PROJECT LOCATION: Eglin AFB, Florida

PROJECT SCOPE
The Presto Geosystems Geoweb® Load Support System provided a low-maintenance, permeable load-support roadway through the air force base grounds. The gravel-filled roadway, measuring 30 ft. wide and 4,000 ft. long, replaced a dirt road that had experienced significant sediment loss into a nearby creek from washout. The environmental impact of the increased sediment load endangered the protected fish species, the “Okaloosa Darter”.

DESIGN CRITERIA
• Provide a permeable, stabilized surface to support base traffic loadings.
• Control surface rutting and storm water runoff.
• Comply with ecosystem management goals of their land management/natural resources.

GEOWEB® SYSTEM ENVIRONMENTAL BENEFITS
With aggregate infill, the Geoweb system:
• Reduces storm water runoff, promoting groundwater replenishment.
• Functions as a natural storm water retention system, allowing water to fill the aggregate voids and permeate naturally into the existing ground.
• Reduces the heat-island effect.

Other Benefits:
• Cell wall perforations facilitate lateral cell-to-cell drainage beneath traffic areas, resulting in better performance over saturated soils.
• Stability of the permeable pavement surface translates to a reduction in maintenance costs.

GEOWEB® LOAD SUPPORT SYSTEM STRUCTURAL BENEFITS
• Confines aggregates, preventing shear failure and both lateral and vertical movement of the infill material.
• Creates a stiff load distribution system, effectively reducing subgrade contact pressures and vertical deflections.
• Controls differential and total settlement over low-strength subgrades.
• Thickness and weight of confined vs. unconfined structural support systems may be reduced by 50 percent or more.

FOR MORE INFORMATION: Presto Geosystems Ph: 800-548-3424; 920-738-1707 www.prestogeo.com