

**DESIGN MANUAL:** FERRY TERMINALS AND SMALL CRAFT BERTHING FACILITIES

# PILE BUCK

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## PILE BUCK'S PILE GUIDE: PART II SHEET PILES

**PLUS**

**SAFETY-BASED THINKING**  
Built into the Project Schedule

**HYDRAULIC SLURRY WALL GRAB**  
in Milan Metro Expansion

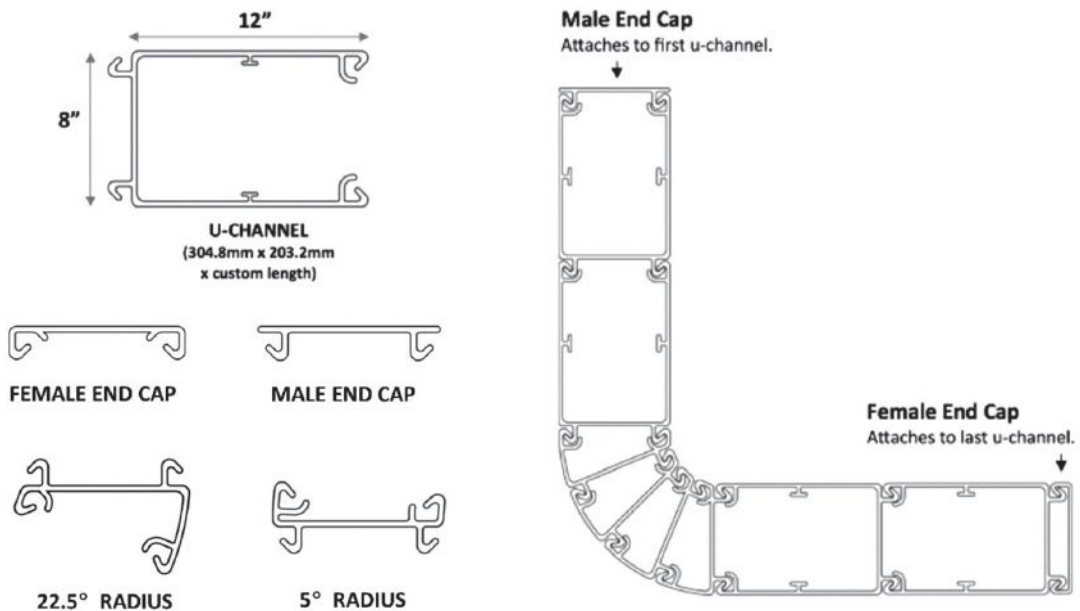
**MEEVER USA BRACING**  
To Better Stabilize Sheet Pile Installation





TRULINE® wall system being installed to help control erosion and save homes on the beach in Northeast Florida. Photo credit: TRULINE.

