



Manufacturer

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

Description

Due to its superior performance EXTERIOR REY® and EXTERIOR REY® TYPE X gypsum boards are specified for Direct Applied Exterior Finish Systems (DEFS) and Exterior Insulation Finishing System (EIFS) in walls and ceilings as well as for substrate specified for stucco, brick, and stone finishes. They are an ideal substrate for bonding or mechanical fastening of expanded polystyrene systems (EPS) or Extruded Polystyrene Insulation.

Advantages

The EXTERIOR REY® gypsum board is made of special hydrophobic additives which enhance its ability to resist normal climatic conditions when properly covered by primer, base coat and any exterior finishing product, also the EXTERIOR REY® gypsum board has a fireproof core specially treated to enhance its fire resistance when installed according to fire-rated tested assemblies.

Limitations

- EXTERIOR REY® gypsum board is not intended for constant exposure to water. Protect this and all similar materials from adverse effects of cascading water.
- Damaged or deteriorated materials shall be removed from the premises.
- Maximum frame spacing is 24" o.c. for 5/8".
- Avoid any condition that can create condensation on the exterior walls during periods where the outside temperature is lower than the inside.
- EXTERIOR REY® is not a finish product, it must be covered by a finish product according to DEFS or EIFS system.
- Panel Rey® does not guarantee or be held responsible for the performance of exterior finishing applied on the EXTERIOR REY®.
- The suitability and compatibility of any finish system with EXTERIOR REY® is manufacturer's or design authority liability.
- Do not install EXTERIOR REY® gypsum board directly over masonry, use frames or metal slats. It is not designed to be used as a roof.
- Open spaces and deep cavities should be properly sealed. Otherwise it will cause the warranty invalidation.
- The gypsum panels are not a structural element and should not be used as a basis to screw or nail. Fasteners must be flush with the face of the panel, not countersunk.
- Installers should follow good installation practices to avoid spaces between joints, movements of the installed product and infiltrations. Otherwise it will cause the warranty invalidation.

Product Data

Dimensions						
Thickness	Wide	Lengths*	Edge Configuration	UL Type	"R" Value	
1/2" (12.7mm)	4ft (1.22m)	8 - 12 ft (2.44 - 3.66 m)*	Tapered	-	0.45	
5/8" (15.9mm)				ETX	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)	Lbf	≥ 36	≥ 64
Flexural Strength (Across to fiber)	Lbf	≥ 107	≥ 174
Nail Pull Resistance	Lbf	≥ 77	≥ 87
Core Hardness	Lbf	≥ 15	≥ 15
Edge Hardness	Lbf	≥ 15	≥ 15
Average Thickness	in/1000	500 ± 15	625 ± 15
Tapered Edge Depth (Max - Min)	in/1000	20 - 90	20 - 90
Width	in	Nom - 0.13	Nom - 0.13
Length	in	Nom ± 0.25	Nom ± 0.25
End Squareness	in	0 ± 0.13	0 ± 0.13
Core Water Absorption	%	≤ 10	≤ 10
R Value	°F•ft ² •hr/BTU	0.45	0.48

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® EXTERIOR REY panels 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® EXTERIOR REY:

Thickness: 1/2" and 5/8".

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.

Certification Marks:



SUBMITTAL APPROVALS

Job Name _____
 Contractor _____
 Date _____

* For complete warranty details, visit www.panelrey.com

Stamps/Signatures



Part 3: Execution

3.1 FRAMING:

- A. Examine subframing. Verify that surface of framing and furring members to receive sheathing does not vary more than 1/4" from the plane of faces of adjacent members.
- B. Provide EXTERIOR REY® sheathing where indicated on drawings. Install sheathing in accordance with manufacturer's instructions and applicable instructions in GA-253 and ASTM C 1280.
- C. Install EXTERIOR REY® sheathing with black side (no legend) facing out.
- D. Use maximum lengths possible to minimize number of joints.
- E. Wood framing: Attach EXTERIOR REY® sheathing 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 EXTERIOR REY® sheathing 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 CEILINGS AND SOFFITS – SHEATHING APPLICATION:

- A. Apply panels perpendicular to supports, with end joints staggered and located over supports.
- B. Install with 1/4-inch (6.4 mm) open space where panels abut other construction or structural penetrations.
- C. Fasten with corrosion-resistant screws.

3.3 CONTROL JOINTS:

Install control joints at locations indicated on Drawings and if not shown, according to GA-253 or ASTM C1280 and in specific locations approved by Architect for visual effect.

3.4 SHEAR OR FIRE RATED CONSTRUCTION:

Where applicable, provide materials and construction that are identical to those of designs whose fire-resistance ratings are indicated.

3.5 WEATHER-RESISTANT BARRIERS:

No weather-resistant barrier is required for exposure warranty, but may be required by local codes or cladding system specifications.

3.6 EXTERIOR CLADDING APPLICATION:

PANEL REY does not warrant and is not responsible or liable for the performance of the cladding or exterior systems applied over EXTERIOR REY® sheathing. The suitability and compatibility of any system is the responsibility of the system manufacturer or design authority.

3.7 EIFS and DEFS:

EIFS and DEFS, like all other cladding systems, are vulnerable to moisture that enters the cavity through wall penetrations, such as windows, doors, deck attachments, utility pipe chases and at wall/roof intersections. For most residential and some commercial EIFS and DEFS, manufacturers now specify a weather-resistive barrier for additional protection from moisture that penetrates the wall. In addition, manufacturers of windows, doors, flashing and sealants offer instruction on proper installation and maintenance of their products.



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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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.