



Quiet Qurl® 65/075 Products

Quiet Qurl® 65/075 products are ultra high-performance sound mats.

Quiet Qurl® 65/075 has extra thickness and is used with the extra mass of a 1.5" gypsum concrete (monofilament-reinforced) underlayment. This system is the perfect solution for rehab loft projects.

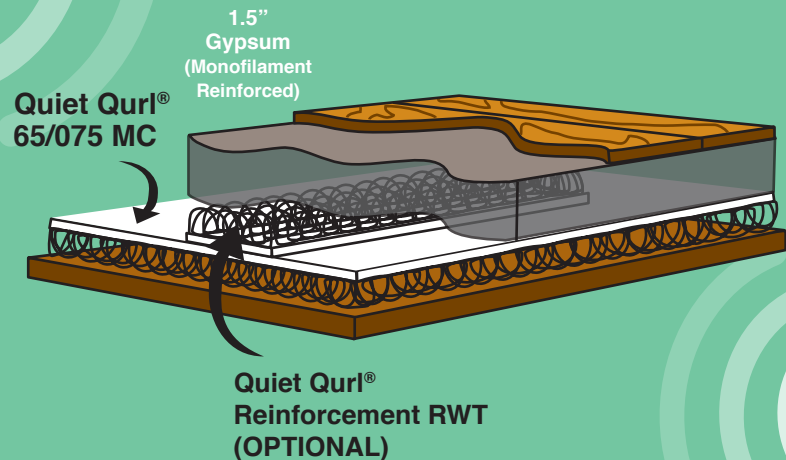
Overall, Quiet Qurl® 65/075 can add 35 points in IIC over concrete, and will perform 6 to 8 points higher than a quarter-inch mat.

Benefits

- ✓ A perfect solution for retrofit application, in wood beam construction and poured concrete where noise issues are great
- ✓ Random oriented monofilament design for the greatest resilience and highest noise control available
- ✓ 2.25" (5.63-cm) profile is perfect for high ceiling loft look in which height is not an issue
- ✓ Rolls out flat for ease of installation



Quiet Qurl® 65/075 is 0.75 inches thick (19 mm) and sold in 50-foot (200-sq.-ft.) rolls

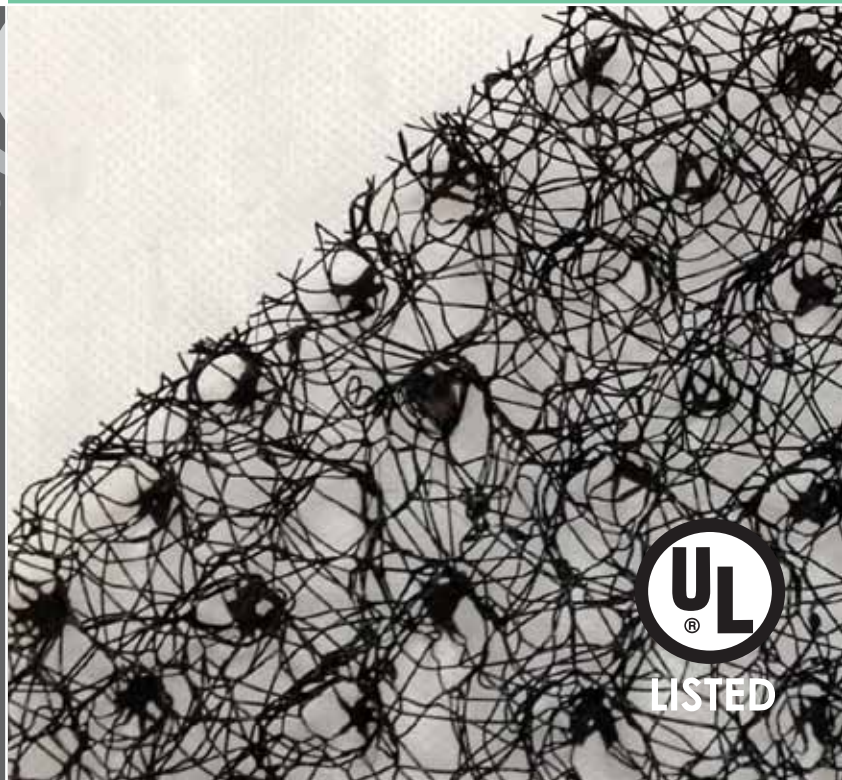


- ✓ Nylon polymer core of tangled monofilaments
- ✓ Fabric options include: white moisture control, reinforced, or muffling technology
- ✓ Class A fire-rated

