

# QuietGlue®

QG-311



**Soundproof compound for new building construction and renovation. Noise and vibration damping adhesive is engineered specifically for laminating plywood, MDF and drywall. Advanced polymer is formulated non-toxic and anti-fungal. Environmentally friendly. Lab tested.**

Forms a highly effective acoustical barrier which absorbs sound and vibration using constrained layer viscoelastic damping

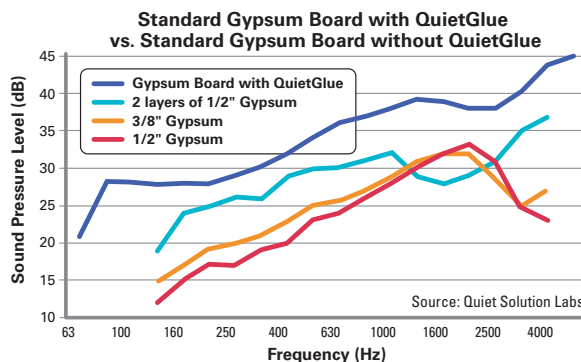
Ideal for creating laminated radius (curved) surfaces that need to be soundproofed

Optionally, may be used for an extra layer of isolation in conjunction with QuietRock or QuietWood

Fully compliant in every state, ultra-low VOCs

Available in 1-gallon, 5-gallon, and 50-gallon containers

- A highly advanced product. Not simply a noise barrier, but a noise and vibration absorber
- Specifically engineered for use between porous surfaces such as wood, gypsum, drywall, etc.
- Easily applied with trowel or roller
- Typical noise reduction from 8dB to 24dB depending on application
- Tack-free in 1 hour, completely cured in 24 hours



Simple  
Clean  
Fast  
Effective





QG-311

Designed for use as a damping layer in-between plywood, MDF, chipboard or drywall.

Typical applications are; improved transmission loss in doors, walls and partitions, reduction of impact sound in floors, walls and ceilings.

### Description

QuietGlue is a water-based acoustic adhesive, which provides exceptionally high vibration and noise damping properties when used as a constrained damping layer. Typical results are 8dB to 24dB improvement in noise reduction (room to room).

### Damping of Impact Sound Transmission

Walking on a floor made from chipboard or plywood will create a disturbing impact sound in the room or apartment below. By viscoelastic damping of the floor, impact sound transmission can be reduced.

QuietGlue can be used with any type of wood or drywall. You can glue different types or different thicknesses of wood or drywall together. It will also work with only one surface as wood. For example, you can glue wood pieces to sheet metal to damp either material effectively. After a full cure, QuietGlue is a very strong adhesive.

Vibration damping effects of the product are enhanced with curing time and continue to develop extending through several days after application.

Typical construction materials such as plywood, MDF, chipboard and drywall have a very low loss factor, typically in the range of 0.005 – 0.05. This can be increased 10x or more with QuietGlue.

It is reasonable to construct walls with STCs in excess of 60 using QuietGlue in multiple layers on both sides. See application notes for details.

### Examples

- Can be applied to existing construction as a new (thin) layer on the subfloor or on walls and re-covered in drywall
- Especially useful for radius (curved) surfaces
- Can be used in automated production of new products such as pre-damped plywood or speaker cabinets to reduce the total cost of the noise and vibration damping efforts in new construction

### Application of the Product

Apply by trowel or roller, using one gallon per 4'x8' sheet. QuietGlue should be applied uniformly edge-to-edge, directly to a clean, dust-free surface. Apply significant pressure to ensure good contact over the whole surface during drying. A good method to secure adequate pressure is to secure the top board by applying screws with roughly one foot in between. Tools can easily be cleaned in water. Glue dries quickly, so put panels together within 10 minutes.

### Technical Data

<b>Color</b>	Yellow
<b>Odor</b>	No odor after curing
<b>Density</b>	958.6 kg/m <sup>3</sup>
<b>Solid Content</b>	>65 wt%
<b>Viscosity</b>	400,000 centipoise
<b>Fully Compliant</b>	Ultra low VOCs (25g/l)
<b>Flash Point</b>	Above 250°F (121°C) Note: Will not burn
<b>Apply at</b>	45°–100°F (7°–38°C)
<b>Layer Thickness</b>	1/16" (~1.5mm)
<b>Drying Time</b>	24 hours (4 hours tack free)
<b>Coverage</b>	32 sq. ft./gal @ 1/16" thick Recommended: One gallon per 4'x8' sheet (32 sq. ft.) at 1/16"
<b>Storage Temp</b>	40°–100°F (5°–38°C) Do not freeze
<b>Shelf Life</b>	One year
<b>Container Size</b>	1-, 5- and 50-gallon containers
<b>Weight (wet)</b>	9.1lbs/gal
<b>Weight (dry)</b>	5.2 lbs/gal



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