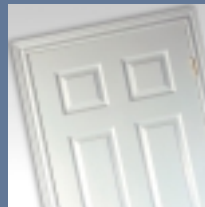
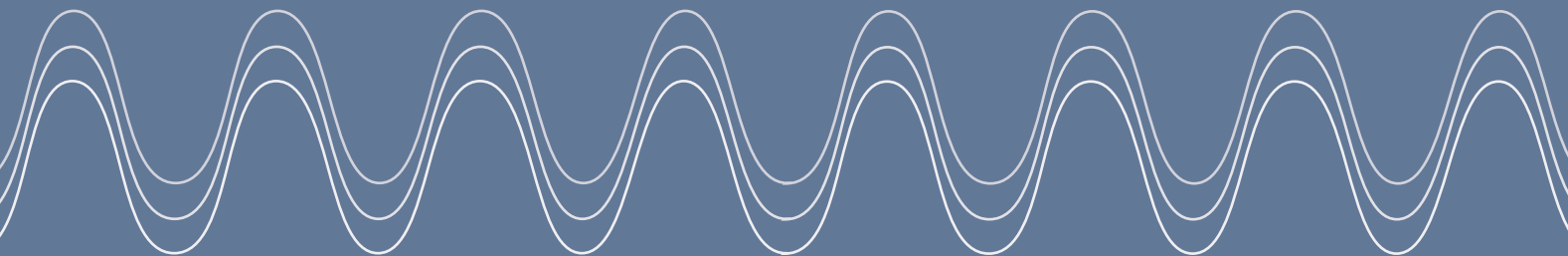


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QUIETZONE® NOISE CONTROL SYSTEM FOR ACOUSTIC SOLUTIONS

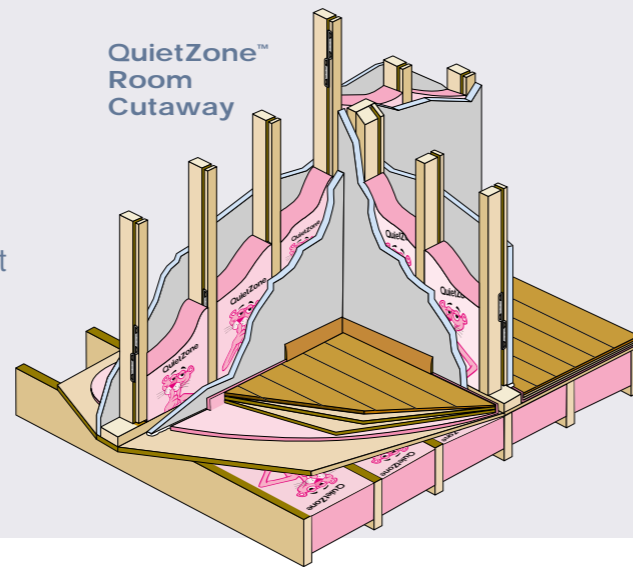




QUIETZONE[®] NOISE CONTROL SYSTEM

Acoustical performance for any interior room configuration

Specifying the QuietZone Noise Control System can make rooms more peaceful. The QuietZone Noise Control System gives designers the freedom to meet specific acoustic specifications for any interior room, without compromising the look. Used individually or together, these noise control products can be used in environments where noise is created or to create privacy where peace and quiet is desired.



QuietZone[®] Acoustic Batt

This fiber glass acoustic batt insulation is engineered to absorb sound vibrations. QuietZone Acoustic Batt can be installed between interior walls, floors and ceilings constructed with standard wood studs or QuietZone Acoustic Wall Framing. They are lightweight and pre-cut for quick and easy installation.