Quiet Qurl® Reinforcement RWT is a 0.375-inch (9-mm), random-filament, geometric patterned core crack suppression mat used to reinforce gypsum concrete and many types of concrete in thin applications.



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



Quiet Qurl® 65/075 Products



Product	Thickness	Length	Area
Quiet Qurl 65/075 MC	0.75 in./19.0 mm	50 ft.	200 sq. ft.
Quiet Qurl 65/075 N MT	0.75 in./19.0 mm	50 ft.	200 sq. ft.
Quiet Qurl 65/075 N RF	0.75 in./19.0 mm	50 ft.	200 sq. ft.
Quiet Qurl 65/075 RF MT	0.75 in./19.0 mm	50 ft.	200 sq. ft.
Quiet Qurl Reinforcement RWT	0.375 in./9.0 mm	75 ft.	300 sq. ft.

Accessory Product

Quiet Qurl Perimeter Isolation	0.125 in./3.0 mm	550 ft.	183.3 sq. ft.
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For a complete list of all our products, please contact KBP, or visit our website at www.KeeneBuilding.com

Applications

- ✓ Retrofit applications of old buildings – especially historic tax credit apartments and future condominiums
- ✓ Loft conversions
- ✓ When a resilient ceiling is installed
- ✓ With hard surfaces: concrete, stone, tile, vinyl and hardwood finished surfaces
- ✓ With topping layers, such as gypsum concretes, lightweight concrete, mortar beds and plywood
- ✓ When a ceiling construction is not an option
- ✓ For new construction, the ultra high – performance that condominium developers desire

Note: In all retrofit and loft conversion applications performance should be proven with on-site field tests. No floor/ceiling performance on prior projects can replicate performance on another specific project.

Quiet Qurl® Reinforcement RWT

Quiet Qurl® Reinforcement RWT 040 MC N is a 0.375-inch (9-mm), random-filament, geometric patterned core crack suppression mat used to reinforce gypsum concrete and many types of concrete in thin applications.

The 3/8" (9-mm) thickness is perfect to provide the added strength needed in the assembly when the gypsum concrete is less than traditional depth.

The monofilament helps cracks remain in place so that a tile, marble, stone or vinyl surface can be successfully applied. Quiet Qurl® is a Class A fire-rated product.

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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Section 03 54 13 - Gypsum Cement Underlayment

Impact Sound Control Matting

Recommended Specification for Quiet Qurl® Sound Control Matting

PART I - GENERAL

1.1 Summary

A. Section includes gypsum-cement-based, self-leveling underlayment for application over Quiet Qurl sound mat. System Includes:

1. Self-leveling gypsum cement at a minimum of 2000 psi
2. **Keene Building Products' Quiet Qurl 65/075 MC sound mat**
3. Reinforcement mesh
4. Floor primer
5. Perimeter Isolation Tape

1.2 Submittals

- A. Provide Manufacturer's Data for products specified.
- B. Product certificates.

1.3 Quality Assurance

- A. Self-Leveling Gypsum Concrete Installer Qualifications: Installer who is approved by Keene for application of underlayment products required for this project.
- B. Quiet Qurl Installer's Qualifications: Installation of Quiet Qurl shall be by a trained applicator who has received training from Keene Building Products.

1.4 Delivery, Storage and Handling

- A. General Requirements: Materials shall be delivered in their original, unopened packages, and protected from exposure to the elements. Damaged or deteriorated materials shall be removed from the premises.

