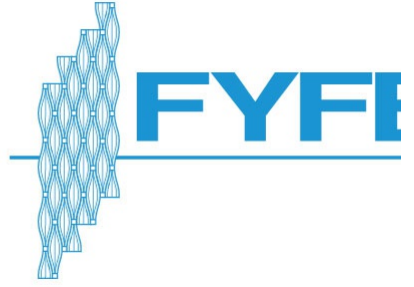




# AEGION®

## Stronger. Safer. Infrastructure.®



### Column Strengthening

The Fibrwrap® system can be used to increase the structural performance of both reinforced concrete, wood and steel encased columns. Potential structural uses include the following:

- Shear strengthening
- Displacement-ductility enhancement
- Single-bending, double-bending, flexural/moment increase\*
- Axial load (circular, rectangular\*) enhancement
- Torsion strengthening
- Correction of an existing construction and/or design error\*

The majority of the structural elements completed have been reinforced concrete and prestressed/post-tensioned concrete. However, steel encased members, steel members and wood components (piles and timber elements) can all be enhanced to some degree.

Given the basic project parameters (specifically the detailed performance goal and the existing capacity of the structural element), Fyfe Company engineers will provide a preliminary composite design and cost estimate, at no obligation.

\* These applications involve more complex and/or limited designs. Special detailing and project coordination will typically be involved.