Product Specifications - Wood Frame Construction

Width	Length	Thickness	Pieces per Package	Sq ft/m ²	Linear ft/m
15" / 381mm	93" / 2362mm	3 1/2" / 89mm	16	155 / 14.40	124 / 37.8
23" / 584mm	93" / 2362mm	3 1/2" / 89mm	16	237.6 / 22.08	124 / 37.8

Dimensional Stability	Water Absorption
Linear Shrinkage: Less than 0.1%	Max. by Volume: Less than 0.05%

Fire Safety and Applicable Standards

QuietZone Acoustic Batt complies with ASTM C 665, Type II, Class C. Federal Specification HH-I-521F has been cancelled and is replaced by ASTM C 665. QuietZone Acoustic Batt also complies with the requirements of the Uniform Building Code (UBC) building types III, IV and V; National Building Code (NBC) building types 3, 4, and 5; and Standard Building Code (SBC) building types III, V, and VI.

When installing QuietZone Acoustic Batt in areas containing high temperature appliances, fireplace flues or furnaces, the kraft-facing must be installed in substantial contact with an approved interior material. Protect facing from any open flame or heat source.

Always check with your local building code official regarding local requirements affecting installation of all building components.

QuietZone[™] Acoustic Door System

The QuietZone Acoustic Door System, developed through a joint partnership with Premdor[®], is a Safe 'N Sound unit combined with a QuietZone Acoustic Door Seal Kit designed to reduce perceived noise levels by up to 50%. A 1 1/8" thick door slab will provide an STC rating of 25.



These doors look and feel like solid woodgrain textures and are for interior use only.

Product Specifications

- Pre-hung with split or flat jambs.
- High density Fiberboard raised panel skins.
- Smooth or woodgrain textured surface in several styles.
- Premium Sealing Kit
 - Commercial grade silicone seal gasket
 - Spring-loaded automatic door bottom
- Height — 80", 84", 96"
- Width — 24", 28", 30", 32", 36"

Applicable Standards The test method conformed explicitly to the requirements of the ASTM Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements: ASTM E 90 - 97 and the ASTM Standard Test Method for Laboratory Measurement of the Sound Transmission Loss of Door Panels and Door Systems: ASTM E 1408 - 91.

ASTM E 90: Laboratory Measurement of Transmission Loss [Frequency (Hz)]

Transmission Loss (dB)	Frequency (Hz)									
	100	125	160	200	250	315	400	500	630	800
QuietZone Door	23	23	24	23	23	23	24	23	21	21
Luan Hollow Core Door	12	8	12	11	11	12	11	9	14	12
Transmission Loss (dB)	Frequency (Hz)									
	1000	1250	1600	2000	2500	3150	4000	5000	6300	
QuietZone Door	27	23	22	26	28	30	32	33	34	
Luan Hollow Core Door	8	12	11	11	12	11	9	14	14	

QuietZone[™] Acoustic Wall Framing

Designed to replace conventional wall framing in noise control applications, QuietZone Acoustic Wall Framing combines two sections of Trus Joist[™] TimberStrand[®] LSL connected by several acoustically resilient metal clips. This framing allows walls to be built with better STC ratings, while maintaining nominal wall depths. Therefore, walls can be installed at a lower cost than alternative construction techniques such as resilient channels or staggered studs.



Product Specifications - Maximum Vertical Load (plf) Interior Walls Only

Wall Height	Member Length	2 x 4 Wall On-Center Spacing			2 x 6 Wall On-Center Spacing		
		12"	16"	24"	12"	16"	24"
8'	92 3/8"	1204	837	479	2365	1774	1183
9'	104 3/8"	892	607	331	2365	1774	1183
10'	116 3/8"	671	446	227	2365	1774	1183
12'	144"				1742	1203	680
14'	168"				1179	791	414

Fire Safety and Applicable Standards

QuietZone Acoustic Wall Framing has been tested in accordance with ANSI/UL263, ASTM E 119 and NFPA51 and is listed in the UL (Design No. U368) Fire Directory with a 1-hour fire rating classification (Always follow UL fire directory guidelines).

Two layers 5/8" thick Type X or C gypsum board or 1/2" thick Type C gypsum board is required on both sides of the acoustical wall framing. QuietZone Acoustic Batt is required to fill the stud cavities in both 2x4-stud and 2x6-stud construction. Filling the wall cavity with QuietZone Acoustic Batt also provides fire stopping in lieu of conventional wood blocking. See QuietZone Acoustic Wall Framing Architectural Specifications for more information.

