



QuietSoundTM

Acoustical Underlayment





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Ratings Per Thickness

ITEM	STANDARD	2mm, 3mm	5mm	6mm	9mm, 10mm, 12mm
Water Vapor Transmission Rate	ASTM E96	4.7 g/m ² /24hr			
Density	ASTM D3576, Section 12	45 lbs./cubic foot			
Compression Resistance	ASTM D3575, ASTM D3676	65 cubic feet			
Compression Set	ASTM D395	10.1% of original deflection			
Coefficient of Friction	ASTM D1894	0.84 wet			
Flammability	Pill Test	Passed			
Durometer	ASTM D2240	Durometer 40 +/-5	Durometer 45 +/-5		
Tensile Strength	ASTM D412	90 PSI	90 PSI	95 PSI	102 +/- 5 PSI
Volatile Organic Compounds	CDPH v1.2	< 0.5mg/m ³			

QuietSound™ products contribute up to **6 POINTS** in two LEED categories

MR - Building Product Disclosure and Optimization: Environmental Product Declarations (Option 1)

MR - Building Product Disclosure and Optimization: Environmental Production Declarations (Option 2)

MR - Building Product Disclosure and Optimization: Sourcing of Raw Materials

MR - Building Product Disclosure and Optimization: Material Ingredients

EQ - Low Emitting Materials

EQ - Sound Transmission Class Test Report



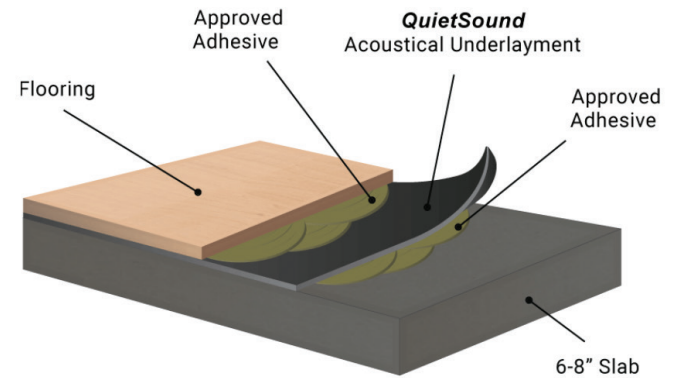
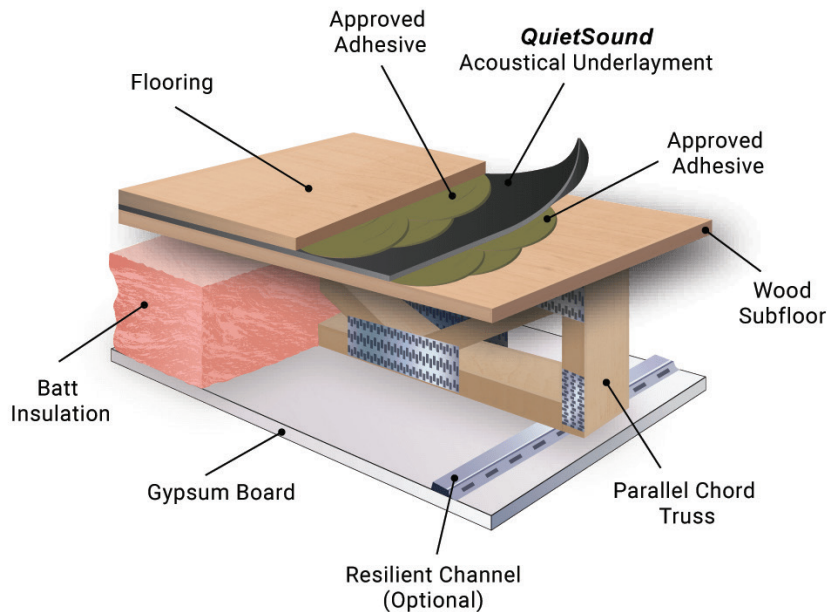
Acoustical Testing

Impact insulation class (IIC) is an integer-number rating of how well a building floor attenuates impact sounds, such as footsteps. One should note, however, that all IIC ratings are not equal. When comparing the acoustical performance of QuietSound™ to other acoustical underlayments, it is critical to note the composition of the products (e.g., rubber (resilient), cork (not resilient) or foam (not resilient)) and the subfloor/flooring assembly of the testing. Unless the test assemblies are identical, it’s an “apples to oranges” comparison that will yield an inaccurate conclusion.

The Delta IIC rating is the best sound rating to consider when comparing the performance of different types of underlayment. It keeps the manufacturers from promoting misleading results obtained by using materials or methods of isolation that the average assembly does not use. This test is only relevant for concrete subfloors.

Underlayment	Flooring Type	Description	STC	IIC	ΔIIC
2mm QuietSound™	Hardwood	2mm quick step wood plank flooring	51	56	23
	LVT	2.05mm Shaw Luxury Vinyl Plank	57	50	19
3mm QuietSound™	LVT	8.2mm Max Core by Provenza	54	56	23
	LVT	8.2mm Max Core by Provenza	51	54	24
	LVT	3.93mm Shaw Luxury Vinyl Plank	55	57	23
	Tile	7.98mm Daltile Ceramic Tile	56	50	18
5mm QuietSound™	Hardwood	14.4mm UA Floors Parisian Collection	53	52	22
	Hardwood	6.77mm Quick Step Wood Plank	53	57	24
	LVT	8.05mm Armstrong Luxe Plank LVT	54	53	21
	LVT	8.05mm Armstrong Luxe Plank LVT	54	54	22
	LVT	8.18mm Max Core by Provenza	53	58	24
	LVT	8.2mm Max Core by Provenza	50	55	24
	Tile	8mm Daltile Ceramic Tile	56	51	19
9mm QuietSound™	Hardwood	12.3mm Affinity Engineered Hardwood	57	52	19
10mm QuietSound™	Hardwood	15.14mm Studio Moderno Engineered	55	51	18
	Hardwood	15.4mm Brentwood White Oak Plank	57	52	19
	Hardwood	15.4mm Brentwood White Oak Plank	56	54	21
12mm QuietSound™	Hardwood	15.3mm Old World by Provenza	57	52	19
	Hardwood	15.3mm Old World by Provenza	55	49	19

Whether used as a floating floor or bonded to the subfloor, QuietSound™ Acoustical Underlayment is the premium solution to abate noise transmission from foot traffic and electronics in multi-story buildings. Acting as a crack suppression membrane, QuietSound™ resists compression while offering superior underfoot comfort. Unlike natural cork and foam, this recycled rubber product will remain permanently resilient and impervious to the elements.



It All Starts with Resilience

QuietSound™ resists permanent compression while offering excellent underfoot comfort. This acoustical rubber underlayment properly deflects compression when put under stress (e.g., the pressure of a footstep) and returns to its original form when not under stress.

Cork and foam underlayment products are not resilient and often remain permanently compressed just after a year of use. As a result, the sound insulation for these inferior underlayment products will decline significantly and rapidly following initial use.

Applications

- Carpet
- Ceramic & Porcelain Tile
- Engineered Wood
- Hardwood
- Laminate
- LVT
- Natural Stone

