

OPEN UP



A WHOLE NEW MARKET.



AluFiber®. *Better In The Long Haul.*



Are You Ready For The Road Ahead?

Since the first trailers and recreational vehicles appeared in the 1920s, the lure of the open road has called out to millions. RVs have changed a lot since those early days. Today, the industry faces what may be its most fundamental change yet: The challenge of developing vehicles that will continue to attract buyers in an age of high fuel prices and growing environmental concerns. Amerimax is committed to helping you face this challenge by creating exciting new lightweight products that help you compete in this new environment. The challenges are great on the road ahead — but the opportunities are even greater. And Amerimax will be right there with you, every mile of the way.

Latch On To A Bigger Share Of The Market.

As high energy costs continue to push consumers toward smaller, more fuel-efficient vehicles, the repercussions for the RV industry are clear: A higher percentage of people will be driving vehicles that do not have the towing capacity to accommodate the majority of trailers and RVs that are being manufactured today.

In this environment, a decisive advantage will be held by those who offer efficient models that have the amenities customers want — but at a fraction of the weight. How can you significantly reduce weight without sacrificing quality, functionality or luxury? Using stronger, lightweight sidewall materials is an excellent way to accomplish this goal — and AluFiber® lets you do exactly that.



AluFiber®: The Best Of Both Worlds.

AluFiber is an innovative premium solution consisting of a pre-coated aluminum outer surface backed by a layer of fiberglass-reinforced plastic. This unique hybrid product offers the best qualities of both aluminum and fiberglass, creating a broad range of benefits that include:

- Exceptionally light weight — lighter than most luan-backed products.
- The best automotive quality finish on the market today.
- Higher dent-resistance than traditional aluminum.
- Attaches directly to frame, eliminating the need for luan substrate.
- Superior flatness and substantial reduction in “telegraphing” effects.
- Pre-coated colors eliminate the need for costly full-body painting.
- For OEMs that paint, a primer coat eliminates most prep work.
- Formaldehyde-free construction allows you to appeal to eco-friendly consumers.



Lightweight Structure. Heavyweight Performance.

With AluFiber, you can tap into emerging consumer demands by providing them with an array of products that are lighter and more fuel efficient. AluFiber captures the traditional benefits of aluminum, while avoiding many of the shortcomings associated with FRP:



- Does not crack, delaminate, blister or distort.
- Temperature fail rate exceeding 200 degrees Fahrenheit.
- Eliminates yellowing, brittleness or other issues encountered with FRP or plastic solutions.
- High UV-resistance.
- Exceptionally low dirt adhesion.
- Maintains “like new” appearance longer than gel coat surfaces.
- Easily accommodates paint or graphics.
- Available in widths of up to 101.2", enabling one-piece, seamless walls.

The New Lightweight Champion.

Compared to the most widely used RV surface materials, AluFiber offers an unbeatable combination of performance, weight, durability and upscale appeal. Due to its complex fabrication process, this premium product may cost a little more than traditional surfaces. However, this difference is more than offset by AluFiber’s ability to broaden your appeal to a rapidly growing number of consumers who need a lighter weight RV, yet still want a premium, upscale product.

For more information about AluFiber, visit us at www.amerimaxbp.com/alufiber. If you have specific questions on our product specs or manufacturing options, please contact us at www.amerimaxbp.com/contact.

Innovative AluFiber Construction

High Gloss Automotive Painted Finish
Aluminum
Fiberglass
Resin

AluFiber®



AluFiber® Specifications

AluFiber Composition:	AluFiber 0.051"	AluFiber 0.075"	AluFiber 0.099"
Aluminum alloy	3003H46 / 5754H46	3003H46 / 5754H46	3003H46 / 5754H46
Thickness AluFiber (using 0.020" aluminum)	0.051"	0.075"	0.099"
Thickness AluFiber (using 0.024" aluminum)	0.055"	0.079"	0.103"
Thickness aluminum (Width ≤ 86.2")	0.020"	0.020"	0.020"
Thickness aluminum (Width > 86.2")	0.024"	0.024"	0.024"
Thickness FRP	0.031" / ±0.006"	0.055" / ±0.006"	0.079" / ±0.006"
Weight per SF when using 0.020" aluminum	0.51 lb/SF	0.66 lb/SF	0.84 lb/SF
Weight per SF when using 0.024" aluminum	0.57 lb/SF	0.71 lb/SF	0.90 lb/SF
Glass / resin ratio	1:4	1:3	1:3