1.5 Site Conditions

- A. Environmental Requirements: Before, during and after installation of self-leveling gypsum cement and Keene Building Products' Quiet Qurl sound mat, building shall be enclosed and maintained at a temperature above 50 degrees F (10 degrees C).

PART II - PRODUCTS

2.1 Materials

- A. Gypsum Cement: Gypsum Concrete, which meets the criteria of 2000 PSI as per required by Keene Building Products. All others must receive prior approval.
- B. Entangled net sound mat laminated to a point bonded moisture resistant fabric.

1. Quiet Qurl 65/075 MC as manufactured by Keene Building Products, Mayfield Heights, OH
2. Acceptable alternative which meets the above criteria

- C. Reinforcement Mesh: Keene Building Products' Quiet Qurl RWT or 3.4 lbs./sq. yd. galvanized metal lath.
- D. Sand Aggregate: Sand should meet specifications of the manufacturer of the self-leveling gypsum concrete.
- E. Mix water: Potable, free from impurities
- F. Subfloor Primer: Required by selected manufacturer of self-leveling gypsum concrete
- G. Sealer: Required by selected manufacturer of self-leveling gypsum concrete

PART III - EXECUTION

3.1 Surface Condition

- A. Subfloor shall be structurally sound. Deflection shall not exceed L/360 of the span, including live and dead loads.
- B. Subfloor shall be dry and debris-free; partition walls shall be installed with gypsum wall board in place, and the subfloor should be flat to 0.25" (6-mm) in 100 feet (3 square meters).

3.2 Application of Quiet Qurl 65/075 MC

- A. Quiet Qurl 65/075 MC Installation: Install Quiet Qurl following the manufacturer's recommended installation instructions as provided by Keene Building Products.

- 1. Restrict areas to light traffic or protect Quiet Qurl with 0.75 inch thick plywood

3.3 Application of Cementitious Flooring

- A. General: Mix and apply underlayment components according to manufacturers written instructions.
 - 1. Close areas to traffic during underlayment application and for the time period after application recommended in writing by manufacturer.
 - 2. Coordinate application of components to provide optimum underlayment -to-substrate and Inter-coat adhesion.
 - 3. At substrate expansion, isolation, and other moving joints, allow joint of same width to continue through underlayment.
- B. Thickness of Cementitious Flooring should meet standards provided by Keene Building Products dependent upon type of Quiet Qurl sound mat chosen:
 - 1. Quiet Qurl 65/075 MC: a minimum of 1.5 inches of cementitious flooring
- C. Apply underlayment to produce uniform, level surface.
- D. Cure underlayment. Prevent contamination during application and curing processes.

END OF SECTION

Limitations:

1. Always use perimeter isolation on all walls and penetrations where QUIET QURL will be installed.
2. Always use bulk head to define the area where QUIET QURL will be installed and where carpeted areas with out sound mat will begin (see KEENE IDEA).
3. Compressive strength should be a minimum 2000 psi for gypsum underlayment.
4. Gypsum underlayment can crack at doorways and outside corners, consider reinforcement in those areas.
5. Heavy traffic areas and a confluence of doorways can be prone to cracking, consider reinforcement in those areas.
6. ADA units with constant wheeled traffic can be prone to cracking, consider thicker underlayment, reinforcement and floor finishes that spread the load over a greater area.
7. Field sound tests cannot be guaranteed since each component in the assembly and its installation are critical to overall STC and IIC performance.

LIMITED WARRANTY: Keene Building Products, Inc. warrants to the initial purchaser only that the goods sold hereunder will be free from defects in material and workmanship and, except as otherwise set forth herein, will conform to the specifications provided. If any failure to meet this warranty appears within one year from the date of shipment of the goods, on the condition that Keene Building Products, Inc. will correct any such failure by either replacing or repairing any defective goods, at Keene Building Products, Inc.'s option.

