



Kind Designs

Living Seawalls

“Kind Designs is helping to combat climate change one 3D-printed seawall at a time.” - NBC

What makes Living Seawalls™ different?

Living Seawalls™ combine the structural integrity of traditional seawall panels with the ecological benefits of artificial reefs. Utilizing advanced 3D printing technology allows for greater design freedom and faster production compared to conventional construction methods.

Living Seawalls™ replicate the shapes, textures and wave-attenuating functions of natural mangrove root systems. This specialized design establishes ideal habitats optimized to support coastal biodiversity in South Florida, while protecting your property!



MATERIALS

Non-toxic & pH balanced
5,000 psi concrete



REINFORCEMENT

Rebar (steel or fiberglass)
Reinforcement can be customized to slabs specified in already permitted projects



INSTALLATION

Piles or tie-back
Done by **any marine contractor** - **NO** special equipment or “know-how” necessary



ENVIRONMENTAL BENEFITS

Dual function as an artificial reef
Non-toxic materials
Dissipate wave energy



DESIGN

All panels are made to order and can be delivered within 14 days of printing .



PERMITTING

Living Seawalls™ can be specified during the design phase or seamlessly plugged into any already-permitted concrete seawall project.

CONSTRUCTION PROCESS

1 Initiation Project Assessment

KIND will review permitted plans and customize slabs to meet specs.

2 Delivery & Installation Coordination

Set delivery date

Transportation

Pickup by barge at our Miami River warehouse
Truck delivery

Installation

Installed by marine contractor

3 Production Printing

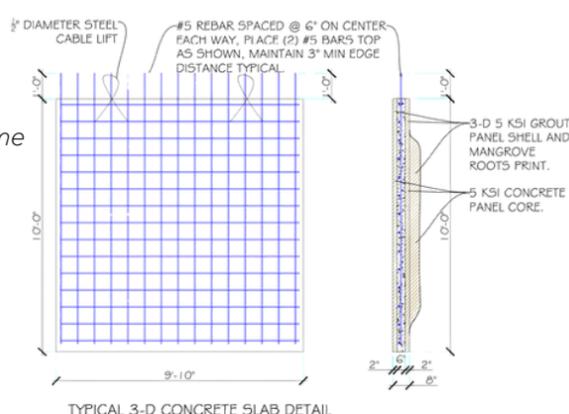
Print hollow mortar with horizontal rebar. *24hr cure time*

Rebar

Build vertical component of rebar cage

Filling

Fill hollow shell with concrete (*at warehouse or onsite*)



NOTES:
-CONCRETE CORE 5 KSI
-3-D PRINT GROUT 5 KSI
-REINFORCING: 60 KSI STEEL REBARS OR FIBERGLASS REINFORCING BAR (PINK BARS)

MEET THE TEAM



We're a Miami-based team of passionate ocean enthusiast - divers, surfers, environmental scientists & sailors - looking to disrupt the marine construction industry with affordable, environmentally-friendly technology.

Our brand-new state-of-the-art facility is on the Miami River.

COME VISIT!

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