AluFiber Delivery Possibilities:	AluFiber 0.051"	AluFiber 0.075"	AluFiber 0.099"
Maximum coil length	656 ft	656 ft	394 ft
Maximum coil width	86.2" with 0.020" aluminum or 101.2" when using 0.024" aluminum		

AluFiber Technical Data:	AluFiber 0.051"	AluFiber 0.075"	AluFiber 0.099"
Coil setting Ø inside 23.9"	< 0.12"/ft	< 0.48"/ft	< 0.60"/ft
Minimum bending radius	3.94"	9.84"	11.81"
Coefficient of expansion (F ¹ , 68 – 212°F)	12.8* 10-6		
Dyne value (reverse side)	40-44		

AluFiber Physical Properties:	AluFiber 0.051"	AluFiber 0.099"	Test Method
Izod Impact	21.0 ft-lb/in	16.0 ft-lb/in	ASTM D256
Flexural Strength	20.0 x 10 ³ psi	23.4 x 10 ³ psi	ASTM D790
Flexural Modulus	18.4 x 10 ⁵ psi	21.2 x 10 ⁵ psi	ASTM D790
Tensile Strength	9.8 x 10 ³ psi	14.5 x 10 ³ psi	ASTM D638
Tensile Modulus	46.0 x 10 ⁵ psi	24.0 x 10 ⁵ psi	ASTM D638

Hail Simulations Tests by TÜV Rheinland Group

Fall Speed Material:	75.5 up to 82.0 ft/sec Optical Damage:	82.0 up to 98.4 ft/sec Optical Damage:
AluFiber 0.051"	Yes	Yes
AluFiber 0.075"	Yes, slightly	Yes
AluFiber 0.099"	No	No
Bonnet BMW	Yes, slightly	Yes, slightly
Aluminum 0.024" 3003H46	Yes	Yes

Test results after impact with Ø 0.98" hail stones of 0.016 lb.

The fall speed of a hail stone during a hail storm is approximately 75.5 ft/sec.

This speed may increase up to 98.4 ft/sec in case fall winds occur.

Sidewall Options (Listed in order by weight)

Supplier	Material	Pounds per SF	Wt. in #'s of Wall Skins 22' Trailer*	Wt. in #'s of Wall Skins 38' 5th Wheel**
Amerimax	.024" wide width painted aluminum	0.340	148	221
Amerimax	.030" wide width painted aluminum	0.420	183	273
Amerimax	.051" AluFiber	0.510	222	332
Amerimax	.055" AluFiber	0.570	249	371
Amerimax and OEM	.045" FRP w/ single 2.7mm lauan	0.699	305	454
Amerimax	Fusion gel-coat w/ 2.7mm lauan	0.780	340	507
Amerimax and OEM	.065" high gloss FRP w/ single 2.7mm lauan	0.799	348	519
Amerimax	.099" AluFiber	0.840	366	546
Amerimax	Fusion gel-coat w/ 3.6mm lauan	0.880	384	572
Amerimax	.103" AluFiber	0.900	392	585
Other	CTEC 100	0.940	410	611
Amerimax and OEM	.045" FRP w/ double 2.7mm lauan	1.068	466	694
Other	Gel coat panel w/ 3.4mm lauan	1.150	501	748
Other	CTEC 200	1.190	519	774

Notes: *22' wall is 436 SF **38' wall is 650 SF ■ Competitors

Smart Solutions For The Long Haul.

AluFiber® is a lightweight, upscale RV solution from Amerimax and Euramax, the industry's leading global innovators. For over 50 years, we've been committed to helping the industry find practical and effective solutions that directly address the needs of the market.

This tradition continues with AluFiber. As fuel prices continue to play an increasing role in consumers' vehicle and RV purchases, AluFiber will give you an added advantage in designing, manufacturing and selling products that are lighter, more fuel-efficient, and more in line with the towing capacity of smaller vehicles.

For more information on AluFiber or our other products, contact us at www.amerimaxbp.com/contact or call 1-800-448-4033.



www.amerimaxbp.com/alufiber 1-800-448-4033

All information is offered in good faith, but without guarantee. Since conditions of use are beyond our control, we recommend that the purchaser qualify the product for their intended application.