Installation Instructions

Quiet Qurl® RWT and Gypsum Concretes

A Noise Control Mat

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 a tighter tolerance, as per the finished floor system requirements.

Perimeter Isolation Barrier Installation

1. Attach perimeter isolation, such as Quiet Qurl® Perimeter Isolation or another foam strip, to the wall with a fast-setting adhesive. Fasten in the top quarter of the perimeter isolation. Ensure that the perimeter isolation material is at least 0.50 inch (1.3 cm) greater in height than the finished floor system.
2. Wrap the perimeter isolation material around all walls, penetrations and pipes, including cabinetry, plumbing and electrical junctions.
3. 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. Tape the transition flat to the wall and floor with paper wall board tape as the seam.

Quiet Qurl® RWT 040 Installation

1. Quiet Qurl® RWT is laid directly over the concrete, plywood or OSB subfloor, with the black mesh up and white fabric side down. The Quiet Qurl® RWT should 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 0.75 inches (18-mm).
2. Quiet Qurl® RWT filament edge must be placed adjacent to other pieces without gaps. Hammer-tack the material to the subfloor with enough fasteners to hold it snuggly. Hammer-tack the fabric flap flat. DO NOT use Hammer-tack staples for instalaltion over acoustical mat. Use construction adhesive to attach Quiet Qurl® RWT to acoustical mat. Proceed to the next piece. Ensure that the pieces have core-to-core touching and NO GAP. Ensure that the adjacent piece is overlapped with the fabric flap. Repeat the placement and fastening process until the entire room floor is covered. If product is bonded to a concrete subfloor, use construction adhesive to bond QQ RWT-040.

Primer

The white fabric on the upper surface of the Quiet Qurl® must be sealed. Primer is a latex type such as specified by Keene Building Products. Coverage rate is approximately 300 ft^2/gal (105 m^2/L).

Pumping Gypsum Concrete over Quiet Qurl®

After the gypsum primer becomes tacky, start pumping the Gypsum Concrete to a minimum depth of 0.75” (18 mm) over the Quiet Qurl® RWT-040. Gypsum Concrete must be pumped at a 7” to 8” (18- to 20.5-cm) slump. Ensure that rakes are set up for 0.75” (18-mm) to 1 ½” (3.8-cm), depending on the specification. Do not pump less than 0.75” (18-mm).

Special Precautions

Rehab of old wood requires an asphaltic emulsion to prevent water absorptions.

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.
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.

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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