



CANADIAN PRECASTER PROFITS WITH EUCLID'S TUF-STRAND SF™

Challenge

- Ensure a tough concrete for long lasting service of precast concrete elements
- Provide a cost efficient alternative to conventional steel reinforcement
- Use the most up-to-date technologies to produce water tight septic tanks

Engineered Solution

A leading Canadian concrete pre-caster is using TUF-STRAND SF™ successfully to replace welded wire mesh and steel fiber reinforcement in septic tanks and other pre-cast elements including park benches, well corks, curbs and median barriers. The manufacturer produces tanks in sizes ranging from 600 to 3900 gallons. TUF-STRAND SF is a patented synthetic structural fiber with a unique self-fibrillating polypropylene/polyethylene blend. Testing performed throughout the manufacturer's implementation has proven TUF-STRAND SF is a cost efficient, high quality alternative to conventional steel reinforcement. Vacuum, water tightness and load testing were performed at the start of the program. The fiber reinforced tanks have passed all criteria, and are now in successful service. TUF-STRAND SF fibers are designed to provide concrete with increased flexural toughness, impact and fatigue resistance and the added benefit of superior plastic shrinkage cracking control versus welded wire mesh and steel fibers. With fiber volumes up to 8 lbs/yd³ and the elimination of welded wire mesh fabrication, material and labor requirements are reduced. As a replacement alternative, TUF-STRAND SF delivers an overall cost reduction as a direct result of decreased production cycle times while improving the physical properties of concrete. As this company discovered, the tough, durable, crack free surface produced with EUCLID TUF-STRAND SF fibers provides superior structural performance while maximizing their per unit production.



TUF-STRAND SF reinforced septic tanks surpass vacuum testing standards



Successful water tightness testing proves that TUF-STRAND SF is the cost effective reinforcement solution



Septic Tanks produced with TUF-STRAND SF fiber reinforced concrete passed critical load testing

Features

- Eliminates welded wire mesh/steel fibers
- Patented EUCLID TUF-STRAND SF™

Benefits

- Cost efficient construction process
- Superior performance characteristics
- Reduce or eliminate plastic shrinkage cracking

Applications

- All precast concrete construction projects requiring welded wire mesh or steel fibers

TUF-STRAND SF—CANADIAN PRECASTER

