

SeaShield™ Marine Systems



The SeaShield™ Series 400 System has been independently tested by Texas A&M University, Department of Civil Engineering, Structural and Materials Testing Laboratory.



Series 400

Structural repair system that doubles the strength of the original timber pile

SeaShield™ Series 400 System is comprised of the SeaShield™ Fiber-Form Jacket, C-GRID® 450 and SeaShield™ 510 UW Grout or SeaShield™ 550 Epoxy Grout. The Series 400 is a revolutionary encapsulation system that not only protects timber piles from aggressive saltwater environments and marine borers, but also strengthens deteriorated piles with a durable, lightweight and non-corrosive reinforcement.

Features

- Provides double the strength of the original timber pile
- Non-corrosive reinforcement
- Reduced weight when compared to steel reinforcement
- Requires inexpensive pumping equipment
- Flowable non-shrink grout
- Manufactured to be translucent with clear gel coat
- High impact resistance
- UV resistant
- Long maintenance-free service life





The lightweight and non-corrosive C-GRID® 450 is installed around the pile.



The SeaShield™ Fiber-Form jacket is then snapped in place around the C-GRID® 450.



Grout can be pumped as soon as the SeaShield™ Fiber-Form jacket is secured in place.

SeaShield™ Series 400 System

The SeaShield™ Series 400 System is comprised of a SeaShield™ Fiber-Form Jacket, C-GRID® 450, and either SeaShield™ 510 UW Grout or SeaShield™ 550 Epoxy Grout. The complete system doubles the strength of the original timber pile.

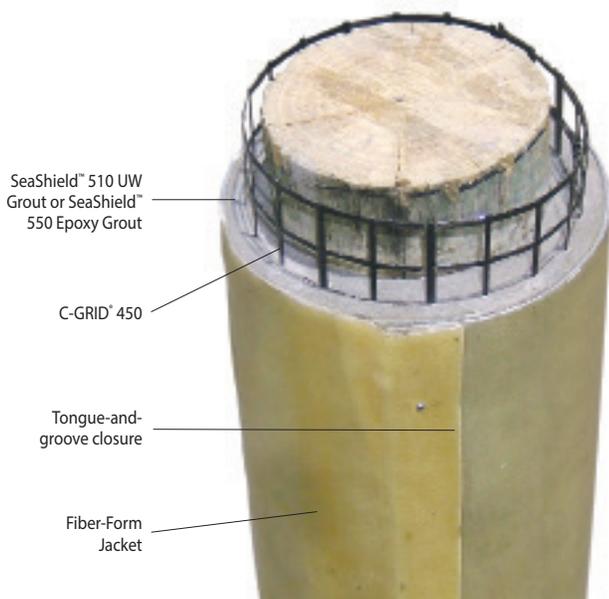
The C-GRID® 450 should be unrolled and cut using tin snips or other suitable method. The cut width of C-GRID® 450 is determined by including enough material to be imbedded within the grout and a 6" (152 mm) overlap along vertical seam. Locate the C-GRID® 450 between the elevations indicated in the specification and drawings. Then, the SeaShield™ Fiber-Form Jacket is installed around the pile and C-GRID® 450. A foam seal should be installed at the bottom of each jacket to prevent any grout from leaching out of the bottom of the jacket during

installation. Once jacket is in place, inject grout approximately 6" (152 mm) to 12" (305 mm) into the bottom port and allow it to cure before proceeding with subsequent lifts. The injection process should be continuous, except when the injection hose is moved from port to port.

For further information please refer to the technical data sheets for the SeaShield™ Fiber-Form Jacket, C-GRID® 450 and SeaShield™ 510 UW Grout or SeaShield™ 550 Epoxy Grout. Complete details can be found on the SeaShield™ Series 400 Engineering Specifications.

C-GRID® 450 utilised by Denso (Australia) Pty Ltd in the SeaShield™ Series 400 System is protected under the following US and European Patents: 6,263,629; 5836,715; 6,123,879; 6,454,889; 6,632,309; 0861353 ;1094171.

C-GRID® is registered trademark of Chomarat North America, LLC.



SeaShield™ 510 UW Grout or SeaShield™ 550 Epoxy Grout

C-GRID® 450

Tongue-and-groove closure

Fiber-Form Jacket



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