SUPERIOR SERVICE DEFINES US

Every Decision we make is guided by our overreaching goal to earn your trust through delivering a quality product with service that exceeds expectations.

DuraShield

ALFREX, INC.

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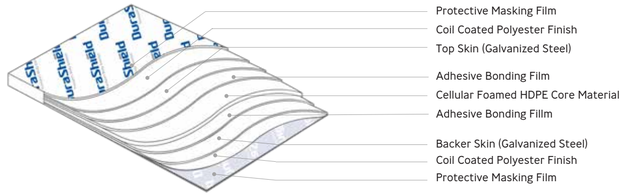
STEEL COMPOSITE PANELS FOR DRY VAN TRAILERS

DuraShield is a high-performance composite laminate solution for manufacturers of dry freight transport trailer vans and storage containers familiar with the performance benefits of steel composite material in sidewall and door panel applications.

Backed by 25 years of expertise, the foundation of DuraShield is its extruded thermoplastic cellular foam core – a proprietary formulation compounded in-house and engineered to maximize strength, weight efficiency, and sustainability. Core material is permanently bonded with high-strength galvanized steel skins and cut-to-length into panels per your requirements.

More than just a product, DuraShield is a product capability and service culture focused on delivering tailored solutions that meet your design, performance, and operational objectives. Customization is not just a possibility; it is our intent – making it the smarter choice for modern trailer body manufacturers.

Product Composition



DuraShield Benefits

Why DuraShield?
Product capabilities & superior service

Experience
25 years of innovation & manufacturing

Convenience
Delivered to your door

Local Presence
Buford, Georgia plant, warehouse, & customer service

Customization
Tailored to your specific needs

Eco-Friendly
100% fully recyclable

Applications

Sidewall Panels
Trailers, RV's, Storage Containers

Door Panels
Both Swing and Roll-Up

Product Specification Range

Properties	Dimensions	Notes
Panel Thickness	0.118" (3 mm) - 0.511" (13 mm)	-
Skin Thickness	0.012" (0.3 mm) - 0.019" (0.5 mm)	Galvanized Steel (G90, 275g)
Core	-	Proprietary Foamed HDPE
Max. Width	≤ 62" (1,575 mm)	-
Max. Length	≤ 20 ft (6000 mm)	-
Standard Finish	-	Pure White Polyester Coating

* We offer customized configurations tailored to your requirements upon request.

Generic Technical Attributes

Specification Panel Thickness* *Skin Thickness*	Flexural Strength (ASTM D790)	Tensile Strength (ASTM D638)	Bonding Strength (ASTM D1781)	Punch Resistence (0.5" Φ punch)	Weight
0.256" (6.5mm)*					
0.016" (0.4 mm) / 0.016" (0.4 mm)	21,756 psi	11,313 psi	› 50 in-lb/in	2,029 lbs	1.97 lbs/ft2
0.020" (0.5 mm) / 0.020" (0.5 mm)	25,526 psi	15,374 psi	› 50 in-lb/in	2,225 lbs	2.29 lbs/ft2
0.295" (7.5mm)*					
0.016" (0.4 mm) / 0.016" (0.4 mm)	18,419 psi	9,863 psi	› 50 in-lb/in	2,048 lbs	2.17 lbs/ft2
0.020" (0.5 mm) / 0.020" (0.5 mm)	22,916 psi	12,328 psi	› 50 in-lb/in	2,284 lbs	2.44 lbs/ft2
0.335" (13mm)*					
0.016" (0.4 mm) / 0.016" (0.4 mm)	13,779 psi	6,237 psi	› 50 in-lb/in	2,379 lbs	2.93 lbs/ft2
0.020" (0.5 mm) / 0.020" (0.5 mm)	13,923 psi	7,832 psi	› 50 in-lb/in	2,466 lbs	3.22 lbs/ft2

1) Contact us for mechanical properties of other configurations.
2) Skin (GI Steel) : ≈ 7.5 kg/cm3, Core (Foamed HDPE) : ≈ 0.68kg/cm3