

Product Data Sheet



QuietZone® Acoustic Floor Mat



Polyethylene foam Acoustic Floor Mat designed to isolate sound vibrations and impact noise in flooring applications for noise control.

QuietZone® Noise Control System

The home is a series of systems, and with the System Thinking™ approach to building, different areas of the home will perform more effectively. Rooms built with the QuietZone Noise Control System provide a more peaceful home. Owens Corning QuietZone Acoustic Floor Mat is an essential part of the complete QuietZone Noise Control System. The system uses QuietZone acoustic products to effectively manage sound and control noise by incorporating four basic acoustic principles:

- QuietZone Acoustic Batts **absorb** sound vibration
- QuietZone Acoustic Wall Framing **breaks** sound vibration
- QuietZone Acoustic Sealant and the QuietZone Acoustic Door System **block** sound vibration
- QuietZone Acoustic Floor Mat **isolates** sound vibration

The system greatly reduces noise transmission from laundry rooms, entertainment rooms, family rooms and other areas where noise is created. It can also be used to create privacy in home offices, master bedrooms or other areas where peace and quiet is desired.

System Benefits

- Differentiate the homes you build with increased performance
- Increase sales by offering unique up-sell options
- Provide homeowners with quieter, more peaceful living conditions
- Enhance your image by positioning yourself as an acoustic solutions expert
- Save homeowners time and money by suggesting noise control prior to new home construction compared to retrofitting at a later date

Layered Performance

QuietZone Acoustic Floor Mat, composed of a lightweight, closed cell, polyethylene foam, is specially designed to reduce structure-borne sound, isolating it to the room in which it's created.

It is placed between the subfloor and a plywood or gypsum concrete overlayment to create an isolation layer for sound vibrations and impact noises such as foot traffic. The plywood or gypsum concrete overlayment, once installed, "floats" on top of the floor mat providing a rigid surface for the finished flooring.

Product Attributes

QuietZone Acoustic Floor Mat features these properties:

- Acoustically engineered to isolate sound vibrations and impact noises
- Retains acoustic properties over time

- Resistant to moisture, mould and fungus
- Lightweight, easy to cut and install

Product Applications

QuietZone Acoustic Floor Mat is specially designed for use with the complete QuietZone Noise Control System. It can also be used to isolate both structure-borne and air-borne sound in standard flooring applications. This allows you to offer homeowners varying degrees of noise control effectiveness.

Enhanced Noise Control with QuietZone Acoustic Batts and QuietZone Acoustic Sealant

Installed beneath a double layer of exterior grade plywood or gypsum concrete and finished flooring, QuietZone Acoustic Floor Mat isolates and minimizes structure-borne noise from transferring to adjacent areas or rooms. Adding QuietZone Acoustic Batts and QuietZone Acoustic Sealant will enhance noise control properties (see Figure 1).

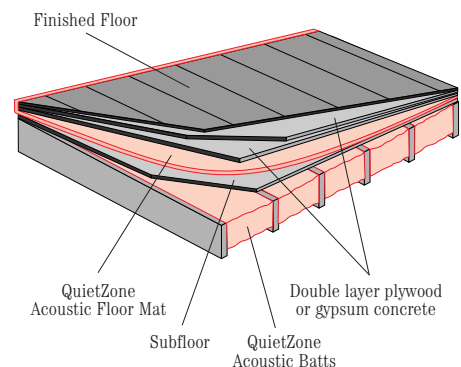


Figure 1

Subfloor, QuietZone Acoustic Floor Mat, double layer of 3/8" (9.5 mm) exterior-grade plywood or 1/2" (12.7 mm) when using hard wood finish flooring or 1 1/2" (38 mm) gypsum concrete, finished flooring and QuietZone Acoustic Batt insulation. QuietZone Acoustic Sealant is used to seal all gaps and penetrations.

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Optimum Wall and Floor Construction

Building with optimum wall and flooring construction together can provide the most effective noise control performance.

For information on alternative floor and wall construction techniques, contact your Sales Representatives or see QuietZone Acoustic Batts (Pub. no. 30011814) or QuietZone Acoustic Wall Framing (Pub. no. 30011929).

To achieve maximum acoustic performance, QuietZone Acoustic Sealant should be used to seal all gaps and penetrations. This includes:

- Areas around doors, windows and other openings
- Around air ducts, diffusers and boots
- Openings around plumbing, electrical boxes and ceiling fixtures
- Gaps between sub floor and framing base plates

Product Installation

- QuietZone Acoustic Floor Mat must be installed on a clean, dry, level surface, (i.e., a standard wood subfloor or concrete slab)
- Roll out QuietZone Acoustic Floor Mat across the floor and turn up the mat along each wall so that 3-4" (75-100 mm) of the mat rests against the outer layer of the wall
- Install an overlayment made of either two staggered layers of 3/8" (9.5 mm) or 1/2" (12.7 mm) exterior grade plywood (glued and screwed together for stability) or 1 1/2" (38 mm) gypsum concrete
- Make sure that there are no attachments or penetrations through the QuietZone Acoustic Floor Mat

- Install finished floor
- Trim away excess mat and install based board or trim

Note: Refer to product packaging for complete installation instructions.

Fire Safety & Applicable Standards

QuietZone Acoustic Floor Mat has been tested in accordance with ASTM E-84.* The flame spread index is 20 and the smoke developed index is 50. Thermal barrier and structural requirements are met by using two layers of 3/8" (9.5 mm) exterior grade plywood or 1 1/2" (38 mm) of gypsum concrete.

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

* ASTM E-84 is a standard used to measure and describe the properties of materials, products or assemblies in response to heat and flame under controlled laboratory conditions using proper construction techniques and assembly. Improper installation can adversely affect fire performance.

Product Specifications

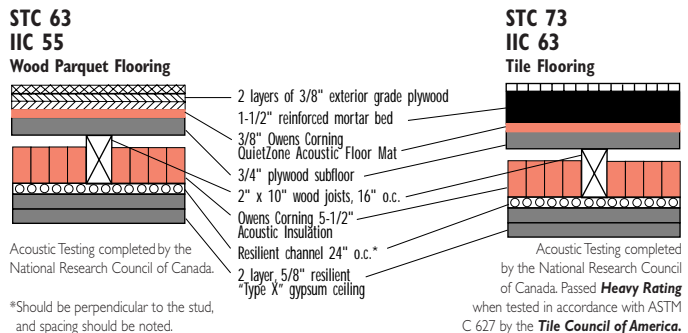
QuietZone Acoustic Floor Mat

- 3/8" (9.5 mm) thick x 4' (1,219 mm) wide x 35' (10.7 m) long = 140 sq. ft. (13 sq. m.)
- Packaged in rolls 4' (1,219 mm) long x 16" (406 mm) in diameter

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-FT2-oF/BTU)

QuietZone Acoustic Floor Mat Wood Frame Construction



QuietZone Acoustic Floor Mat Concrete Slab Construction



Owens Corning Canada Inc.
3450 McNicoll Avenue, Scarborough, Ontario M1V 1Z5
INFORMATION: Tel: 1-800-GET PINK (438-7465)
Fax: (416) 412-7090
www.owenscorning.com

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