Discs of Concrete Mounted on Fiberglass Piling

Stop Washer to Support Discs
Two Disc Unit After One Year and 4 Storm Events in the Gulf of Mexico 300 Feet From Shore
Oyster Shell Embedded
Florida Limestone Rock Embedded
Round EcoSystems Specifications

4 feet

Stop/Washer

Rock

10" Fiberglass Pile

Oyster Shell

Extra Spacers if Desired
**MATERIAL SPECIFICATIONS**

**Detailed description:** EcoSystems discs are manufactured using 4,000 lb. marine grade concrete with limestone rock. Each disc is reinforced with #4 fiberglass rebar for strength and non-corrosive endurance in salt water. Each disc has a 10” hole in the center for mounting on a piling. EcoSystems discs are slid over a 10” fiberglass Pearson Piling. Each Pile has a stop/washer is installed on the piling to position the unit at the desired height above the bottom. The weight of the discs/unit is supported on the stop/washer. After the piling is loaded with the desired number of discs, a special tool attached to a crane lifts the pile with discs attached. The tool jets or vibrates the pile w/disc units to the desired depth. This operation is conducted via remote control in less than 15 minutes without divers in up to 100’ of water using our installation device.

**Oyster Spat:** Ecosystems discs can be manufactured with small piece to be removed and soaked in Oyster Spat and reinstalled in the reef unit. They can be removed as often as necessary for study or soaking.

**Surface Area:** Each disc has approximately 41 square feet of surface area.

**Height:** Variable to any desired height above bottom and distance to surface.

**Volume:** Each reef contains 500 lbs of concrete and 100+ lbs of Limestone rock or Oyster shell.

**Weight per unit:** Each disc weights 600+ lbs.

**Total weight:** Varies according to number of discs.

**Microhabitat:** EcoSystems was developed as complex artificial reef. The use of Florida Limestone and the variable complex design make this reef the only manufactured artificial reef that can attract and sustain all the marine life found on a natural reef. The complexity can be varied by increasing/decreasing the size of spacers between the discs. The natural Limestone rock is the perfect PH for all marine life to attach, including boring animals.

**Stability/durability:** The discs have been installed in varying conditions from surf to 60’ in the Gulf of Mexico using both piling and pedestal mount. It has never failed structurally, moved, subsided or scoured during at least 4 storm events.

**Tendency to subside:** No subsiding has ever been observed. The piling mount will never subside or fail during storm events.
Shallow water installation
Up to 60 ft.
Actual Growth on EcoSystems Unit
Removable Sections for soaking in Oyster Spat