

Submittal Form

All Greenfiber Products



WALL & ATTIC APPLICATIONS

Submitted To: _____

Submitted By: _____

Job Reference: _____

Job Name: _____

Greenfiber Product Attributes

Fire Safety

All Greenfiber Products meet CPSC Flame Spread ($\geq 0.12 \text{ Wcm}^2$) and Smolder Combustion (<15% weight loss) requirements. The products are Class A fire blocking material with ASTM E 84 Smoke Development of <35 in cavities. All products also have ASTM E-84 Flame Spread of <25. Simulated building test have shown that structures insulated with cellulose insulation can stand up to 57% longer in the event of a fire compared to structures insulated with fiberglass batts. And Greenfiber has a number of proprietary Underwriters Laboratories Fire-Resistance Rated assemblies using various products.

Environmental Attributes

To learn more about the long list of Environmental attributes of all these products, please visit Greenfiber's website at www.greenfiber.com/homeowners/what-is-cellulose.

Declared Compliant

All Greenfiber® products are Declare compliant. Declare is a transparency platform that is changing the materials marketplace. It answers the following questions about a product: Where does a product come from? What is it made of? Where does it go at the end of its life?

Declare has been approved as a compliance pathway for the LEED v4 Building Product Disclosure and Optimization Credit, Option 1. The LEED v4 credit calls for the chemical inventory of a product to at least 1000ppm; Declare labels that achieve a declaration status of "Red List Free" or "Declared" fulfill the credit disclosure requirements.

Additionally, any fully disclosed "LBC Compliant" label and any "LBC Compliant" label using the I10-E4 Proprietary Ingredients Exception, with a minimum disclosure threshold of 99.9%, meets the LEED v4 Building Product Disclosure and Optimization Credit, Option 1 reporting requirements.



Declare certifies that Greenfiber will maintain a minimum of 86% recycled content.

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Better Sound Control

Greenfiber Insulation is two to three times denser than other insulation products and it fills gaps and voids in areas where it is applied. These characteristics help protect your home from unwanted noise.

Underwriters Laboratories Classification

All Greenfiber products are UL Classified and carry the Classification mark with the relevant properties and other information on the bags. This is true for both the United States and Canada. See a complete listing of UL assemblies at <https://www.greenfiber.com/builders-architects>



Test Requirements

Greenfiber insulation meets all test requirements of ASTM C739-08 (US), CAN/ULC-S703-09 in Canada, CPSC 16 CFR 1209, 400, FTC 16 CFR 460, 1404, and all FHA, VA HUD and building code requirements. Tests include but are not limited to:

- Corrosiveness
- Fungi Resistance
- Surface Burning Characteristics
- Critical Radiant Flux
- Moisture Vapor Sorption
- Thermal Resistance
- Design Density
- Odor Emission
- Open Flammability
- Separation of Chemicals
- Permanency
- Smoldering Combustion

United States

Product Type	Product Code	Description	R-Value	Minimum Thickness (Inches)		Applicable Standards/ Specifications
				Installed	Settled	
Stabilized Formula	INS500	Designed for new construction or retrofit stabilized attic applications. Made of 85% recycled paper fibers ² treated for fire resistance.	R-19	5.74	5.34	Federal Regulation 16 CFR 1209, 16 CFR 1404, 16 CFR 460. ASTM C- 739, ASTM E-84, Flame Spread Index ≤5, Smoke Developed Index ≤35. UL ER15890-01 Report
			R-30	9.00	8.37	
			R-38	11.32	10.53	
			R-49	14.455	13.44	
All Borate Stabilized Formula	INS735	Designed for new construction spray applied wall applications. Can also be used in stabilized attic, floor and any dry-dense pack applications. Made of 85% recycled paper fibers ² treated for fire resistance.	R-19	5.65	5.25	Federal Regulation 16 CFR 1209, 16 CFR 1404, 16 CFR 460. ASTM C- 739, ASTM E-84, Flame Spread Index ≤5, Smoke Developed Index ≤35. UL ER15890-01 Report
			R-30	8.89	8.27	
			R-38	11.20	10.42	
			R-49	14.45	13.33	
All Borate Stabilized Formula	INS745	Designed for new construction spray applied wall applications. Can also be used in stabilized attic, floor and any dry-dense pack application. Made of 85% recycled paper fibers ² treated for fire resistance.	R-19	5.68	5.28	Federal Regulation 16 CFR 1209, 16 CFR 1404, 16 CFR 460. ASTM C- 739, ASTM E-84, Flame Spread Index ≤5, Smoke Developed Index ≤35. UL ER15890-01 Report
			R-30	8.89	8.27	
			R-38	11.18	10.40	
			R-49	14.428	13.28	