The preceding paragraph sets forth the exclusive remedy for all claims based on failure of or defect in the goods sold hereunder, whether such failure or defect arises before or during the warranty period and whether a claim, however instituted, is based on contract, indemnity, warranty, tort (including negligence), strict liability or otherwise. The forgoing warranty is exclusive and is in lieu of all other warranties whether written, oral, implied or statutory.

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.

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Installation Instructions

Quiet Qurl® and Gypsum Concrete

Noise Control Mats

Prior to Installation

Check wall bottom plate requirements prior to mobilization to job site. Some finished floor heights will exceed that of a single plate wall. Review elevation changes at doorway entrance and at all interior doors, cabinetry and plumbing for transitions and differences. Review any issues with the general contractor. Ensure that the floor is clean and level. Remove gypsum droppings from wallboard installation and smooth any irregularities in plywood/OSB joints by trowel application of joint compound. Patch any holes and fill any joints in the plywood or OSB with patching compound to prevent leaks. Ensure that deflection of subfloor does not exceed $L/360$ or tighter tolerance as per the finished floor system requirements. Look for areas with a confluence of corners and doorways and consider secondary reinforcement.

Quiet Qurl® Installation

1. Quiet Qurl® is laid directly over the concrete, plywood or OSB subfloor, with the black mesh/entangled net facing down and the fabric side up. The Quiet Qurl should be pushed up tightly to the gypsum wall board ; the gap between the floor and wall should not exceed 0.25 inches (6-mm). After installation the isolation barrier should be installed to cover gaps between sound mat and the wall (see below for complete instructions).
Alternatively, the Quiet Qurl can be pushed up tightly to the isolation barrier that was previously installed around the perimeter of the floor. The gap between the floor and wall should not exceed 0.25 inches (6-mm).
2. Quiet Qurl edge must be placed adjacent to other pieces without gap. Remove plastic backing from the Zip-Strip to expose the adhesive edge along the 3 inches (10-cm) fabric overlaps. Firmly press down on the adhesive edge so that the mat remains snug to the fabric on the adjoining Quiet Qurl strip. Adjoin all seams to prevent penetration into the core material during pour. If necessary, cover seams with tape (duct tape or 2" inch wide cellophane tape). Alternatively, spray adhesive such as 3M Super 77 may be used to adhere the fabric overlaps.
3. At all doorways, use extra pieces of scrap Quiet Qurl® as reinforcement by flipping the material black core up.

Perimeter Isolation Barrier Installation

1. For best installation practices, it is recommended that the Quiet Qurl product in use be installed prior to a perimeter isolation barrier such as Quiet Qurl Perimeter Isolation with Quik Stik or another foam strip.
2. In such cases, attach Quiet Qurl® Perimeter Isolation or equivalent with a fast setting adhesive to wall in a "L" shaped form covering seam created between the Quiet Qurl mat and wall. Alternatively, the Quiet Qurl® with Quik Stick or equivalent may be applied directly to wall with fast setting adhesive before the sound mat installation. If done before installation of the Quiet Qurl sound mat then the perimeter must be covered with tape.
3. If Perimeter Isolation is installed straight, use paper wall board tape as a double lap at all corner seams and tape flat to floor and perimeter isolation. SEE Keene IDEAS for details.
4. Wrap the perimeter isolation material around all walls, penetrations and pipes, including cabinetry, plumbing and electrical junctions.
5. For projects in which only hard surfaces receive Quiet Qurl but are completely poured with gypsum concrete transition jabs must be provided with QQ Perimeter Isolation. Jam can be created with wood or "L" termination bar. SEE Keene IDEAS for details.

Primer

Quiet Qurl MC does NOT require a primer. **Only Quiet Qurl RF version products must be primed.** Primer is a re-emulsifiable latex or VAE primer such as GSL® Primer. Coverage rate is approximately 270 ft²/gal.

Please see the back side for more information ----->

Pumping Gypsum Concrete over Quiet Qurl

Start pumping the gypsum concrete to appropriate minimum depth (see chart below).