Load Bearing Acoustical Non Fire Rated Performances

2 x 4 QZ Framing & QZ Batts		Wall Depth	STC
16" o.c.	1/2" gyp	4 5/8"	49
24" o.c.	5/8" gyp	4 7/8"	50
2 x 6 QZ Framing & QZ Batts		Wall Depth	STC
16" o.c.	1/2" gyp	6 5/8"	52
24" o.c.	5/8" gyp	6 7/8"	54

Load Bearing Acoustical Fire Rated Performances

2 x 4 QZ Framing & QZ Batts		Wall Depth	STC	Fire Rating
16" o.c.	1/2" gyp	5 5/8"	57	1 hour
24" o.c.	5/8" gyp	6 1/8"	58	1 hour
2 x 6 QZ Framing & QZ Batts		Wall Depth	STC	Fire Rating
16" o.c.	1/2" gyp	7 5/8"	60	1 hour
24" o.c.	5/8" gyp	8 1/8"	63	1 hour

QuietZone[™] Acoustic Caulk

Acoustically engineered to block sound vibrations, QuietZone Acoustic Caulk is a silicone-enhanced acrylic mastic sealant that retains acoustic properties over time and won't dry or harden for the lifetime of the product. It is used for gaps between wall stud plates and the subfloor, around electrical boxes and outlets, around air ducts, doors and windows. The material is well suited for both interior and exterior caulking applications.



Product Specifications

Net 10.1 FL. OZ (300ml). QuietZone Acoustic Caulk rates on average: 3.5 for Flexibility; 3.5 for Durability; 3.5 for Adhesion to Wood; 3.5 for Adhesion to Glass; 3.0 for Adhesion to Metal; and a 3.5 for Adhesion to Masonry. (Rating scale: Superior: 4, Best: 3, Better: 2, Good: 1) Internal and external uses apply to most surfaces.

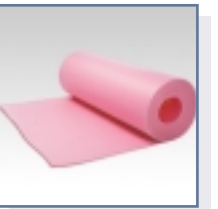
Applicable Standards QuietZone Acoustic Caulk exceeds ASTM C 834 and exceeds performance requirements of TT-S-00230C, Type II, Class B and ASTM C 920, Class 12.5.

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QuietZone[™] Acoustic Floor Mat

Made of lightweight, closed-cell polyethylene foam, QuietZone Acoustic Floor Mat is designed to isolate sound vibration and reduce impact noise. It is applied between the subfloor and a plywood or gypsum concrete overlayment that then 'floats' on the mat. The material is lightweight and easy to cut and install.



Product Specifications

- 3/8" thick x 4' wide x 35' long = 140 sq. ft.
- Packaged in rolls 4' long x 16" in diameter.

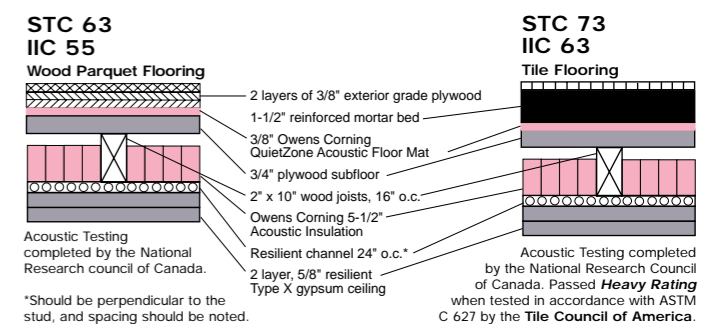
Fire Safety and Applicable Standards

QuietZone Acoustic Floor Mat has been tested in accordance with the following standards: ASTM 627 by the Tile Council of America, Acoustic testing in accordance with ASTM E 492 and ASTM E 90. Thermal barrier and structural requirements are met by using two layers of 5/8" exterior grade plywood or 1 1/2" of gypsum concrete.