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WALL & ATTIC APPLICATIONS

United States - continued

Product Type	Product Code	Description	R-Value	Minimum Thickness (Inches)		Applicable Standards/ Specifications
				Installed	Settled	
Loose Fill Formula	INS515LD	Designed for new construction or retrofit loose-fill attic and wall applications. Made of 85% recycled paper fibers ² treated for fire resistance.	R-19	5.88	5.29	Federal Regulation 16 CFR 1209, 16 CFR 1404, 16 CFR 460. ASTM C- 739, ASTM E-84, Flame Spread Index ≤5, Smoke Developed Index ≤35. UL ER15890-01 Report
			R-30	9.22	8.30	
			R-38	11.60	10.44	
			R-49	14.82	13.34	
All Borate Loose Fill Formula	INS765LD	Designed for new construction or retrofit loose-fill attic and wall applications. Made of 85% recycled paper fibers ² treated for fire resistance.	R-19	5.86	5.27	Federal Regulation 16 CFR 1209, 16 CFR 1404, 16 CFR 460. ASTM C- 739, ASTM E-84, Flame Spread Index ≤5, Smoke Developed Index ≤35. UL ER15890-01 Report
			R-30	9.19	8.27	
			R-38	11.57	10.41	
			R-49	14.78	13.30	
Premium All Borate Loose Fill Formula	INS773LD	Premium Insulation designed for retro fit dry dense pack walls or loose fill attic applications. Made of 85% recycled paper fibers ² treated for fire resistance.	R-19	5.9	5.3	Federal Regulation 16 CFR 1209, 16 CFR 1404, 16 CFR 460. ASTM C- 739, ASTM E-84, Flame Spread Index ≤5, Smoke Developed Index ≤35. UL ER15890-01 Report
			R-30	9.1	8.1	
			R-38	11.4	10.2	
			R-49	14.5	13.1	
Blow In Fiber Insulation	INS541LD	Designed for loose- fill attic and wall applications. Made of 85% recycled paper fibers ² treated for fire resistance.	R-19	6.19	5.57	Federal Regulation 16 CFR 1209, 16 CFR 1404, 16 CFR 460. ASTM C- 739, ASTM E-84, Flame Spread Index ≤5, Smoke Developed Index ≤35. UL ER15890-01 Report
			R-30	9.57	8.62	
			R-38	11.97	10.77	
			R-49	15.20	13.68	
Blow In Fiber Insulation	INS417LD	Designed for loose- fill attic and wall applications. Made of 85% recycled paper fibers ² treated for fire resistance.	R-19	6.19	5.57	Federal Regulation 16 CFR 1209, 16 CFR 1404, 16 CFR 460. ASTM C- 739, ASTM E-84, Flame Spread Index ≤5, Smoke Developed Index ≤35. UL ER15890-01 Report
			R-30	9.57	8.62	
			R-38	11.97	10.77	
			R-49	15.20	13.63	
Blow In Fiber Insulation	INS441LD	Designed for loose- fill attic and wall applications. Made of 85% recycled paper fibers ² treated for fire resistance.	R-19	6.19	5.57	Federal Regulation 16 CFR 1209, 16 CFR 1404, 16 CFR 460. ASTM C- 739, ASTM E-84, Flame Spread Index ≤5, Smoke Developed Index ≤35. UL ER15890-01 Report
			R-30	9.57	8.62	
			R-38	11.97	10.77	
			R-49	15.20	13.68	
Formula	INS510LD	Designed for new construction or retrofit loose-fill attic and wall applications. Made of 85% recycled paper fibers ² treated for fire resistance.	R-19	5.84	5.25	Federal Regulation 16 CFR 1209, 16 CFR 1404, 16 CFR 460. ASTM C- 739, ASTM E-84, Flame Spread Index ≤5, Smoke Developed Index ≤35. UL ER15890-01 Report
			R-30	9.13	8.22	
			R-38	11.49	10.34	
			R-49	14.71	13.24	

