



MARINE REINFORCEMENT SOLUTIONS

OUR CURIOSITY FUELS YOUR POSSIBILITY

Strong, lightweight, and versatile. Owens Corning® composite solutions have transformed industries. From construction to transportation to energy – there’s no telling where our next innovation will reach.

We aren’t just a world leader in glass science – we innovate productivity, performance, durability, and design flexibility. Our influential innovations are a powerful combination of understanding emerging needs and responsibly creating next-generation solutions.

To meet the demands of a global composites industry, we engineer and develop composites that are used to create some of the strongest, lightest and most versatile materials that transform industries. Our products help make engineered composite material systems that are highly durable, energy-efficient, and lightweight compared to traditional materials such as steel, wood, or concrete. And thanks to our quick and efficient supply chain management practices, we provide high-quality, competitive, performance products to our customers. Supported by a worldwide manufacturing platform that spans three dozen manufacturing facilities and research and development centers, we deliver locally engineered, customized solutions.



REDEFINING MARINE REINFORCEMENTS

At Owens Corning, we support the marine industry with Fiberglass-reinforced polymer (FRP) composite solutions that are safe, reliable, and able to face tough conditions in the most demanding environments. For decades, they have outperformed traditional materials, and will continue to surpass your standards for many years to come.

PRODUCT BENEFITS

PROCESS	APPLICATION/PROCESS DRIVERS	PRODUCT FEATURES
Spray Up	<ul style="list-style-type: none"> • Lower capital requirements • Cost effective thickness • Low to medium mechanical properties • Flexibility for design changes 	<ul style="list-style-type: none"> • Fast wet-out • Ease of rolling • Even glass dispersion for good aesthetics • Low fuzz and fewer process disruptions
Hand Lay-Up	<ul style="list-style-type: none"> • Lower capital requirements • Flexibility for design changes • Medium to high mechanical properties • Consistency in glass reinforcement aerial weight 	<ul style="list-style-type: none"> • Capable of producing good aesthetics • Fast wet-out • Ease of rolling • Drapability /Conformability • Wet carry strength
Infusion	<ul style="list-style-type: none"> • Consistent quality (glass and resin distribution) • Mechanical performance • Lower emissions (lower VOC) • Less part-to-part variability • Larger vessels 	<ul style="list-style-type: none"> • High Permeability • Fast wet-out • Uniform resin flow • Capable of producing good aesthetics • Drapability
Light RTM	<ul style="list-style-type: none"> • High volume production • Consistent quality and cosmetics • Less part-to-part variability • Non-structural, complex parts • Lower emissions (lower VOC) 	<ul style="list-style-type: none"> • Conformability/Stretch-ability • Permeability • Low fiber print • Capable of producing good aesthetics

SMALL PARTS

Spray Up:

Bulk Laminate: Assembled Roving

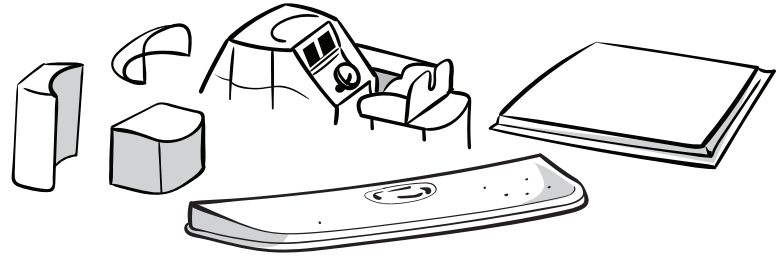
Hand Lay Up:

Skin Coat: Chopped Strand Mat, Veil

Bulk Laminate: Complexes (woven roving stitched with chop), Woven Roving, Fabrics - Multiaxials/Knits

Light RTM:

Skin Coat/Bulk Laminate: Multicore®, Uniconform®, Continuous Filament Mat



STRUCTURAL MEMBERS

Hand Lay Up:

