



ALLIED CUSTOM GYPSUM

# AccuQuiet® C40 Sound Mat

## Submittal Sheet

### Product Description

AccuQuiet®C40 is a member of the AccuQuiet® Sound Control System family of products and is comprised of a water-resistant and breathable technical fabric that is bonded to a flexible, UV stabilized, polypropylene monofilament mesh. The “cuspated” geometry of the monofilament grid is engineered to deliver the highest level of IIC and STC improvement, with minimal loss in compression resistance.

AccuQuiet®C40 is loose-laid over the subfloor and then covered with a uniform thickness of AccuCrete® Pourable Underlayment. No mechanical fastening is required, and the total thickness profile of the system can be as thin as 1 7/8” (47mm) with no reinforcement, and as thin as 1 3/8” (34mm) with reinforcing lath.

### System Benefits

- When used with AccuCrete® Brand Floor Underlayments, impact noise (IIC) can be reduced up to 16 dB in wood frame and 20 dB in concrete assemblies, and with STC improvement of up to 9 dB in wood frame. Refer to the AccuQuiet® Sound Mat Brochure Guide for acoustical test performance data.
- Water-resistant fabric prevents water and AccuCrete® slurry from penetrating through the sound mat to the subfloor.
- Low profile, 3/8” (8.5 mm) thickness.
- Cost-effective noise reduction for new and renovation construction.
- Effective noise control with an endless variety of hard surface floors.
- Flexible and resilient, with excellent compression resistance.
- Because AccuQuiet®C40 is permanently imbedded in the floor-ceiling assembly, noise problems are reduced, even after floor coverings are changed or replaced.
- Full breadth of floor covering options available, including tile, stone, marble, ceramic, and glue-down or floating hardwood...without sacrificing sound control.

### Applications

- Use AccuQuiet®C40 as part of an overall noise control strategy in:
- Multi-Family Construction
    - Apartments
    - Hotels
    - Condominiums
  - Residential and Single Family
  - Light Commercial
  - Renovation of Old Wood Frame or Concrete Structures

### Physical Properties

Description: Water resistant/breathable technical membrane heat-welded to a polypropylene monofilament mesh

Acoustic Performance (refer to AccuQuiet® Design Guide for complete details):  
Wood Frame: Improve IIC from 7-16 dB  
Concrete: Improve IIC from 10-20 dB

Composite				
Weight	EN 965	lb/ft <sup>2</sup> (g/m <sup>2</sup> )	.15 (700)	±10%
Thickness	EN 964-1	in (mm)	0.38 (9.5)	±10%
Weight Per Roll		lb	80	
Roll Area		ft <sup>2</sup>	527	

Compression Resistance		
Force Applied	Percent Residual Thickness	Actual Residual Thickness
2 kPa (42 lb/sf)	100%	8.5 mm
5 kPa (105 lb/sf)	89.0%	7.5 mm



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## Limitations

AccuQuiet® is only one part of an effective overall noise reduction strategy. Although using AccuQuiet® will improve the overall acoustic performance of assemblies, the exact degree of noise reduction cannot be guaranteed, and is largely dependent on the type of floor-ceiling assembly employed. Allied Custom Gypsum Plasterworks®, LLC. recommends consulting an acoustical professional for advice on improving the acoustical performance of buildings that use AccuQuiet® and other measures for sound control.

AccuQuiet®C40 is not a vapor barrier and will not prevent migration of moisture vapor upward or downward through the product. Where moisture conditions exist, appropriate moisture vapor remediation must be installed.

To minimize risk of damage to the poured AccuCrete® underlayment, installation of AccuQuiet®C40 with AccuCrete® is recommended after drywall. Consult a technical representative for advice in situations where installation is required before drywall.

Minimum AccuCrete® Thickness and Compressive Strength Recommendations:

- Residential/Multi-Family Construction: 1.5" (38 mm) AccuCrete® using a 2,000 p.s.i. mix design.
- Light Commercial: 1.5" (38 mm) AccuCrete® using a 3,000 p.s.i. mix design.

## Installation

AccuQuiet®C40 is installed by a contractor licensed by Allied Custom Gypsum Plasterworks®, LLC. The building must be fully enclosed, and a minimum temperature of 50°F must be maintained during and for a period of 5-7 days after the installation of AccuQuiet®C40 and AccuCrete®. Rolls are loose-laid on the subfloor, seams tightly joined and sealed. The perimeter of rooms, adjoining walls, all fixed objects, and mechanical penetrations must be isolated with AccuQuiet® Perimeter Isolation Strip.

All installation requirements and limitations for AccuCrete® will apply. Refer to current AccuCrete® submittal and specifications for full details on AccuCrete® Pourable Underlayments.

## UL Designs

J917	J919	J920	J924	J927	J931	J957	J958	J966
J991	J994	K906	L004	L005	L006	L201	L202	L206
L208	L209	L210	L211	L212	L501	L502	L503	L504
L505	L506	L507	L508	L509	L510	L511	L512	L513
L514	L515	L516	L517	L518	L519	L520	L522	L523
L524	L525	L526	L527	L528	L529	L530	L533	L534
L535	L536	L537	L538	L539	L540	L541	L542	L543
L546	L547	L548	L549	L550	L551	L552	L555	L556
L558	L559	L560	L562	L563	L570	L573	L574	L576
L583	L585	L590	L592	L593	L599	M502		

## Submittal Approvals

Project Name: \_\_\_\_\_

Architect: \_\_\_\_\_

Contractor: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

## AccuQuiet® Limited Warranty:

Manufacturer warrants to the original purchaser that the product is free from manufacturing defects that would adversely affect the performance of the product. Because Manufacturer does not install AccuQuiet, installation or in-situ performance of the product is not warranted. As the sole and exclusive remedy, Manufacturer will either replace any defective product or refund the amount paid for such product, exclusive of any labor or cost of installation or repair. Any claim shall be waived unless received in writing within thirty days after any defect was or reasonably should have been discovered. DISCLAIMER: WE SHALL NOT BE LIABLE FOR, SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES DIRECTLY OR INDIRECTLY CAUSED, NOR ANY LOSS CAUSED BY INSTALLATION OF ACCUQUIET. MANUFACTURER HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES AND CONDITIONS, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES OR CONDITIONS OTHERWISE ARISING FROM COURSE OF DEALING OR USAGE OF TRADE. THIS LIMITED WARRANTY SUPERSEDES ALL OTHER WARRANTIES.