



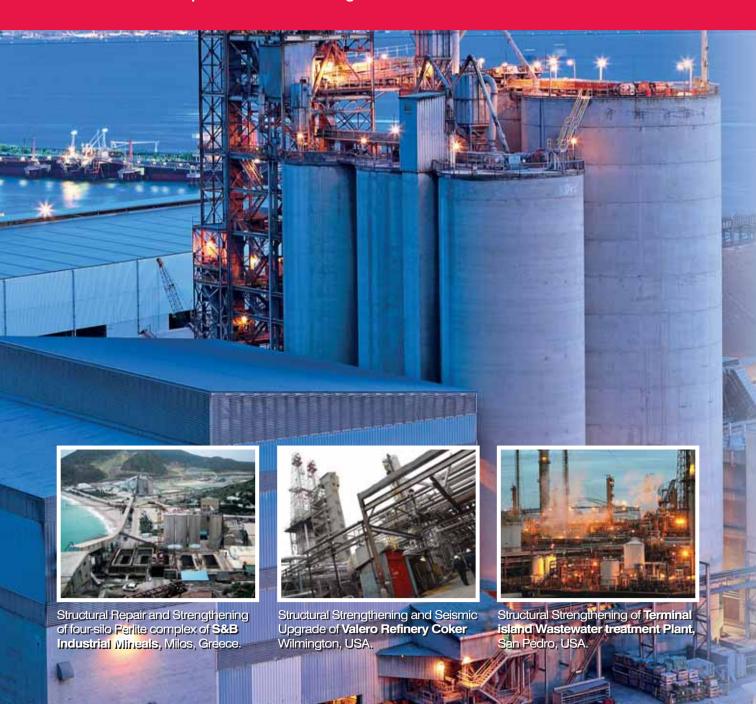


Protection of human life and assets is the first priority in any manufacturing environment. This is our priority and promise as well.

Industrial structures present many unique problems compounded by their challenging environments and they need fast, durable resolution to problems that otherwise might lead to unsafe working conditions and eventually lead to a shutdown with high cost.

Strengthening applications typically include structural repair and upgrade, seismic retrofit, corrosion mitigation, change-of-use, protection from aggressive environments, design/construction error remediation and blast hardening.

Industrial facilities present many challenges including chemicals attacks, temperature, and impact forces, and in certain cases, regulatory compliance requirements. In certain facilities the threat of spontaneous blast events poses additional challenges.



FIBRWRAP CONSTRUCTION EUROPE Ltd.

Industrial & Energy Producing Facilities







Structural Strengthening Perilite silo of S&B Industrial Mineals, Milos, Greece



Structural Strengthening & Sindustrial building Micron, I

Fibrwrap focuses in the realization of structural rehabilitation, strengthening and renovation projects applying Tyfo Fibrwrap advanced technologies. Fibrwrap's personnel engage in both the design and construction phases in order to propose and implement the most suitable rehabilitation solution, tailored to the needs of a project.

Fibrwrap offers a number of benefits to the industrial facility owners; through its advanced technology Fibrwrap guarantees the unmatched prolongation of the expected life-cycle of existing structures, the undisturbed productivity during repair, the reduced maintenance cost due to the sustainable quality of the technical solution and the positive and long-lasting effect that Fibrwrap's work has on the environment – helping its clients to reduce their own carbon footprint.

TFS® Solutions:

- Rehabilitation of corroded or distressed members
- Strengthening of overstressed support structures
- Damage/Leak remediation and prevention
- Protection from corrosion and rectification
- Protection from aggressive environments
- Fire protection, impact force protection and blast hardening
- Seismic retrofit of structural components and seismic upgrade
- Emergency repairs





TFS® Applications:

- Used extensively to retrofit reinforced concrete support structures such as pipe racks, equipment structures, pedestals, Coker units, industrial chimneys, silos, tanks, pressure vessels, pipelines and much more.
- The TFS® products have excellent durability and chemical resistance properties and have been specially formulated to deliver long-lasting protection.
- Repair and strengthening buildings and structural members to guard against structural failure in the case of an overpressure event. Control rooms, and all structures which house employees in hazardous areas are prime candidates.

The Tyfo® FIBRWRAP® System (TFS®) has been applied in various industrial facilities around the world. They have proven to be a long term solution completely satisfying the specific needs of each project.



eismic Upgrade of Prato, Italy



Structural Strengthening of new plant of High voltage Unit of **DEI**, Evia, Greece



Pre-stressed Concrete Pipe Repair of **PPL Montana**, USA

TFS® Features:

- Thoroughly tested at independent laboratories
- Extension of the service life of existing structures
- Significantly lowers the corrosion rate when confining existing members
- Can prevent the onset of corrosion when applied to new structural elements
- Can be used on circular, square, rectangular, hexagonal, flared and odd-shaped cross sections with negligible shape and size modifications
- Cost -effective
- Low impact to facility function
- Fast and safe application process











Advantages - Benefits:

- Value-engineered approach to identify the cause and the nature of the problem
- Prolongation of the expected lifecycle of existing structures
- Minimum disturbance of facility operation during repair
- Reduced maintenance costs due to excellent long-term material behavior
- "Green" facility upgrade with a minimum environmental footprint
- Resistant and protection of structural members in aggressive environment.





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FIBRWRAP CONSTRUCTION EUROPE



An ever-expanding network beyond Europe

Working with FIBRWRAP Construction Europe Ltd. is equivalent to entering the largest family of companies worldwide, dealing with any kind of structural rehabilitation need. With offices across the globe, Fibrwrap is an international business with a local twist strengthening and protecting people, properties and assets everywhere.



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