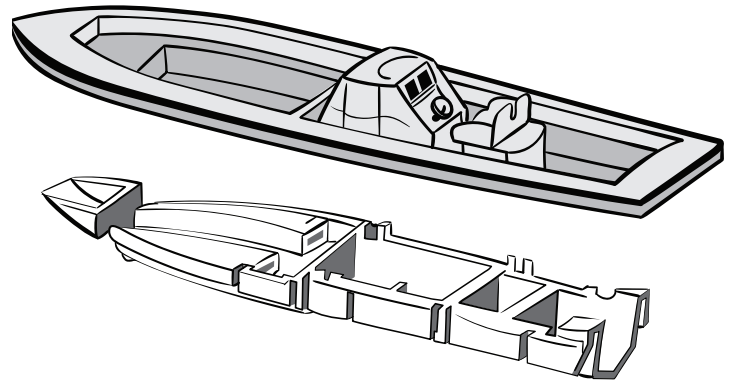
Skin Coat: Chopped Strand Mat

Bulk Laminate: Complexes (woven roving stitched with chop), Woven Roving, Fabrics - Multiaxials/Knits

Infusion:

Skin Coat: Chopped Strand Mat, Veil

Bulk Laminate: Fabrics - Multiaxials/Knits



HULL & DECK

Spray Up:

Bulk Laminate: Assembled Roving

Skin Coat: Assembled Roving

Hand Lay Up:

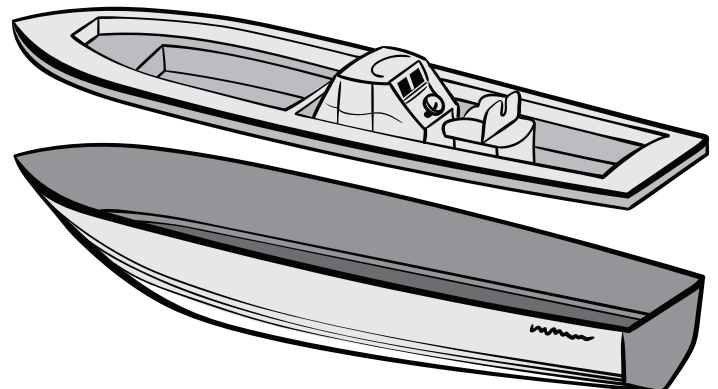
Skin Coat: Chopped Strand Mat, Veil

Bulk Laminate: Complexes (woven roving stitched with chop), Woven Roving Fabrics - Multiaxials/Knits

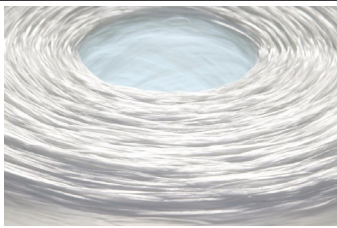



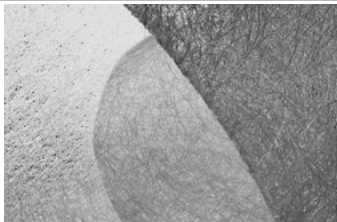
Infusion:

Skin Coat: Chopped Strand Mat, Continuous Filament Mat, Veil

Bulk Laminate: Woven Roving Fabrics - Multiaxials/Knits



OWENS CORNING COMPOSITE SOLUTIONS

ASSEMBLED ROVING	BENEFITS	
P207	Slower wet-out allows more time to work out materials, reduced micronage for better conformability with complex geometries	
Optispray F	Fast wet-out, higher fiber-weight fraction (higher glass content, resin savings, lower emissions). Conformable in complex geometries	
CHOPPED STRAND MAT	BENEFITS	
M123 (Powder based)	Versatile performance, low resin consumption, large/thick parts	
M6X1 (Emulsion based)	Wet carry strength, high tensile strength, large/thick parts	
M505 (Emulsion based)	General purpose, good handling	
M705X1 (Emulsion based)	Low resin consumption and high impregnation speed, easy to tailor, good conformability	
TECHNICAL FABRICS	BENEFITS	
Woven Roving 500 - 800 g/m ²	Cost competitive, conformability, industry standard product, variable width	
Complex 900 - 1200 g/m ²	Combine woven roving benefit with aesthetic finish of chop mat which prevents delamination. Increase productivity, single layer solution	
Multiaxials / Knits LT 600 - 1200 g/m ²	Higher physical properties, better cosmetics (fiber print), structural performance, cost/performance ratio optimization	
Closed Mold Fabrics (Multicore, Multimat)	Better cosmetics, ability to combine with filled resin systems, compression or expansion of fabric to fill mold cavity	
VEIL	BENEFITS	
M524-ECR	Smooth surfacing finish, excellent corrosion resistance	
M524-C	Long fiber based, excellent wet-out and conformability, high surface aesthetics	
CFM	BENEFITS	
Uniconform	Highly conformable binder free mat designed for deep draw and translucent applications	
U800 Series	Tailored to provide the required resin flow and conformability	



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