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United States - Wall Spray

			R-Value	Wall Framing	Minimum Thickness	Applicable Standards/ Specifications
Wall Spray	INS375	INS745	R-13	(2x4)	3.50	Federal Regulation 16 CFR 1209, 16 CFR 1404, 16 CFR 460. ASTM C- 739, ASTM E-84, Flame Spread Index ≤5, Smoke Developed Index ≤35. UL ER15890-01 Report
			R-21	(2x6)	5.50	

United States - Dry Dense Pack

				R-Value	Wall Framing	Minimum Thickness	Applicable Standards/ Specifications
Dry Dense Pack	INS417LD INS541LD INS765LD	INS441LD INS735 INS773LD	INS515LD INS745 INS510LD	R-13	(2x4)	3.50	Federal Regulation 16 CFR 1209, 16 CFR 1404, 16 CFR 460. ASTM C- 739, ASTM E-84, Flame Spread Index ≤5, Smoke Developed Index ≤35. UL ER15890-01 Report
				R-21	(2x6)	5.50	

Canada

Product Type	Product Code	Description	R-Value	Minimum Thickness (Inches)		Applicable Standards/ Specifications
				Installed	Settled	
Stabilized Formula Type 2 Open	INS500-CAN	Designed for new construction or retrofit loose fill attic and wall applications. Made of 85% recycled paper fibers ² treated for fire resistance.	RSI 5.6	238	221	CAN/ULC-S703-09 CAN/ULC-S102.2
			RSI 7.0	297	277	
			RSI 7.7	327	304	
			RSI 8.8	374	348	
			RSI 10.6	450	419	
Loose Fill Insulation Type 1 Open Type 1 Closed	INS552OLD-CAN	Designed for new construction or retrofit loose fill attic and wall applications. Made of 85% recycled paper fibers ² treated for fire resistance.	RSI 5.6	248	221	CAN/ULC-S703-09 CAN/ULC-S102.2
			RSI 7.0	310	276	
			RSI 8.81	390	348	
			RSI 10.6	469	418	
Loose Fill Formula Type 1 Open Type 1 Closed	INS550OLD-CAN	Designed for loose-fill attic and wall applications. Made of 85% recycled paper fibers ² treated for fire resistance.	RSI 5.6	248	221	CAN/ULC-S703-09 CAN/ULC-S102.2
			RSI 7.0	310	276	
			RSI 7.7	341	304	
			RSI 8.8	390	348	
			RSI 10.6	469	419	
Stabilized Formula Type 1 Closed Type 2 Open Type 2 Closed	INS735-CAN	Designed for new construction or retrofit loose fill attic and wall applications. Made of 85% recycled paper fibers ² treated for fire resistance.	RSI 5.6	235	219	CAN/ULC-S703-09 CAN/ULC-S102.2
			RSI 7.0	293	274	
			RSI 7.7	323	302	
			RSI 8.8	367	373	
			RSI 10.6	450	411	

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Canada - continued

Product Type	Product Code	Description	R-Value	Minimum Thickness (Inches)		Applicable Standards/ Specifications
				Installed	Settled	
Loose Fill Insulation Type 1 Open Type 1 Closed	INS555-CAN	Designed for new construction or retrofit loose fill attic and wall applications. Made of 85% recycled paper fibers ² treated for fire resistance.	RSI 5.6	246	219	CAN/ULC-S703-09 CAN/ULC-S102.2
			RSI 7.0	304	271	
			RSI 8.8	384	343	
			RSI 10.6	461	411	
Loose Fill Formula Type 1 Open Type 1 Closed	INS430	Designed for new construction or retrofit loose fill attic and wall applications. Made of 85% recycled paper fibers ² treated for fire resistance.	RSI 5.6	248	221	CAN/ULC-S703-09 CAN/ULC-S102.2
			RSI 7.0	310	276	
			RSI 7.7	341	304	
			RSI 8.8	390	348	
			RSI 10.6	469	419	

Definitions:

"Stabilized" in the document refers to blown-in-products that require water to activate an adhesive, for either Stabilized attic or Wall Spray application.

"Loose-fill" in the document refers to blown-in-products that do not require water for application, for either loose fill attic or Dry Dense-Pack application.

¹ This comparison is based on the R-19 R-Value in a one square-foot area and includes the production and energy used in the insulation manufacturing process.