

# AccuQuiet®

## AccuQuiet® D18

### Ultra Low Compression Sound Mat

#### Product Description

**AccuQuiet® D18** is designed to meet the changing needs of sound control in multifamily construction. Rigid vibration isolation technology delivers durability and enhanced acoustic performance in the most challenging of projects.

**AccuQuiet® D18** 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 15/16" (23.8mm).

#### System Benefits

- ✓ When used with as little as 0.75" (19mm) of **AccuCrete®** floor underlayments, impact noise (IIC) can be reduced up to 12 dB in wood frame assemblies. Refer to the **AccuQuiet®** Acoustical Design Guide for acoustical test performance data. For additional information on sound test ratings please contact your local **AccuCrete®** Representative.
- ✓ Water resistant design prevents water and **AccuCrete®** from penetrating through the sound mat to the subfloor.
- ✓ Low Profile mat only 3/16" (4.8mm) thickness.
- ✓ Cost effective noise reduction for new and renovation construction.
- ✓ Effective noise control with an endless variety of hard surface floors.
- ✓ Excellent compression resistance.
- ✓ Because **AccuQuiet® D18** is permanently imbedded in the floor-ceiling assembly, noise problems are reduced, even when floor coverings are changed or replaced.
- ✓ Full breadth of floor covering options available, including vinyl plank flooring, tile, stone, marble, ceramic, and glue-down or floating hardwood, without sacrificing sound control.

#### Applications

Use **AccuQuiet® D18** as part of an overall noise control strategy in:

- ✓ Multi-Family Construction
  - Apartments
  - Hotels
  - Condominiums
- ✓ Residential and Single Family
- ✓ Commercial Office Space
- ✓ Renovation of old wood frame or concrete structures



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#### Physical Properties

Weight	0.197lbs/ft <sup>2</sup> (962g/m <sup>2</sup> ) +/- 10.0%
Thickness	3/16" (4.8mm) +/- 10%

Acoustic Performance	Can improve IIC ratings 6 – 12 db in wood-frame construction. (refer to <b>AccuQuiet®</b> Design Guide for more complete details)
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#### Limitations

Force Applied	Percent Residual Thickness	Actual Residual Thickness (mm)	Actual Residual Thickness (in)
0.0 kPa (0 lb/sf)	100%	4.95	0.195
0.7 kPa (15 lb/sf)	100%	4.63	0.182
2.0 kPa (42 lb/sf)	97%	4.50	0.177
5.0 kPa (105 lb/sf)	96%	4.42	0.174

- ✓ **AccuQuiet® D18** is only part of an effective overall noise reduction strategy. While using **AccuQuiet® D18** will improve the overall acoustic performance of assemblies, the exact amount or minimum performance cannot be guaranteed. Arcosa Specialty Materials recommends consulting with an acoustical professional for advice on improving the acoustical performance of buildings that use **AccuQuiet® D18** and other measures for sound control.
- ✓ **AccuQuiet® D18** 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® D18** and **AccuCrete** after drywall is recommended. Consult a technical representative for advice if installation is required before drywall is installed.
- ✓ Minimum **AccuCrete®** Thickness Compressive Strength Recommendations:
  - ✓ Residential/Multifamily Construction: 0.75" (19mm) using a 2,000 p.s.i. mix design.
  - ✓ Light Commercial: 1" (25.4mm) using a 3,000 p.s.i. mix design is required.

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#### Installation

- ✓ **AccuQuiet® D18** is installed by a contractor licensed by Arcosa Specialty Materials.
- ✓ 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® D18** 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

G577 G578 G579 G580 G582 G592 H502 J917 J919 J920 J924 J927 J931 J957  
J958 J994 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 L526 L527 L528 L529 L530 L533 L534 L535 L536 L537 L538  
L539 L540 L541 L543 L546 L547 L549 L550 L551 L556 L558 L560 L562 L563 L570  
L573 L574 L546 L577 L578 L581 L583 L585 L587 L589 L590 L592 L593 M502  
M503 M504 M506 M508 M513 M519 M530 M535 M538 M544 M550 M553

More designs may be obtained. Contact us at [info@AccuCrete.com](mailto:info@AccuCrete.com)

#### Submittal Approvals

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

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

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

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

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

Notice: All statements and information provided herein are accurate and complete to the best of our knowledge. Acoustical results are based on tests conducted by independent third parties. While the AccuQuiet® product can demonstrate the characteristics claimed, actual results will depend on installation, surrounding materials, testing environment and other factors. AccuQuiet® will meet the published physical properties. Because we do not install AccuQuiet®, we do not warrant the installation or in-situ performance of the product under any circumstance. We shall not be liable for incidental or consequential damages directly or indirectly caused, nor any loss caused by installation of AccuQuiet®. We expressly limit our liability to replacement of defective goods. Any claim shall be waived unless received in writing within 30 days it was or reasonably should have been discovered. AccuLevel®, AccuQuiet®, AccuRadiant®, and AccuCrete® are registered trademarks of Arcosa Specialty Materials. MSDS sheets are available upon request from Arcosa Specialty Materials.