



XbocPus Breakwater, Shoreline & Coastal Protection System

Contech Engineered Solutions has partnered with Delta Marine Consultants to bring a revolutionary Hard Armor Solution system, the **XblocPlus**, to the United States. The **XblocPlus** system is well-suited for the protection of the United States' vast coastline, shorelines and breakwaters.

XblocPlus can handle waves up to 30 feet and slopes up to 1.33H:1V while using 40% less materials than traditional armor solutions. **XblocPlus** has undergone extenstive laboratory testing at the Deltares Delta Flume, the world's largest hydarulic testing facility.

XblocPlus has an efficient and unique installation system that saves valuable time and money.

Features and Design Advantages

- · Regularly placed, staggered grid block system
- Interlocking, single layer
- Up to 50% fewer units than traditional solutions
- Multiple sizes available from 2-53 ton units
- Ability to handle steep slopes up to 1.33H: 1V
- Twice the safety against design storm events
- Designed to be a maintenance free system
- Architectural finish

Applications

- Ports
 Coastlines
- Marinas
 Harbors
- Terminals
 Piers
- Coastal Airports
 Tidal Protection
- Shoreline Breakwater

Testing

- · Extensive testing conducted in the Deltares Delta Flume
- Testing on multiple wave heights, wave steepness and slopes
- 3-D model tests
- Ability to scale test project geometry and hydraulic conditions

Installation Advantages

- Regular placement
- Clear approval criteria
- · Reduced labor requirements
- · Minimizes installation time
- Accurate and safe



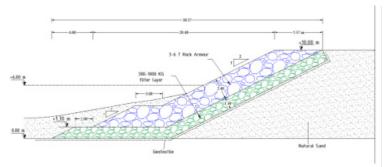






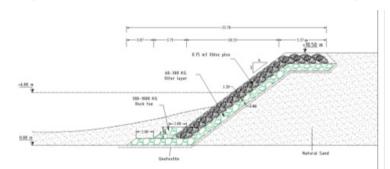


Afsluitdijk, The Netherlands - Aesthetic and functional coastal revetment system



Conventional Rock Revetment

- 60-ton/ft
- Shallow slope
- · Additional maintenance
- High CO₂ Impact



XblocPlus Revetment System

- 20-ton/ft
- Steeper slope
- · Maintenance free
- Lower CO₂ Impact

Online Project Design Worksheet

www.conteches.com/ArmortecPDW



Inputs for:

- Project Information
- Hydraulic Data Including Waves
- Material Requirements
- Comments
- Attach Electronic Files
- Contact Info

www.conteches.com/ArmortecPDW



ArmorFlex®











ArmorLoc® ArmorWedge

A-Jacks®

Xbloc[®] XblocPlus