QuietRock®

MANUFACTURER INFORMATION:
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QUIETROCK ES-MR
Mold-Resistant Type X Sound Reducing Panel

PABCO® Specification PGS-022

DESCRIPTION:

QuietRock® ESMR (EZ-SNAP® Mold-Resistant) is Type X fire-rated, internally damped sound reducing gypsum panel with added mold inhibiting chemistries. The panels are comprised of a proprietary viscoelastic polymer center, enhanced high density gypsum core manufactured to the Type X requirements of ASTM C1396. The core is bisected to completely eliminate inner layers of paper in the product for enhanced workability.

QuietRock® ESMR panels are encased in a 100% recycled paper on the face, back, and sides. A non-removable edge tape is applied to the long edges folded around both sides of the panel to reinforce and protect the core; the ends are square cut and finished smooth. The long edges of panels are tapered providing a recessed area that allows joints to be reinforced and concealed with joint treatment (joint compound and tape) creating a monolithic decorating surface.

PRIMARY USES:

QuietRock® ESMR sound reducing panels are designed for fire-rated and non-fire rated interior wall and ceiling assemblies. These panels are engineered to replace multiple layers of drywall in assemblies allowing for shorter build and inspection times with minimal impact to usable floor space. QuietRock® ESMR panels are ideal for hospitals, schools, government projects and other mold sensitive applications where sound attenuation performance and fire-resistance are primary considerations. QuietRock® ESMR panels are tested and approved on many UL and ULC fire-rated assemblies and are suitable for new construction or renovation projects.

LIMITATIONS:

- QuietRock® EZ-SNAP Mold-Resistant panels are intended for interior applications, and shall not be stored or applied where there will be direct exposure to water or continuous high humidity before, during, and after construction. Avoid exposure to temperatures exceeding 125° F (52° C) for an extended period of time
- QuietRock® ESMR is a non-structural panel; not intended to be used as a structural fastener base or to support wall or ceiling mounted objects.

APPLICATION:

QuietRock® EZ-SNAP Mold-Resistant sound reducing panels are designed for direct mechanical (nail or screw) or adhesive attachment to wood or metal substrates, or may be attached to existing surfaces using fasteners or adhesives. GA-214 guidelines recommend a level 5 finish for all wallboard partitions decorated with non-flat paints, deep/dark colors and/or in critical lighting conditions. **Install panels vertically on walls to create the optimum finishing and decorating surface.** With the wallboard joints properly treated per GA-216 and GA-214, QuietRock® ESMR panels will resist the passage of smoke. PABCO® Gypsum endorses and recommends the application specifications published in GA-216 (www.gypsum.org) and/or ASTM C840 (www.astm.org) as its application specification that provide detailed instructions on the standard application of wallboard panels and proper joint finishing procedures. For fire and sound rated systems it is important that you consult the appropriate directory or test report for the complete assembly documentation and related information. These systems must be installed in strict compliance with the detailed fire test assembly description, including core types and other components such as studs, fastener spacing and fasteners type and installed as tested. When an assembly is both fire and sound rated, the strictest requirements prevail.

MOLD RESISTANCE:

QuietRock® ESMR products achieved a mold resistance rating of 10 per ASTM D3273 (Standard Test Method for Resistance to Growth of Mold on the Resistance Surface of Interior Coatings in an Environmental Chamber), the highest level of performance for this test method. No material may be classified as mold-proof. Prolonged exposure to moisture can result in the growth of mold on any surface. The use of good design, with proper handling and construction practices, is the most effective and best method to minimize mold. This includes avoiding water exposure during all phases of the project, such as: storage, handling, shipping, and product installation and system maintenance both before and after project completion.

SOUND CONTROL:

QuietRock® sound reducing panels are manufactured using a unique combination of patented technologies including gypsum core and viscoelastic polymers designed for sound control in partitions as compared to standard gypsum panels. In independent laboratory tests per ASTM E90 (Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements), QuietRock® panels improve Sound Transmission Class (STC) ratings on various framing material and design. The application of QuietRock on a floor/ceiling assembly may improve the impact isolation class (IIC) performance as lab tested per ASTM E492 (Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies). Although the word soundproofing is often used within the industry to describe the process of reducing

Job name:

Contractor:

Date:

sound transmission, no material may be classified as soundproof. As with any acoustic treatment, flanking paths (i.e. back-to-back penetrations, poorly sealed openings, or direct room-to-room ductwork) can result in loss of sound reduction. The use of good design, handling and construction practices is critical to any acoustically-rated and/or fire rated assembly. This includes sealing all penetrations and wall perimeter with acoustically rated sealants (i.e. QuietSeal® Pro and QuietPutty®).

