberglass coating with an ASTM3273 grade of 10. It assures good performance up to 12 months against degradation, delamination, and deterioration of use on normal conditions, or if exposed to normal weather conditions, such as UV rays, rain, wind, ice and snow.

Panel Rey GlassRey® presents dimensional stability, which guarantees resistance to deformation, undulation, and deflection on uniform surfaces. Given the glass mat fiber distribution, it is highly resistant to bending in both directions, therefore, it may be installed in a vertical or horizontal position to structural wall elements, according to standard installation recommendations.

## Basic applications

Given its outstanding performance, Panel Rey GlassRey® is ideal for either direct-applied exterior finishing systems (DEFS) or exterior insulated finishing systems (EIFS) on walls and ceilings as well as substrate for stucco, bricks, and stone finish. Likewise, it is the ideal substrate for adhesion or mechanic application of expanded polystyrene (EPS) or extruded polystyrene insulation for interior finish that require a moisture, mold or fire-resistant substrate.

Panel Rey GlassRey® is recommended for extreme climate zones. Please check the local codes, professional designs, and consult with the owner or manufacturer of the coating in order to verify outdoor resistance requirements.

## Limiting factors

Panel Rey GlassRey® can resist extreme weather conditions, but it is not designed for water immersion. Water flow on the floor or roof must be moved away from its surface until an appropriate drainage system is installed. Do not install a damaged board.

The spacing between frames shall not exceed 24" (610 mm) between the center points for 1/2" panels. The designer shall be responsible for establishing the requirements for a correct performance against wind loads. Avoid any condition that may produce atmospheric humidity and condensation on outside walls during periods in which outdoor temperature is lower than indoor temperature.

Panel Rey GlassRey® is not designed as final finish. It must be coated and, preferably, according to the recommendations for a DEFS or EIFS system.

All elements of the design must be properly installed such as screws every 8", sealers and control joints with a maximum clearance of 32' (feet) in horizontal and vertical directions. Openings and penetrations must be properly sealed; otherwise warranty will be null and void.

For further information, please contact the technical department of Panel Rey. Panel Rey® does not guarantee nor assume any responsibility for the performance or output of the exterior finish applied to Panel Rey GlassRey®. The suitability and compatibility of any system is responsibility of the manufacturer or design authority.

Do not install the board directly on brickwork; use frames or slats. It is not designed for roofing or as substrate rest for roof tiles. Gypsum boards are not a structural element and must not be used for screwing or nailing objects directly to them. Apply good installation practices in order to avoid space between joints, movements of the installed gypsum board and infiltrations, given that this may void the warranty of the product.

## Technical Data

Moisture resistant.  
Warranty against deterioration or delamination exposed for 12 months under normal weather conditions.  
Mold resistance according to standard ASTM D3273.  
Fire resistance according to standard ASTM E136.  
Dimensionally stable under temperature and humidity changes.  
It does not require special cutting equipment and easy to install.

## Handling and storage

Panel Rey GlassRey® does not generate or favor growth of mold and fungus during transport, storage, handling or installation. It must be stored in an area protected against extreme weather and kept dry. During transport, the product must be covered. Make sure to remove any protection cover upon arrival in order to avoid favorable conditions for the growth of microorganisms.

Do not store the gypsum boards directly on the ground. Use enough shims (for a 8' long panel, 4 to 5 shims per stack are recommended) in order to provide adequate longitudinal support and avoid damage. Be careful not to damage or mistreat the product edges in order to assure a correct installation. The gypsum board must always be stacked in a horizontal manner, never on its edges or ends.

For further information, check standard GA-801 regarding the Handling and Storage of Plaster Panel Products.

## Product information

Rated Dimensions  
Thicknesses: 1/2" (12.7 mm) or 5/8" (15.9 mm)  
Width: 4' (1219 mm) or 4' (1219 mm)  
Lengths: 8' (2438 mm) or 8' (2438 mm) Special lengths are available upon request. Subject to restrictions.  
Edges: Squareness  
Type: GRX

## Fire protection

Panel Rey Glass Rey® has been tested according to standard ASTM E136 in order to determine its efficient fire-resistant performance, given that does not present any flame generation, which makes it an incombustible product. Panel Rey Glass Rey 5/8" is classified by Underwriters Laboratories, Inc. (UL), pursuant to

ASTM E-119 and E-84 standards.

Fire Resistance Classification Type GREX  
Surface Burning Characteristics  
Flame Spread 0  
Smoke Developed 0

See UL Directory of Products Certified for Canada and UL Fire Resistance Directory.

## Certification Marks:



# SUBMITTAL APPROVALS

Job Name \_\_\_\_\_  
Contractor \_\_\_\_\_  
Date \_\_\_\_\_

PHYSICAL CHARACTERISTICS				
Characteristics / Properties	UNITS	1/2"	5/8"	Method
Nominal Thickness	in/1000	500 ± 62.5	625 ± 62.5	ASTM C-1177
Width	in	Nom - 0.125	Nom - 0.125	ASTM C-1177
Length	in	Nom ± 0.25	Nom ± 0.25	ASTM C-1177
End Squareness	in	± 0.125	± 0.125	ASTM C-1177
Weight <sup>1</sup>	lb/ft <sup>2</sup> kg/Pz 4x8	1.90 27.6	2.45 35.6	-
Flexural Strength (Parallel to fiber)	Lb <sub>f</sub>	≥ 80	≥ 100	ASTM C-1177
Flexural Strength (Across to fiber)	Lb <sub>f</sub>	≥ 100 ≥ 107	≥ 140 ≥ 147	ASTM C-1177 ASTM C-1396
Racking Strength – dry <sup>1</sup>	Lb /ft	> 540	> 654	ASTM E-72
Humidified Deflection	in	≤ 1/4"	≤ 1/8"	ASTM C-1177
Nail Pull / Nail Pull Resistance	Lb <sub>f</sub>	≥ 80	≥ 90	ASTM C-1177
Moisture Resistance	%	≤ 10	≤ 10	ASTM C-1177
Permeance <sup>1</sup>	perms	40	33	ASTM E-96
R Value <sup>1</sup>	°F•ft <sup>2</sup> •hr/BTU	0.45	0.45	ASTM C-518
Combustibility <sup>1</sup>	-	Noncombustible		ASTM E-136
Flame Spread / Smoke Developed <sup>1</sup>	-	0 / 0	0 / 0	ASTM E-84
Linear Expansion with change in moisture <sup>1</sup>	in/in/%RH	5.03 x 10 <sup>-6</sup>	5.03 x 10 <sup>-6</sup>	ASTM D-1037
Coefficient of Thermal Expansion <sup>1</sup>	in/in/°F	9.43 x 10 <sup>-6</sup>	9.43 x 10 <sup>-6</sup>	ASTM E-228

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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**WARRANTIES, REMEDIES AND TERMS OF SALE** For current warranty information for this product, please go to www.panelrey.com and select the product for warranty information. All sales of this product by Panel Rey are subject to our Terms of Sale available at www.panelrey.com.

**UPDATES AND CURRENT INFORMATION**

The information in this document may change without notice. Visit our website at www.panelrey.com for updates and current information.

**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.