Innovative FRP Solutions for Waterfront Infrastructure



LARGE DIAMETER PILINGS • CAMELS • PIER PROTECTION • GUIDEWALLS • LOCK GATES









Composite Advantage's engineered FRP products & systems protect vessels, structures and budgets in the aggressive marine environment by offering:

- Superior Energy Absorption
- Long Life, Maintenance Free
- High Strength, Light Weight
- Low Environmental Impact
- Project Cost Savings
- Fast Installation

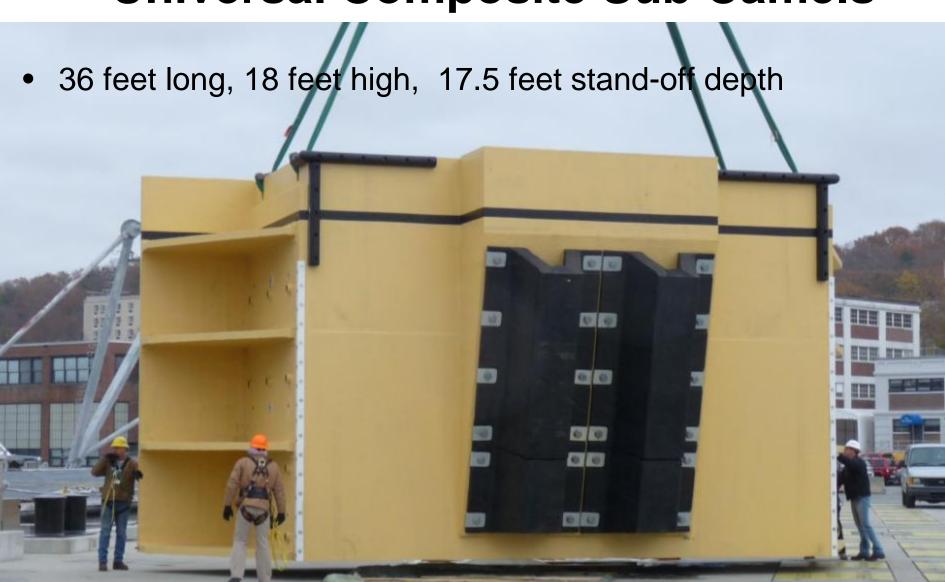


Fiber Reinforced Polymer (FRP) Composite Benefits

- Corrosion Resistance to chemicals and water
 - Low to No Maintenance
- Light Weight
 - Only 20% of reinforced concrete panels
 - Simpler installation
 - Reduced cost of superstructure and substructure
- Prefabricated Structures
 - Accelerated construction
 - Incorporate features in shop fabrication
 - Lower cost; higher quality
- Design Flexibility: Energy absorption, High strength



Universal Composite Sub Camels



• Structure weighs 70,000 lb. Internal ballast weighs 35,000 lb



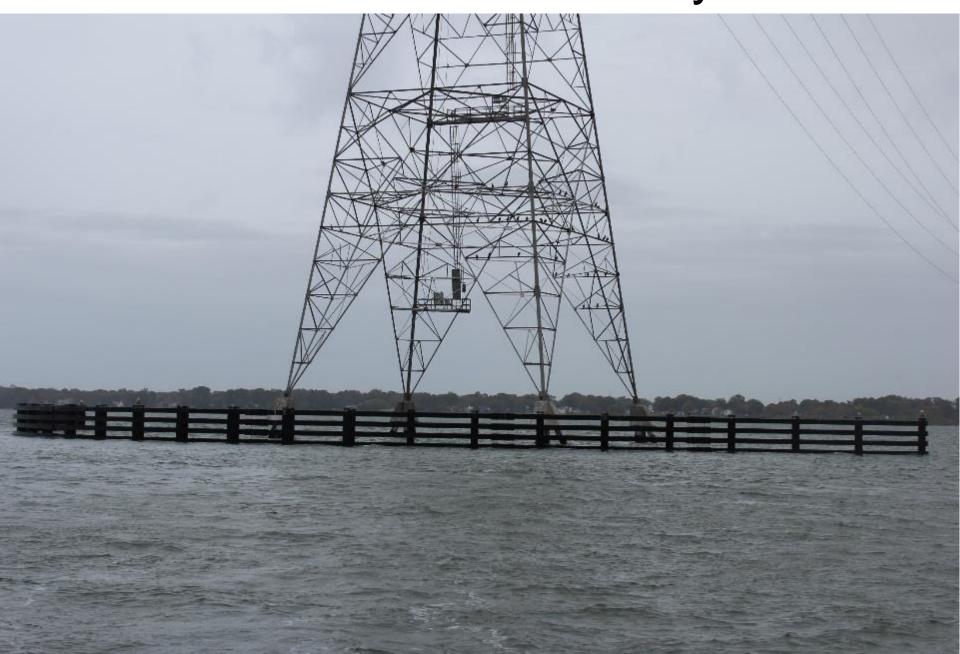
Moored to Pier and Ready for a Sub







FRP Pier Protection Systems





- Large diameter pilings
- High energy absorption
- Recoverable deflection
- High strength; low stiffness

