



Superior Sound Control With GreenFiber Insulation

Proven Sound Insulation

As proven by independent test results, GreenFiber insulation is extremely effective in controlling sound transmission. GreenFiber's cellulose fibers prove equal, or in most cases, superior to 4-inch Sound Control Batts - a material designed for Sound Control for both Sound Transmission Class (STC) and Outdoor Indoor Transmission Class (OITC) ratings. If you are considering using fiberglass batts but need a few extra STC ratings for an assembly, GreenFiber Natural Fiber Insulation is your solution.

Trends In Sound - Transmission Standards

STC ratings have long been the standard used to evaluate sound transmission inside homes and buildings. GreenFiber insulation provides excellent performance in reducing interior sounds such as radios, televisions, stereos, video games and conversation within the home and in multi-family construction. In addition, OITC ratings are becoming an important standard as well. GreenFiber insulation effectively diminishes sounds from outside such as traffic, lawn tools, airplanes and neighbors' activities.

Numerous Qualities Combine To Offer GreenFiber's Sound-Reducing Effectiveness, Including:

- Inherent density
- Natural tendency to trap air
- Ability to install easily around irregular construction
- Ability to stay in place, fitting snugly against framing members and even moderate slopes

By completely filling spaces where sound can travel, GreenFiber insulation reduces sound that can pass through gaps in batt-insulated walls. It is also ideal for filling spaces in ceilings, between floors and in open attics.

A Growing Concern

Limiting sound around powder rooms, media rooms, bedrooms and any other part of the home where privacy is desired is an important benefit to any home buyer. What's more, the growing trend in urban development, with its higher density housing as well as multi-family construction, makes enhancing privacy more crucial than ever.

By any measure, controlling sound transmission has never been more important. Not only does it ensure the peace and quiet homeowners desire while minimizing annoyances, but it may even have important effects on health. As stated by the World Health Organization (WHO), "The growth in noise pollution is unsustainable because it involves direct, as well as cumulative, adverse health effects." Among the problems potentially affected by noise, the WHO lists sleep disturbance, increased blood pressure and heart rate, cardiac arrhythmia, increased fatigue, depressed mood or well-being, increased stress hormone levels and decreased performance of cognitive tasks.

Addressing The Issue

As concern for environmental noise inside and outside the home continues to grow, taking steps to mitigate its effects will be increasingly important. Clearly, architects, builders and contractors who best manage sound transmission will offer their clients a significant benefit. To this end, GreenFiber is pleased to provide technical information that can help provide this advantage, including details on wall assemblies and their STC/OITC ratings. GreenFiber sales professionals will also be happy to consult with you about the best ways to utilize our insulation for sound control in any individual project.

Please see the reverse side for a comparison of how our cellulose and 4-inch Sound Control Batts perform in certain assemblies when tested at an independent laboratory. For additional information or consultation regarding your projects, please contact GreenFiber at www.greenfiber.com or 1-800 228-0024.

800.228.0024

greenfiber.info@greenfiber.com
www.greenfiber.com

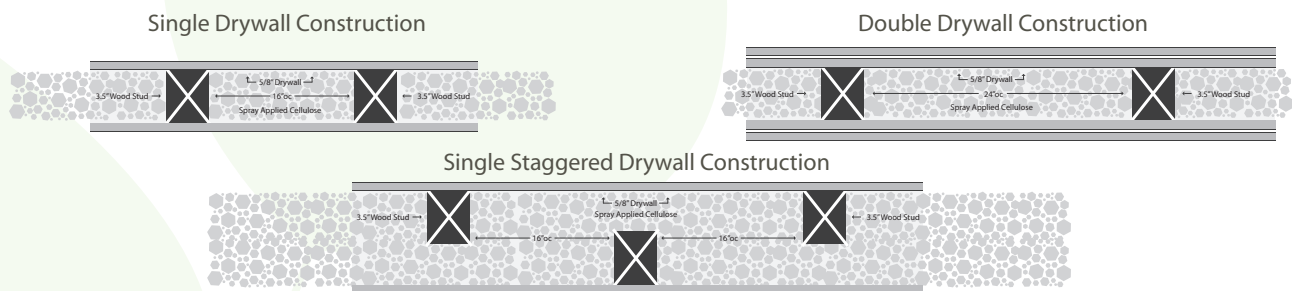
2500 Distribution Street, Suite 200, Charlotte, NC 28203



STC and OITC Ratings of wall assemblies insulated with GreenFiber Insulation

STC	OITC	Insulation	Insulation Type*	Wood Dimension	Stud Spacing	5/8" Drywall Layers	Resilient Channels
30	23	None	N	2"x4"	16" oc	Single	None
33	25	4-inch Sound Control Batt	FG	2"x4"	16" oc	Single	None
35	27	2.6 PCF Spray Applied Cellulose	C	2"x4"	16" oc	Single	None
36	26	Cellulose Dense Pack	C	2"x4"	16" oc	Single	None
35	26	Cellulose Tube Fill	C	2"x4"	16" oc	Single	None
35	26	Cellulose Drill & Fill	C	2"x4"	16" oc	Single	None
44	27	4-inch Sound Control Batt	FG	2"x4"	16" oc	Single	One Sided
44	29	2.6 PCF Spray Applied Cellulose	C	2"x4"	16" oc	Single	One Sided
35	25	None	N	2"x4"	24" oc	Single	None
38	28	4-inch Sound Control Batt	FG	2"x4"	24" oc	Single	None
39	32	2.6 PCF Spray Applied Cellulose	C	2"x4"	24" oc	Single	None
41	30	4.0 PCF Spray Applied Cellulose	C	2"x4"	24" oc	Single	None
46	28	4-inch Sound Control Batt	FG	2"x4"	24" oc	Single	One Sided
48	33	2.6 PCF Spray Applied Cellulose	C	2"x4"	24" oc	Single	One Sided
45	31	4-inch Sound Control Batt	FG	2"x4"	24" oc	Double	None
45	33	2.6 PCF Spray Applied Cellulose	C	2"x4"	24" oc	Double	None
44	36	4-inch Sound Control Batt	FG	Staggered	16" oc	Single	None
48	35	2.6 PCF Spray Applied Cellulose	C	Staggered	16" oc	Single	None
49	37	4-inch Sound Control Batt	FG	Staggered	16" oc	Single	One Sided
52	40	2.6 PCF Spray Applied Cellulose	C	Staggered	16" oc	Single	One Sided

*(N) None, (FG) Fiberglass, (C) Cellulose



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The acoustical tests were conducted in accordance with the following:
 ASTM E 90-09 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions
 ASTM E 413-04 Classification for Rating Sound Insulation
 ASTM E 1332-90 Standard for Determination of Outdoor-Indoor Transmission Class
 ASTM E 2235-04 Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods

