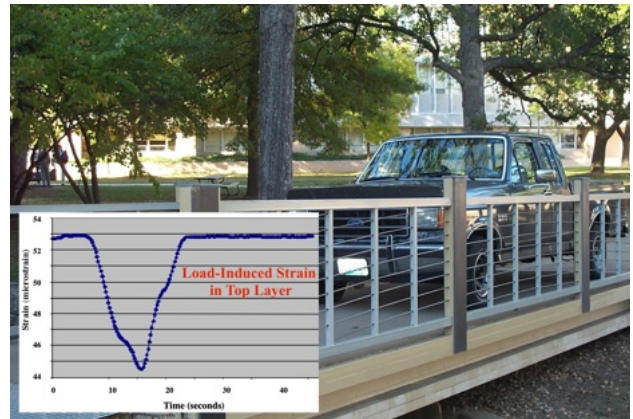


Smart Composite Bridge (SCB) Photo Gallery

The SCB, installed in 2000, is a pedestrian bridge on the Missouri S&T campus (37°57'20" N 91°46'23").



Load tests show that the SCB exceeds an AASHTO H20 highway rating.



Embedded fiber optic sensors detect small load-induced deflections.



Fiber-optic strain sensors in the SCB were embedded during the off-site manufacture.



The lightweight design of the SCB enabled flexible transportation and installation.



The design was simulated and its performance confirmed through failure testing.



The SCB was constructed off-site with a modular design using layers of square composite tubes.

Smart Composite Bridge (SCB) Photo Gallery



Instrumentation for the SCB.



The SCB as a field laboratory for students.



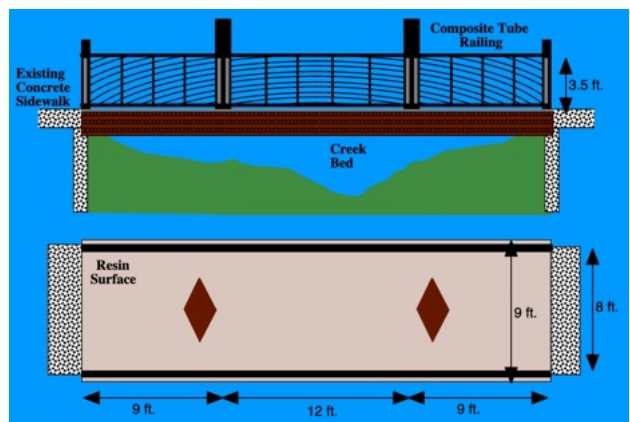
The SCB was built off-site and transported to campus.



FRP composite tube design of the SCB.



SCB dedication on October 7, 2000.



SCB Dimensions.