

Superdeck™-- All Composite Pultruded Bridge Deck

The Superdeck™ All Composite Bridge Deck has been designed for use in the repair or replacement of deteriorated concrete bridge decks. It is a FRP composite deck whose cross-section shape and fiber architecture were designed and engineered as a minimum weight structural element with E-glass reinforcement. The pultruded deck components are assembled into modules to give a deck that weighs approximately 22 pounds per square foot. To ensure quality, the deck components are bonded with a two-part polyurethane adhesive that is applied under controlled conditions at the fabrication plant. A deck module can have a width up to 8 feet and a length that corresponds to the bridge width. Because modules are placed transversely to the traffic direction, they can be supported by longitudinal steel or FRP beams. The depth of the deck is designed at 8 inches to match the average thickness of concrete decks for highway bridges, and to allow Superdeck™ to be efficiently utilized for concrete deck replacement. Superdeck™ provides six to seven times the load capacity of a reinforced concrete deck with only 20% of the weight. Other significant benefits of include: rapid field assembly, enhanced safety, low maintenance, reduced equipment and labor, and reduced installation costs. There have been three installations of Superdeck™ to date and another ten are scheduled for completion through 1999. Creative Pultrusions, Inc., Alum Bank, Pennsylvania, is the manufacturer of Superdeck.™

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