

Composites

Providing Durable Solutions

Fiber reinforced polymer (FRP) composites are an integral part of our lives – from bikes to boats and bridges to buildings. Composites offer a unique blend of functionality, design flexibility, strength and durability.



Composites are a preferred solution when longevity is a key requirement. Composites do not rust or corrode like metals, rot like wood, or crack and spall like concrete. Composites provide for durable solutions to meet today's demanding material needs.

CompositeBuild.com

Connecting the building industry
to composite materials



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Examples of Composites Providing Durable Solutions



The first ever production fiberglass composite sail boat was a 34 foot Chinook constructed in 1956. It remains a seaworthy vessel and was available for sale (and sail!) in 2013.

Since the first corvette was built in 1953, the iconic vehicle body has been constructed with FRP composites. There were 300 vettes produced in that year, and more than 200 still exist.



Composites are not a new material in aerospace but the large scale application on the Boeing Dreamliner and its 60 year / 44,000 cycle service life is a testament to the durability of composites.

Composite underground storage tanks, FRP piping and pollution control equipment have shown long term performance (30 years plus in some cases) where metals have routinely failed. FRP composite sewer piping has been lab tested at 150 years service life.



Composite rebar for concrete reinforcement has demonstrated many times the service life of steel rebar in bridge and reinforced concrete in coastal areas. Composite bridge decking life span is stated as 50-100 years.

The longevity of many composite building materials is well documented. FRP composite electrical receptacles, entry doors, window lineals, tub & shower units and countertops are all capable of lasting the lifetime of the residence.



The composites industry continues to develop products that leverage the material's durability, design flexibility, and high strength to weight ratio to provide long lasting engineered solutions.

Find out more about these versatile building materials at CompositeBuild.com.