**Rock Bolts, Soil Nails, Tiebacks**

Engineered solution to meet your specific needs

**PRODUCTS**
- Rock Bolts
  - Left Hand Thread
  - Right Hand Thread
  - Square Head For Spinning
  - Any Length
- Soil Nails - Any Length
- Tiebacks - Any Length
- Composite Nuts
- Couplings and Other Fasteners

**APPLICATIONS**
- Hard Rock Mining
- Ground Stabilization
- Salt Mines
- Tunneling
- Tiebacks
- Temporary Ground Support (Easy To Excavate)
- Permanent Ground Support (Excellent Corrosion Resistance)
- Specialty Applications
  - Custom Threaded Intervals
  - Custom Fasteners and Accessories
  - 3,000 Feet Continuous Coils

**FEATURES**
- Thread available on any part of any bar
- 100 plus years corrosion resistance
- Extremely high embedment strengths
- ¼ the weight of steel
- 2 times the strength of steel
- Easy to post tension
- Non-magnetic
- Low electric conductivity

ISO 9001 • ISO 14001 • OHSAS 18001
**THREAD BAR**

Nominal Diameter: 22 mm  
Cross-Sectional Area: 337 mm$^2$  
Ultimate Tensile Stress: 799 MPa  
Ultimate Tensile Strength: 269.3 kN  
Transverse Shear Stress: 181 MPa  
Transverse Shear Strength: 61 kN  
Bond Stress: 14.0 MPa  
Ultimate Elongation: 1.95%  
Nominal Weight: 0.63 kg/m  

**4” CAP NUT**

Strength: 120 kN  
Torque Limit: 40 ft/lbs

**4” FLAT NUT**

Strength: 120 kN  

**2” NUT**

Strength: 55 kN  

- Independent testing performed by University of Sherbrooke in accordance with SIMTReC Product Certification of FRP Materials guidelines  
- Independent testing performed by Intertek Testing Services NA Ltd. according to ACI 440.3R-04 and ASTM D 3916-02  
- Other sizes and configurations are available upon request

“Steel reinforcement damages our boring machines, and is difficult to remove. It costs us a lot in time and money to excavate.”

“Have you ever had to haul steel around all day? You get tired, you get hurt. This stuff is great. No more back pain.”

“Even in the most challenging of applications this product is flexible and safe enough to easily adapt to the environment.”

What makes our composite reinforcement so unique?

- Easy to cut, easy on equipment
- 100 plus years corrosion resistance
- Flexible bar for easy installation
- Light weight, reduces injuries
- High torsional strength prevents failures during installations
- Easy to use cap nut and bar system
- Designed for both temporary and permanent applications
- Complies with infrastructure and mining test requirements