



Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

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Email: sales@acousticalsurfaces.com
Visit our Website: www.acousticalsurfaces.com

We Identify and **S.T.O.P.** Your Noise Problems

Specifications & Test Results QuietFloor™ Underlayment

Materials

Blended synthetic fibers and polyethylene film. Inert hot-melt adhesive.

Weight

20 oz/sq yd (2.22 oz/sq. ft.)

Thickness

0.125"

Density

13.3 lbs/ft³

R-Value

@0.125" = 0.52 hr-ft²-degF/Btu (4.19/inch)

Flammability

Meets or exceeds Federal Flammability Standard: CPSC FF 1-70 (Pill Test)

Sound

Sound Transmission Loss. The sound-insulating property of a partition element is expressed in terms of the sound transmission loss. ASTM E90-97, ASTM E413-87 **Sound Transmission Class (STC) = 52.**

Impact Sound Transmission. The method is designed to measure the impact sound transmission performance of a floor-ceiling assembly in a controlled laboratory environment. ASTM E492-90, ASTM E989-89 **Impact Insulation Class (HC) = 58.**

Field Impact Insulation Class. Field conducted test using standard IIC methods. As tested over 8" post-tension concrete sub-floor with no ceiling assembly. **(FIIC) 60.**

Physical Properties

Compression Resistance @ 25%		9.5psi
Compression Resistance @ 30%		16.6psi
Compression Resistance @ 50%		85.5psi
Breaking Strength	Length	72.1 lbs
	Width	100 lbs
Compression Set @ 25%		8.8%

Moisture

Moisture Absorption

Approx. 650% by weight

Moisture Statement. Quiet Floor™ Underlayment will absorb and allow dispersion throughout the product of water moisture in accumulations not exceeding one gallon per 24 hrs per 300 square feet of product and/or allowed to continue to accumulate for more than 7 days. Actual in-house tests have shown results up to 5 times that amount.



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Quiet Floor[™] **FEATURES/BENEFITS**

- **Sound Absorption.**

Quiet Floor filaments are randomly air-laid creating a capillary affect to cushion the floor, absorb sound, and help make laminate floors sound more like real wood.

Sound Transmission Class (STC) = 52

Impact Insulation Class (IIC) = 58

Field Impact Insulation Class (F-IIC) = 60

- **Moisture Protection.**

When installed properly, Quiet Floor can wick sub-floor or incidental perimeter moisture and disperse it through the pad. Moderate amounts of moisture will eventually dissipate over time by perimeter or sub-floor evaporation, provided the source of water such as a leak is stopped.

- **Smooths out minor sub-floor imperfections.**

Quiet Floor is firm enough (density = 13.3 lbs/ft³; compression resistance @ 25% = 9.5psi) to support the overlaying floor, but flexible enough to form around sub-floor surface roughness that may otherwise cause laminate panels to “rock” or lay unevenly.

- **Adds insulation value.**

Quiet Floor will add an R-Value of .50 to the floor system.

- **Economical.**

Quiet Floor is ideally priced as a quality upgrade from polyethylene or polystyrene film and is less than 1/2 the cost of either cork or rubber underlayment with similar sound numbers.

- **Made from recycled materials.**

Quiet Floor is a “green” product, constructed (over 80%) with post industrial/pre-consumer fibers, materials that may otherwise have been landfilled.

- **Anti-Microbial Properties.**

- 1) Synthetic fibers by their composition do not support the growth of bacteria and fungus.
- 2) The high temperature manufacturing process used to produce Quiet Floor will eliminate live organisms.
- 3) A EPA registered anti-microbial is incorporated in Quiet Floor to control mold or bacteria on the treated product.