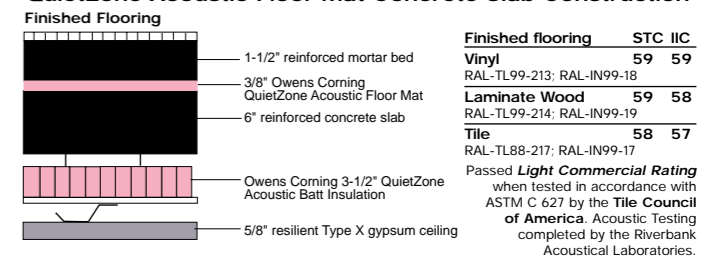
Physical Property Data

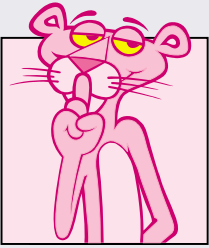
Property	Test Method	Value
Compressive Strength Vertical Direction	ASTM D 3575-93 Suffix D @ 25%/50%	720/1800 (psf)
Compression Set (50% deflection requires a loading of 1800 psf)	ASTM D 3575-93 Suffix B	19% (81% Recovery)
Nominal Density	ASTM C 303	2.2 (pcf)
Water Absorption	ASTM D 3575-93 Suffix L	<0.1 (psf)
Thermal Resistance R-Value	ASTM C 518-85	1.3 (HR-FT ² -F/BTU)

QuietZone Acoustic Floor Mat Wood Frame Construction



QuietZone Acoustic Floor Mat Concrete Slab Construction





Acoustic Glossary Terms:

ASTM: The American Society for Testing and Materials, an organization that standardizes acoustical test methods.

Attenuation: Reduction in sound level.

dBA: The level in decibels when an "A" weighting curve is used to simulate the frequency response of the human ear.

Decibel (dB): A unit used to express differences of sound pressure or intensity.

Frequency (Hz): The measure of the rapidity of alterations of a periodic signal, expressed in cycles per second or Hz.

Impact Insulation Class (IIC): A single-number rating derived from measured values of normalized impact sound pressure levels in accordance with Annex A1 of Test Method E 492. It provides an estimate of the impact sound insulating performance of a floor-ceiling assembly.

Loudness: The subjective response to a sound level.

Noise: Unwanted, bothersome, or distracting sound.

Noise Reduction Coefficient (NRC): The arithmetic average, to the nearest multiple of .05, of the sound absorption coefficients in the 1/3 octave bands centered at 250Hz, 500Hz, 1000Hz, and 2000Hz.

Sound Transmission Class (STC): A single number rating that indicates the sound transmission loss of a partition or ceiling system between adjacent closed rooms.

Underwriters Laboratories (UL): An independent, not-for-profit product safety testing and certification organization.

When sound quality is as important as noise control

The entire Owens Corning QuietZone™ System can be used with SelectSound™ Sound Quality products from Owens Corning for applications where noise control and sound quality are both important. Such applications include home theaters and critical listening environments.

Since inventing the fiber glass technology behind insulation in 1938, Owens Corning has been active in acoustic research and product development. Our acoustic lab in Granville, Ohio serves as a resource for companies needing acoustic expertise. It is NVLAP (National Volunteer Laboratory Accreditation Program) certified and is one of the most comprehensively equipped acoustic laboratories in the nation. So builders and homeowners alike need only turn to PINK for the best performing insulation and acoustic products on the market. Owens Corning has developed an Acoustic program specifically for the AIA Continuing Education System (AIA/CES) that reviews Noise Control and Sound Quality fundamentals.

For more information call 1-800-GET-PINK.

When using our QuietZone™ or SelectSound™ Systems for your commercial applications, please reference Conwed Industries, also in this section (09510/CON), a division of Owens Corning.

Owens Corning Web Site

For extensive information on all Owens Corning products, applications and System Thinking™, including the Division 9 binder that covers all acoustic products, reach us online at:

www.owenscorning.com

Customer Service Representatives

Owens Corning is committed to providing the quickest and most effective response to your requests. We will answer your questions about our products, specifications, building codes and fitness for use. To speak with a Customer Service Representative, or to request our Division 9 binder with comprehensive information about our acoustic products, call us at:

1-800-GET-PINK
1-800-438-7465



SYSTEM THINKING®
Makes the Difference

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TOLEDO, OH 43659**

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