



# Fire Rey Type C Gypsum Board



# Gypsum Board Fire Rey C

## Description

Panel Rey's Fire rated drywall Type C is a product formed by a fireproof core essentially made of gypsum and reinforced with the addition of high temperature resistant fibers and special additives to provide a higher resistance and performance if compared with the traditional FR product. It is covered in both sides with 100% recycled paper. The paper, in the front, covers the beveled edges to strengthen and protect the core. The ends are carefully grinded in square cut. The Fire Rated Drywall Type C is offered in wide variety of lengths and thicknesses of 1/2" and 5/8". Panel Rey products do not contain asbestos.



Gypsum Brand Tag.

## Basic Applications

Panel Rey® Fire Rated Drywall is used to cover and protect walls and ceilings in residential and commercial construction works, normally requiring of a specific assembly for fire resistance. Due to its natural properties, it disperses fire and heat transfer (natural gypsum contains 21% of water, approximately, which starts to evaporate when heated, delaying heat transfer. The core stays fire-resistant, but it shrinks due to water loss, and cracks appear; to avoid this, we added high-temperature resistant fibers and additives to expand with neutralized heat. This product is designed to be fixed with screws, nails or adhesives directly on wood, metal or already existing surfaces. If joints are coated, this drywall prevents smoke from passing through it

1/2" Thick – Recommended for the application of 1 to 3 coats in dividing walls and columns to protect structural elements. Classified in systems of up to 4 hours of resistance.

5/8" Thick – Recommended for the applications of 1 or 2 coats in dividing walls and ceilings. Classified in systems of up to 4 hours of resistance.

## Limitations

Fire rated drywall is designed to be used exclusively in interiors. Avoid exposure to temperatures higher than 50° C, for example, close to burners, furnaces or heaters. Also, avoid exposure to excessive or continuous moisture, before, during, and after its installation, for example close to pools, saunas or steam rooms. Eliminate moisture sources immediately. Drywalls are not a structural element and must not be used as bases to put a screw or nail on them.

## Handling and Storage

Drywalls do not generate nor cause the growth of mould and fungi when they are properly transported, stored, handled, installed and preserved. Drywalls must be always dry to prevent the development of microorganisms. It must be stored in an area where it is protected from the inclemency of the weather, even where there is work in process.

When transported, it must be protected with a proper cover that is in good condition. The plastic bags that cover the drywall are designed to protect it during its transportation and must be removed once the product arrives and it is unloaded, otherwise it can caused favorable conditions for the growth of mould and fungi.

Do not store drywall on the ground. Sufficient shoe horns must be used to provide the required support and avoid the material to be bulged. Have especial care to avoid damage in the edges of the product and assure a better installation work. Drywall must be always loaded laid down, never on its edges or ends since it is not a stable position and there would risk of accident.

## Good Installation Practices

Installation: Work temperature must be not less than 10° C for the application of adhesives on the drywall when treating joints, texturing and decoration. Proper ventilation in the work area is required.

Decoration: The designer, contractor or proprietor must refer to the Gypsum Association Journal GA-214-97 "Recommended Levels of Gypsum Board Finish" to select the appropriate level of finishing and get the desired result. All surfaces must be clean, free of dust and grease. For porosity between the surface of the paper and the compound to be smooth, it must be treated and sealed with a primer before the final texturing or finishing.

## Applicable Standards

Manufacture:	ASTM C-1396 Section 5 (C-36) ASTM C-36 pursuant to ASTM C-473
Installation:	ASTM C-840
Surface Burning Characteristics:	ASTM E-84 Flame spread 0 Smoke developed 0

## Fire Resistance

The fire resistance performance desired in joint designs is determined by tests made in independent laboratories. These designs are formed by specific materials under a precise configuration. When designs are chosen to meet certain fire resistance standards, make sure each component of the selected design is the one specified in the test and that all material has been assembled pursuant to the requirements.

## Product Data

Nominal Dimensions					
Thickness	Width	Length*	Edge Type	Type Accord to UL	Thermal Resistance "R"
1/2" (12.7mm)	4' (1219mm)	8' - 12' (2438mm - 3658mm)	Beveled	PRC	0.45
5/8" (15.9mm)	4' (1219mm)	8' - 12' (2438mm - 3658mm)	Beveled	PRC	0.48
5/8" (15.9mm)	4' (1219mm)	8' - 12' (2438mm - 3658mm)	Beveled	PRC2	0.48

\* Special lengths are available under request. Some restrictions apply.

Physical Properties													
Properties	Weight	Flexural Strength (Parallel to fiber)	Flexural Strength (Across to fiber)	Nail Pull Resistance	Core Hardness	Edge Hardness	Average Thickness	Tapered Edge Depth (Max-Min)	Width	Length	End Squariness	R Value	UL Type
UNITS	lb/SF	Lb <sub>f</sub>	Lb <sub>f</sub>	Lb <sub>f</sub>	Lb <sub>f</sub>	Lb <sub>f</sub>	in/1000	in/1000	in	in	in	°F-ft <sup>2</sup> -hr/BTU	-
1/2"	2.00	≥36	≥107	≥77	≥15	≥15	500 ± 15	20-90	Nom -0.13	Nom ±0.25	0 ±0.13	0.45	PRC
5/8"	2.34	≥46	≥147	≥87	≥15	≥15	625 ± 15	20-90	Nom -0.13	Nom ±0.25	0 ±0.13	0.48	PRC2
5/8"	2.58	≥46	≥147	≥87	≥15	≥15	625 ± 15	20-90	Nom -0.13	Nom ±0.25	0 ±0.13	0.48	PRC

These Panel Rey® products are classified by Underwriters Laboratories, Inc. pursuant to ASTM E-119 and ASTM E-84 standards.



### Fire Resistance Classification Type PRC

Surface Burning Characteristics  
Flame Spread 0  
Smoke Developed 0

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



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