keene
noise control products

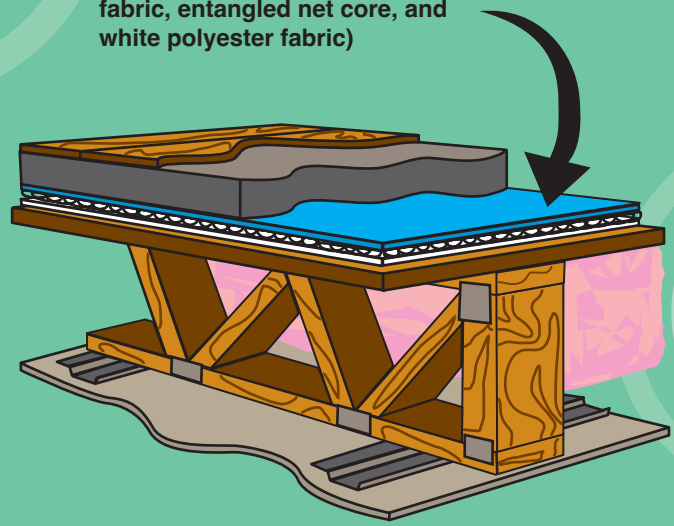
Quiet Qurl® MT Products
With Muffling Technology Enhancement

The “MT” products has been installed in several million square feet of multi-family housing, and the concept has been acknowledged officially under patent protection by the US Patent office.

Sound mat muffling technology or “MT” uses a high loft fabric that weights very little and compresses with a low amount of pressure. When loaded with an underlayment such as gypsum concrete in a sound control application, the performance is dramatically enhanced. The “MT” product addition can make 1/4” sound mats perform like 3/4” sound mats through the lessening of the decibel level in the critical lower frequencies. The MT product enhancement has been used extensively in mill building rehab applications.

The new muffling technology is available on all Quiet Qurl® sound mat thicknesses.

Quiet Qurl® MC MT
(Three layers: moisture control fabric, entangled net core, and white polyester fabric)



- **A point-bonded, moisture-resistant fabric is laminated to the surface so that gypsum concrete and other materials can be placed to create a floating floor**
- **The MT addition will create an additional 5 IIC points for the assembly, verses the standard version. In laboratory tests, QQ 55/025 MC MT reduces 3 to 5 dB between frequencies of 125 to 2500 Hz**

PATENTED KEENE INNOVATION

Patent No.: US 7,096,630 & US 8,146,310

Benefits

- Prevents the buildup of air pressure in the spring “entangled net” structure
- Available option for all QUIET QURL® versions
- Adds less than 0.3 ounces per square foot in weight
- A Class A fire-rated product
- It passes a Robinson Wheel Test with 1.0-inches (2.54 cm) of gypsum concrete and a minimum light commercial rating

Quiet Qurl® MT products are 0.125-0.75 inches thick (3-19 mm) and sold in 50 –100-foot-long (200 – 400-sq.-ft.) rolls

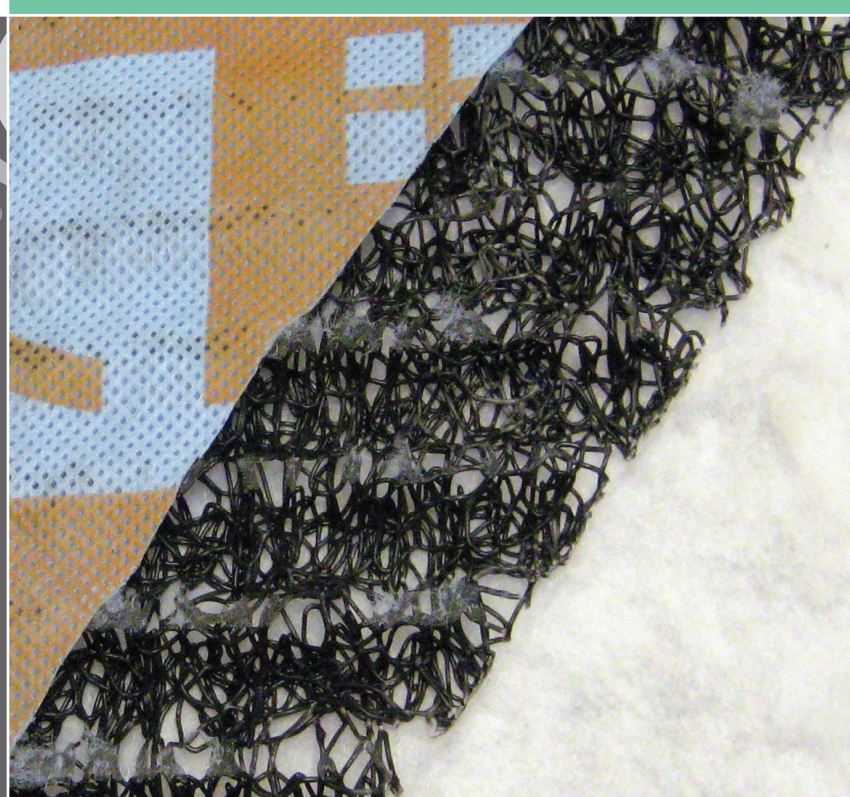


Photo: Quiet Qurl® 55/025 MC MT

Quiet Qurl® MT Products

Product	Thickness	Length	Area
Quiet Qurl 52/013 MC MT	0.125 in./3.0 mm	100 ft.	400 sq. ft.
Quiet Qurl 55/025 MC MT	0.25 in./6.0 mm	50 ft.	200 sq. ft.
Quiet Qurl 55/025 N MT	0.25 in./6.0 mm	100 ft	400 sq. ft.
Quiet Qurl 60/040 MC MT	0.40 in./10.0 mm	50 ft.	200 sq. ft.
Quiet Qurl 65/075 N MT	0.75 in./19.0 mm	50 ft.	200 sq. ft.

Accessory Product

Quiet Qurl Perimeter Isolation	0.125 in./3.0 mm	550 ft.	183.3 sq. ft.

For a complete list of all our products, please contact KBP, or visit our website at ***www.KeeneBuilding.com***

Applications

- Multi-family wood frame and concrete applications
- For high-end results in a nominal 0.25” sound mat
- Works with gypsum underlayments from 1.0” in thickness and greater

How it Works

The first step of controlling impact noise is to limit touching.

Quiet Qurl® is a product that prevents contact in over 90% of the areas. Still, the space that it creates pressurizes and passes vibration waves through to the subfloor. By eliminating the pressure in the cavity, Quiet Qurl® creates the best means of secondarily controlling impact noise by adding a highly compressible non-woven fabric to the bottom side of the sound mat. This muffling technology limits the air pressure buildup in the cavity, and enhances IIC performance by 3 to 5 points. This is especially effective in the lower frequencies from 125 to 500 Hz. These octave bands are critical to enhancing performance of the system.

QUIET QURL is a component in an overall floor/ceiling assembly. Its performance is affected by every other component and the likelihood of achieving code compliance is contingent upon many other trades including framers, plumbers, drywall contractors to name a few. Developers and general contractors are responsible for building properly and testing field performance as soon as possible in order to assure the reliability of the project.

WARNING: Laboratory tests are not a guarantee of field performance because of the issues noted above and many other design errors that may occur. Please consult a professional acoustical consultant to assure plans are proper and that the floor/ceiling assembly can perform to expectations.

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