FIRE RESISTANT RATINGS:

Fire Resistance Rated Designs are promulgated from tests performed at IAS* certified independent testing laboratories, and these designs include specific materials assembled in a precise configuration. When choosing construction details to achieve specific fire-resistance rated requirements, care must be taken to ensure that each component of the specified assembly is the proper one specified in the referenced fire-resistance rated design, and assembled in accordance with the specific requirements of the assembly. QuietRock® EZ-SNAP® Mold Resistant is third party labeled and inspected by UL and approved fire-resistance rated designs are available on www.quietrock.com.

STORAGE & HANDLING:

Store all QuietRock® gypsum panels flat; do not store on edge as panels are heavy and may fall over causing injury or death. Store in an area that offers protection from adverse weather conditions, condensation and other forms of moisture. Avoid job site conditions that expose gypsum panels to water or moisture. Plastic shipping bags are temporary, and intended for protection during transit only, and shall be removed promptly upon arrival. Store gypsum panels under protected cover, off the ground with sufficient support to prevent sagging. Exercise proper care to avoid impact, scuffing of the paper faces, undue flexing, and damage to board edges, corners, and ends.

WARRANTIES & REMEDIES:

Current warranty information for this product is available online at www.QuietRock.com.

LEGAL NOTICES:

PABCO® Gypsum, the PABCO® logo, what the job demands®, QuietRock®, QuietSeal® Pro, EZ-SNAP® and QuietPutty® are trademarks or registered trademarks of Pacific Coast Building Products, Inc. and licensed to PABCO® Gypsum in the United States and other countries. Products described herein may not be available in all geographic markets. Consult your QuietRock® or PABCO® Gypsum sales representative for information. Product features and Information subject to change without notice.

QUIETROCK ES-MR
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PRODUCT DATA, SIZES & TYPES:

Product	Thickness	Width	Length[1]	Edge Type	Weight[2]	UL Core Type
QuietRock® ESMR	5/8" (15.9 mm)	48" (1219 mm)	8' (2438 mm) 9' (2743 mm) 10' (3048 mm)	Tapered	2.6 lbs/ft²	QRES/Type X

PACKAGING: 1 panel, markings on paper face, non-removable tape on loge edges

[1] Length availability may change; other lengths may be available on a special order basis. Consult with your local QuietRock® or PABCO® representative

[2] Represents approximate weight for design and shipping purposes. A more exact weight may be available for your area; consult with your local QuietRock® or PABCO® representative.

APPLICABLE STANDARDS & TECHNICAL DATA:

QuietRock® ESMR Thickness	5/8"
Manufacturing:	ASTM C1396
Installation:	Gypsum Association GA-214, GA-216 – www.gypsum.org ASTM C840 – www.astm.org
Mold Resistance (ASTM D3273):	10 (highest rating)
Fire-rated ASTM E119:	1 hour, Type X (UL 263)
Surface Burning Characteristics (ASTM E84):	Class A Flame Spread 15; Smoke Developed 0
Combustibility (ASTM E136):	Non-Combustible
Fire-Resistant Assemblies:	Gypsum Association GA-600, Fire Design Manual Underwriters Laboratories, UL Fire Resistance Directory, The Sound Design Guide
STC Rated Assemblies (ASTM E 90):	48-60
Flexural Strength, Load lbf (N) (ASTM C473): Test Method B	
Perpendicular to substrate edge	62
Parallel to substrate edge	104
Humidified deflection (ASTM C473):	-
Water absorption (ASTM C473):	N/A
Thermal resistance R value (ASTM C518):	0.5
Composition:	100% recycled paper face, gypsum core, viscoelastic polymer
Safety Data Sheet SDS:	SDS available at www.QuietRock.com
QuietRock® literature:	"The Sound Design Guide: a transparent resource for sound & fire information"
Recycled Content:	Refer to PABCO® Sustainable Materials Data Sheet for plant specific details.

Visit www.QuietRock.com for product updates and current information.

The International Accreditation Service — IAS — is a non-profit, public benefit corporation and a leading accreditation body in the United States. Internationally recognized, accreditation by IAS makes it easier to market products and services both inside and outside the United States.

NEED HELP WITH A PROJECT OR HAVE QUESTIONS ABOUT QUIETROCK®?
Visit **www.QuietRock.com** or call **(800) 797-8159** to speak with a product specialist.

ACHIEVE DESIGN GOALS LIKE NEVER BEFORE WITH PABCO® GYPSUM!
Contact the PABCO® Gypsum Technical Services Team at **(866) 282-9298**.

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