



Ceiling Drywall



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Description

Ceiling Drywall Ceiling Rey® has a dimensionally stable and fire resistant gypsum core. The core has been especially formulated and reinforced with fiber glass and additives that increase its strength and resistance to deflection (sag resistant), even when installed under extreme moisture and load conditions, and when there is space between supports. Both sides of the panel are covered with 100% recycled paper, in custom colors, and have beveled edges. It weights and costs less than the 5/8" drywall, Type X, but, according to ASTM, offers an equivalent performance when subject to deflection tests under 90° F and 90% moisture. Designed to be sag resistant when installed to ceiling framing or trusses spaced 24" o.c. under a water based texture ceiling applications and an insulation load, reducing installation time and costs.



Gypsum Brand Tag.

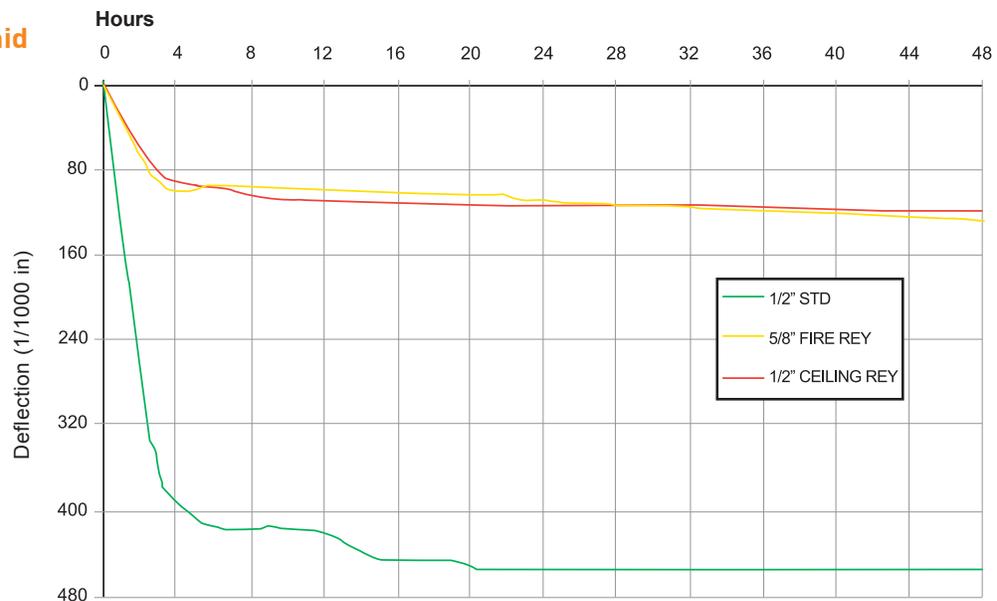
Basic Applications

Ceiling Drywall is a ceiling cover material for new construction sites or remodeling projects. It is designed to be installed on wood or metal framing through drywall nails or screws. Also, it is designed to be a versatile and cost effective sag resistant alternative to 5/8" Type X drywall, due to its good resistance to deflection under extreme conditions. It can be installed leaving a space of 24" between supports, be applied with water-based texture and still stay straight with no apparent deflection. It may also be used on walls, since its paper surface is well designed to be treated with compound, paint, texture or coating products.

The following chart compares the performance, in terms of deflection under humid conditions, over different drywall samples, after applying a humid texture on the face of the board, an insulation load on the back, and installing the product face down on supports with a 24" o.c. space between them (50% more space that the one recommended for a 1/2" regular drywall). The results show that use of a regular drywall presents an excessive deflection in the first hours of installation, under these conditions, while the 1/2" Ceiling Rey® drywall shows a performance equivalent to a 5/8" Type X drywall. There is a visible deflection around 0.100" in. The saving earnings from a reduction on the number of steel/wood supports required, and the installation time and costs surely are significant.

Deflection under humid conditions (90° F - 90% HR)

Load 2.2 lb/ft2 and the Spray Texture application



Limitations

Ceiling Drywall is not a structural product, and should not be used as a base for nailing or holding heavy objects installed on the walls. It is designed for indoor applications; it must be kept dry and clean, and should not be used in areas where there is an extreme and continuous exposure to moisture, like showers, saunas, steam rooms, or swimming pools. Do not use it in places where temperature exceeds 125° F (52° C) for long periods of time (close to wood stoves, heaters and air-flows). Always seal the board with a layer of high-quality latex primer before applying texture, under adequate ventilation. The insulation load should not exceed 2.2 lbs/ft². Follow the installation recommendations (GA216). When applying other finishing products, room and surface temperatures must be within 50° to 95° F (10° to 35° C), and the area must be properly ventilated.

Handling and Storage

Ceiling Rey® must be stored in a dry area, to prevent mold growth, and horizontally positioned on support surfaces to prevent deflection. Sheets must be carefully lifted by the edges, and moved in an upright position when being installed. Be careful to avoid impacts, unnecessary flexing, and subsequent hits to the edges and corners, as well as scratches on the face of the drywall. It must be stored in adequate covered areas to that may protect the board from adverse weather conditions, condensation and other forms of moisture. Avoid working areas that could expose the drywall to excessive moisture. Protect the drywall with a light cover in good conditions, during its transportation. Do not use any drywall with mold growth.

Good Installation Practices

The Ceiling Rey® drywall is designed to be installed parallel or perpendicular to supports with a 24" o.c., and a maximum of 2.2 lb/ft² of insulation load. Water based products may be applied on it. For frames with a single roof, proper nails are to be placed leaving a space of 7" o.c. for the W and S types. For new constructions or renovations, the steel furring channels can be used. Pay special attention to the construction of frames and their alignment, as this can directly affect the performance and functionality of the product. In case of making layers and garnishing with paint, texture or wall cover, follow the manufacturer's instructions regarding the use of the material.

Applicable Standards

Manufacture:	ASTM C-1396 Section 12 (C-1395)
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	Thermal Resistance "R"
1/2" (12.7mm)	4'(1219mm)	8' - 12' (2438mm - 3658mm)	Beveled	0.45

* 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	Humidified Deflection	Core Hardness	Edge Hardness	Nominal Thickness	Tapered Edge Depth	Width	End Squareness
UNITS	kg/Pz 4x8 lb/MSF	Lb _f	Lb _f	Lb _f	in	Lb _f	Lb _f	in/1000	in/1000	in	in
ASTM 1/2"	N/A	≥36	≥107	≥77	≥5/16"	≥15	≥15	500 ±15	20 a 90 47 ^{29/32} - 48	0 ±0.125	
1/2"	25.8 / 1775	53	164	95	<5/16"	31	21	494	66	±0.05	±0.06



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