Lowest cost solution – Initial & Long Term

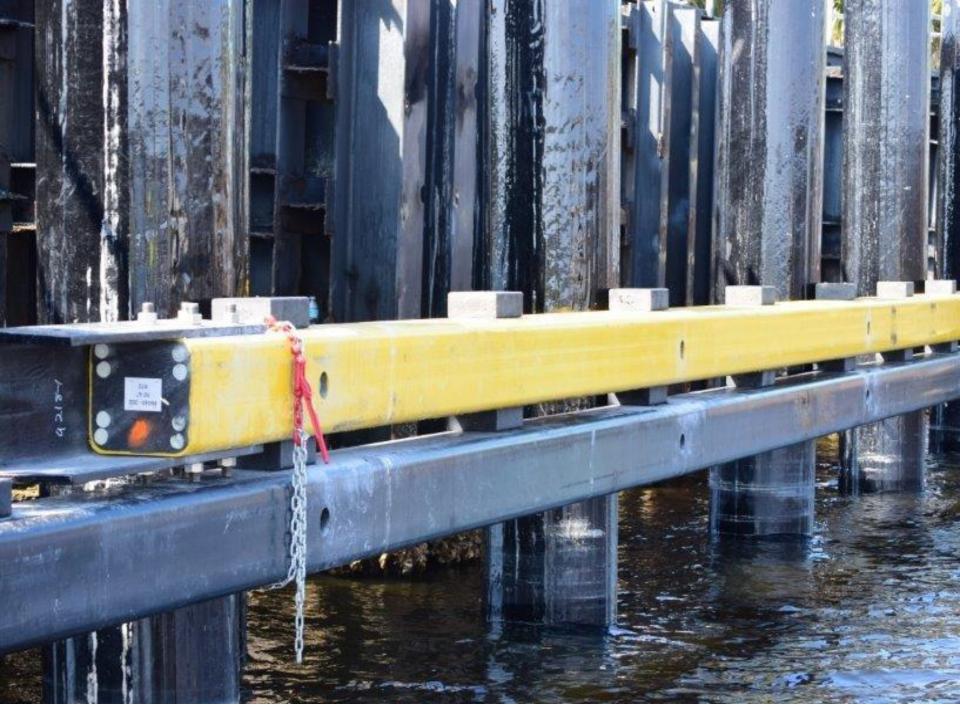










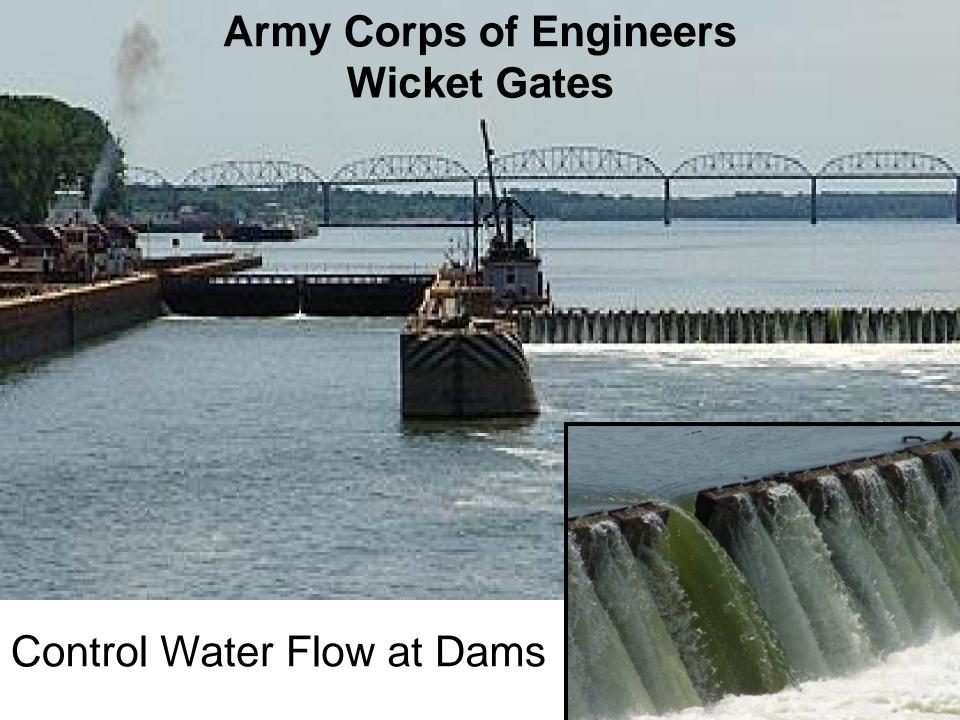














FRP Composite Wicket Gates

Current Wood Gates







Acquisition Cost Savings and Longer Life





Lightweight Trench Covers

- Replace concrete covers on frequently accessed trenches
- Load capability is 40,000 lb with 15% impact factor
- Cover weight is less than 200 lb
- Embedded steel for attaching eyebolts
- Non-slip surface







CA Products and Value

- Solutions for applications requiring:
 - Corrosion resistance and long life
 - Large parts
 - Structurally demanding requirements
 - Light weight
- Innovative Designs

Contact:

Scott Reeve, 937-723-9031, sreeve@compositeadvantage.com Steve Shannon, 717-459-3471, sshannon@coastlinecomposites.com www.compositeadvantage.com