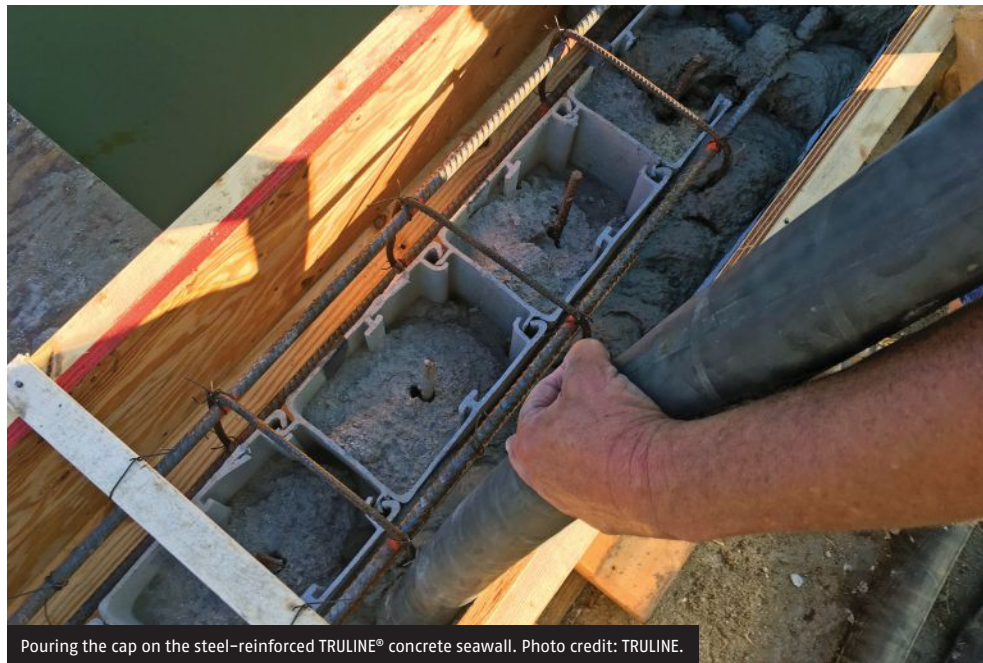




## HYBRID SYSTEM: CONCRETE AND VINYL PILING

### GENERAL INFORMATION

- The latest technology for sea walls is a hybrid system that combines the benefits of a strong steel-reinforced concrete wall with the benefits and protection of vinyl sheet piling.
- The individual vinyl sheet piling pieces are dual-interlocking, u-shaped and 12" (304.8 mm) wide by 8" (203.2 mm) deep and extruded to custom lengths. The system of modular parts provides continuous integrity throughout turns and radiuses. In addition, return walls can be installed from anywhere on the wall surface.
- When the vinyl sheet piling u-channels are joined together, they create a hollow cell in the middle in which to pour-in-place, steel-reinforced concrete.
- The u-channel design provides a flat, appealing surface similar to concrete and makes forming the cap easier.
- One of the benefits of the hybrid system is that the steel and concrete are encased inside the vinyl which protects it from salt water corrosion to provide a longer-lasting wall.



Pouring the cap on the steel-reinforced TRULINE® concrete seawall. Photo credit: TRULINE.

- Depending on the wall strength requirements, engineers can design with various strengths of steel and concrete.
- Vinyl sheet piling can be carried by hand and installed with light-duty equipment, allowing installation of strong and tall walls in even tight project areas. This system makes it easier to design and install walls with taller exposures.
- Unique to this hybrid u-channel design is being able to pin-pile in rocky soil conditions.
- Same standard installation procedures and equipment for vinyl sheet piling apply and can be installed in front of old concrete walls or a new wall can be installed. ■

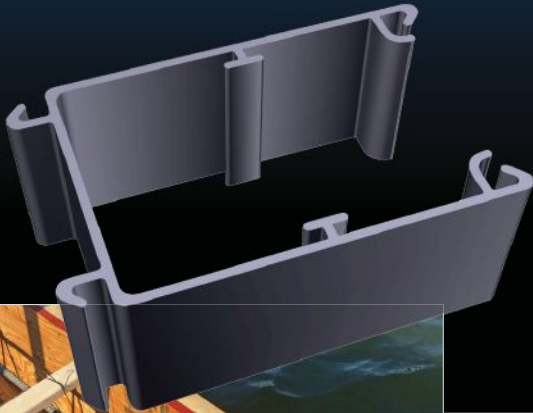


# TRULINE®

The Innovative Hybrid Sheet Piling System®

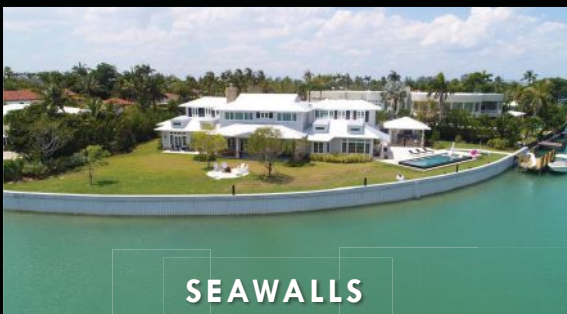
## THE ULTIMATE WALL

POUR-IN-PLACE, STEEL-REINFORCED **CONCRETE WALL** WITH VINYL PROTECTION

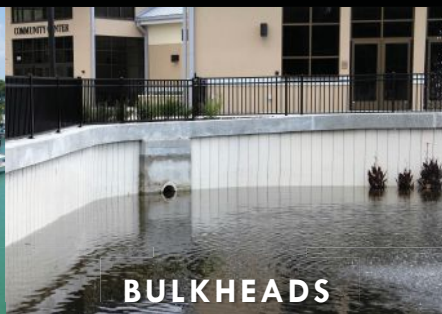


- Hybrid system combining the benefits of steel-reinforced concrete with the benefits of vinyl sheet piling, while providing longer service life
- Install in front of old concrete seawall or build a new wall
- Flat surface makes it easier to form a cap
- Pin-pile in rocky soil conditions
- Build taller exposed height walls 8" thick with standard equipment

VIEW INSTALLATION VIDEOS AT [TRULINE.US](http://TRULINE.US)



SEAWALLS



BULKHEADS



RETAINING WALLS

[www.truline.us](http://www.truline.us)