Different Versions of Quiet Qurl require different thicknesses of **gypsum concretes**:

Versions of Quiet Qurl®	MC	RF	MT
QUIET QURL 52/013	0.75"	0.75"	0.875"
QUIET QURL 55/025	1.0"	0.75"	1.0"
QUIET QURL 60/040	1.0"	1.0"	1.25"
QUIET QURL 65/075	1.5" WITH RWT	1.5" WITHOUT RWT	1.5" WITH RF OR RWT

PRECAUTIONS:

1. Consult gypsum manufacturer for proper water content. Overwatering can cause a breach of the Quiet Qurl fabric.
2. Walk mat installation before pumping, and review all details.
3. Retrofit of old wood construction requires a roofing felt, asphalt emulsion, mastic or poly sheet on the subfloor for moisture leak prevention.
4. After Quiet Qurl mat is rolled out on floor try to minimize traffic before pouring gypsum concrete on top.

For more information or questions on the various Quiet Qurl installation processes, please contact our office: 877-514-5336



Roll out Quiet Qurl mat on the floor with black core touching the adjacent black core, and the fabric flap overlapping the adjacent piece. Edge must be placed adjacent to other pieces without gap.



Remove plastic backing from the Zip-Strip. Firmly press down on the adhesive edge so that the mat remains snug to the fabric on the adjoining Quiet Qurl strip. Adjoin all seams to prevent penetration into the core material during pour.

If necessary, cover seams with tape (duct tape or cellophane tape) or spray adhesive (3M Super 77).



Place Quiet Qurl Perimeter Isolation on all walls at the junction of the Quiet Qurl mat and the wall. Use the spray adhesive on the mat to bond the perimeter isolation permanently at that point. Do not spray on the wall. Place the Perimeter Isolation around all penetrations in a similar manner.



When the adhesive and taping is complete, pump gypsum concrete over top of mat.

See above chart for how much gypsum concrete to pour.

Limitations:

1. Always use perimeter isolation on all walls and penetrations where QUIET QURL will be installed.
2. Always use bulk head to define the area where QUIET QURL will be installed and where carpeted areas without sound mat will begin (see KEENE IDEA).
3. Compressive strength should be a minimum 2000 psi for gypsum underlayment.
4. Gypsum underlayment can crack at doorways and outside corners, consider reinforcement in those areas.
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Product Data

Quiet Qurl® Perimeter Isolation with Quik Stick - 3.5" Easy-Fold

An Accessory Product for Quiet Qurl® Noise Control Mats

Description

Quiet Qurl® Perimeter Isolation with Quik Stick - 3.5" Easy-Fold is an accessory to the Quiet Qurl® sound control system designed to limit flanking sound.

Flanking paths from the floor to the wall are limited by this simple material. The void space is filled so that airborne sound cannot flank either.

Quiet Qurl® Perimeter Isolation with Quik Stick - 3.5" Easy-Fold is 0.125-inches (3.0 mm) thick and 3.5-inches (8.9 cm) wide.

This version has one side with a sticky film attached, and the seam from wall to floor is made by using the Easy-Fold crease.

There are 14 rolls per bundle.

Applications

- ✓ Must be used with all Quiet Qurl® installations
- ✓ Multi-family construction: apartments and condominiums
- ✓ When a resilient ceiling is installed
- ✓ With hard surfaces: concrete, stone, tile and vinyl
- ✓ With structural layers, such as gypsum concrete, lightweight concrete and mortar beds
- ✓ With many types of subfloors and still achieves an IIC of 50 or greater (consult actual tests for assembly details)
- ✓ For applications in which sound system is between 0.25" to 4.0" in depth

Packaging

Description	Means of Measurement English/Metric		Value English/Metric	
Core Width	Inches	CM	3.5	8.9
Length	Feet	Meters	550	167
Area	Square Feet	Square Meters	183.3	17.03
Roll Diameter	Inches	CM	30.0	76.0

See installation instructions for methods and procedures.

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