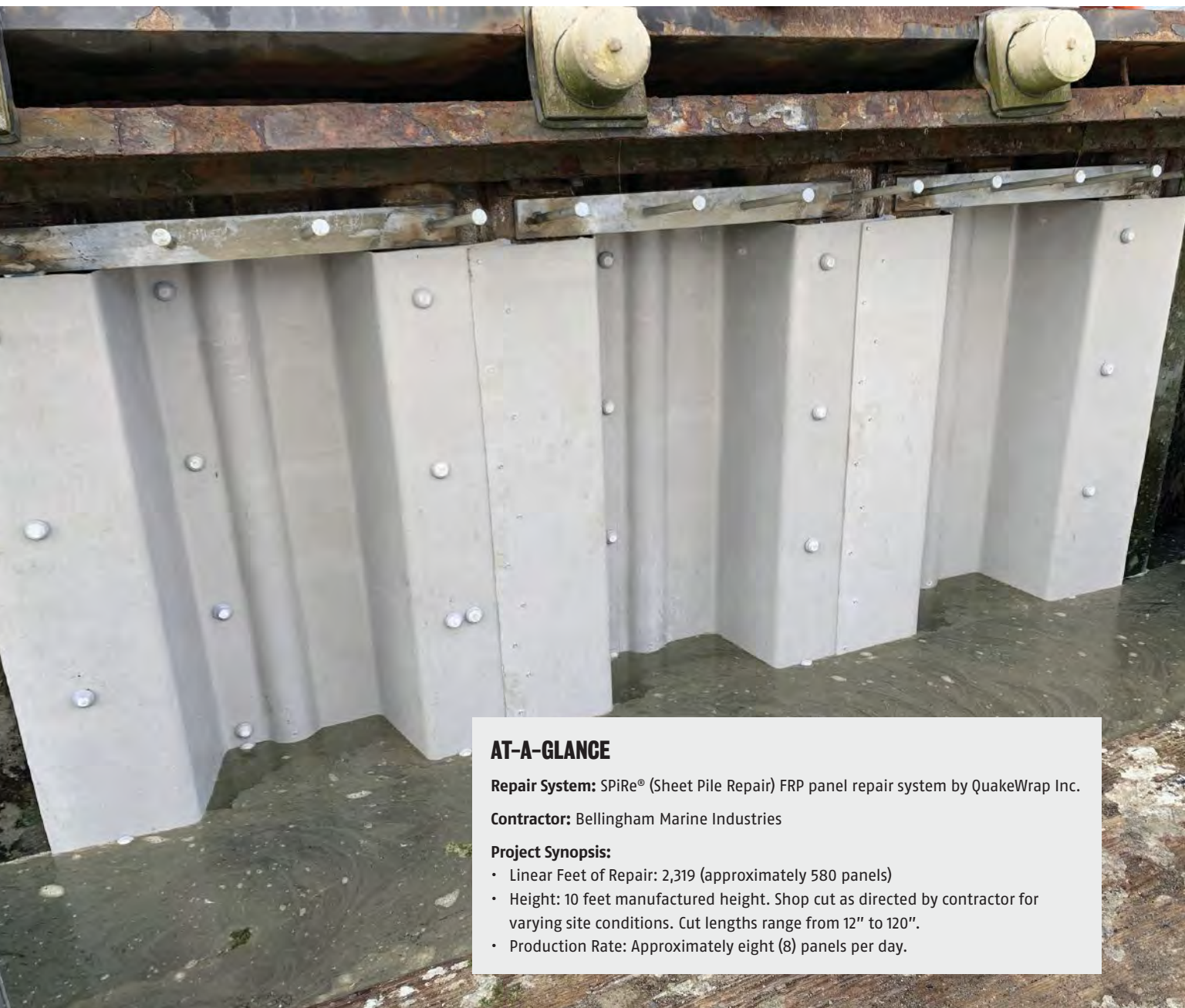


DRY MOCKUP VERIFIES FIT, APPEARANCE FOR MARINA SEAWALL REPAIR



AT-A-GLANCE

Repair System: SPiRe® (Sheet Pile Repair) FRP panel repair system by QuakeWrap Inc.

Contractor: Bellingham Marine Industries

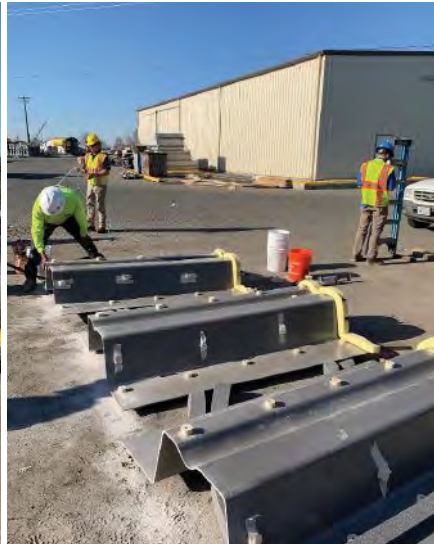
Project Synopsis:

- Linear Feet of Repair: 2,319 (approximately 580 panels)
- Height: 10 feet manufactured height. Shop cut as directed by contractor for varying site conditions. Cut lengths range from 12" to 120".
- Production Rate: Approximately eight (8) panels per day.

JOB STORY



Bair Mock 1: Sheet pile wall matching site conditions. Photo courtesy QuakeWrap Inc.



Bair Mock 2: SPIRe® panels getting prepared for installation. Photo courtesy QuakeWrap Inc.



Bair Mock 3: Fit up of first panel. Photo courtesy QuakeWrap Inc.



Bair Mock 5: Fit up of third and final panel for mockup. Photo courtesy QuakeWrap Inc.



Bair Mock 6: Installed three panel mockup. Photo courtesy QuakeWrap Inc.



Bair Install: Final installation. Photo courtesy QuakeWrap Inc.

OVERVIEW

The SPIRe® FRP panel system by QuakeWrap Inc. was selected for this repair project as a long-term protection solution to prevent further corrosion of the existing steel sheet pile seawall. This patent-protected, FRP panel system was compared to traditional coating systems and other panel systems and was selected based upon overall project price, ease of installation, support from QuakeWrap's engineering department including a professional engineered sealed design and QuakeWrap's ability for customization for the client's requirements.

The repair system included the following components:

- Engineered calculations, drawings and specifications.
- Installation, operations and maintenance manuals.
- Custom length SPIRe® panels coordinated with the

contractor with preinstalled spacer assembly for accurate placement of attachments.

- Custom corner SPIRe panels and closure panels.
- All connectors consisting of stainless steel self-tapping screws and washers, loose spacers for field installation.

This project has an extensive owner and contractor approval system to verify fit up, constructability and appearance. The four-phase process includes:

- Review and approval of shop drawings, calculations and product samples.
- Dry mockup going through the entire installation process to work out any performance issues.
- Wet mockup at the site to test constructability, handling, and process, as well as finished appearance. ■