

# BioRock™

## Project in Curacao



### **Global Coral Reef Alliance**

Dedicated to the growth and management of coral reefs around the world





# Introduction



Harald Weinrich  
Germany  
On Curacao since 1998  
Owner of Curacao-Divers



Michael Duss  
Switzerland  
On Curacao since 2012  
Employee at Curacao-Divers



Dr. Thomas Goreau  
America/Panama  
Inventor, President and  
Patent owner of BioRock



# Where and why???



## Location:

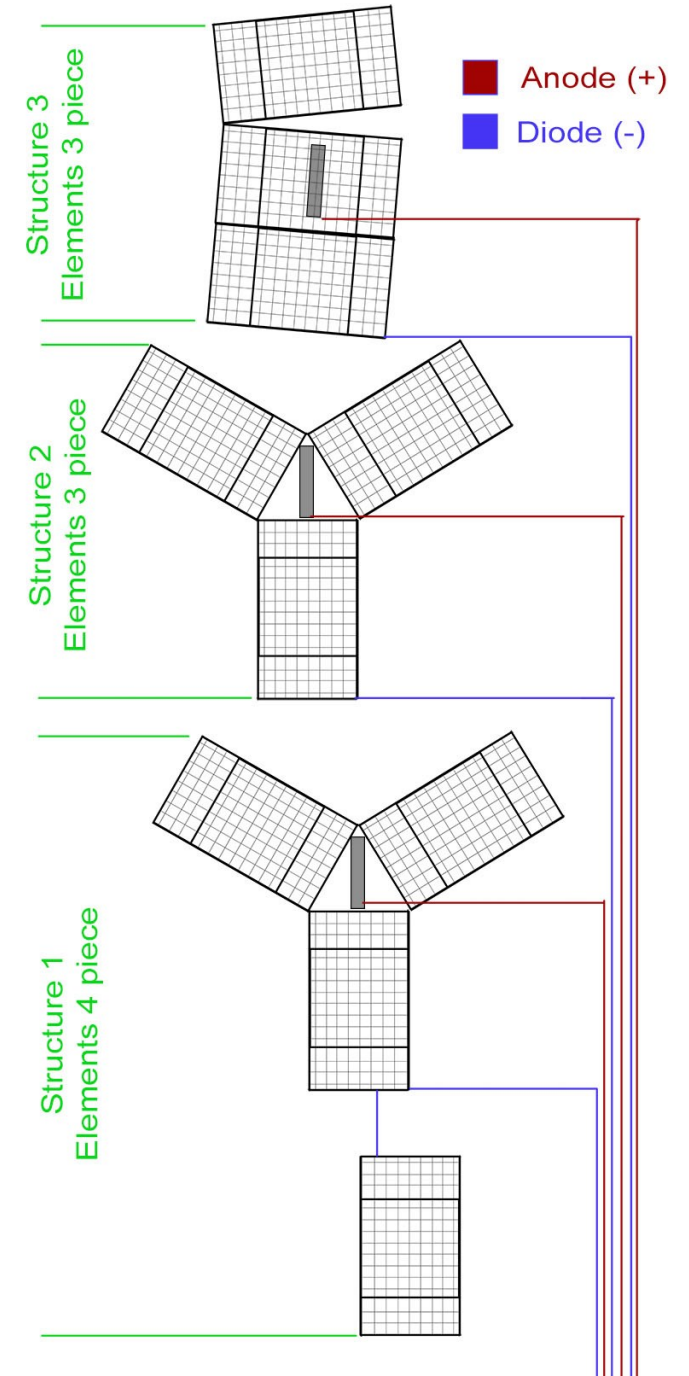
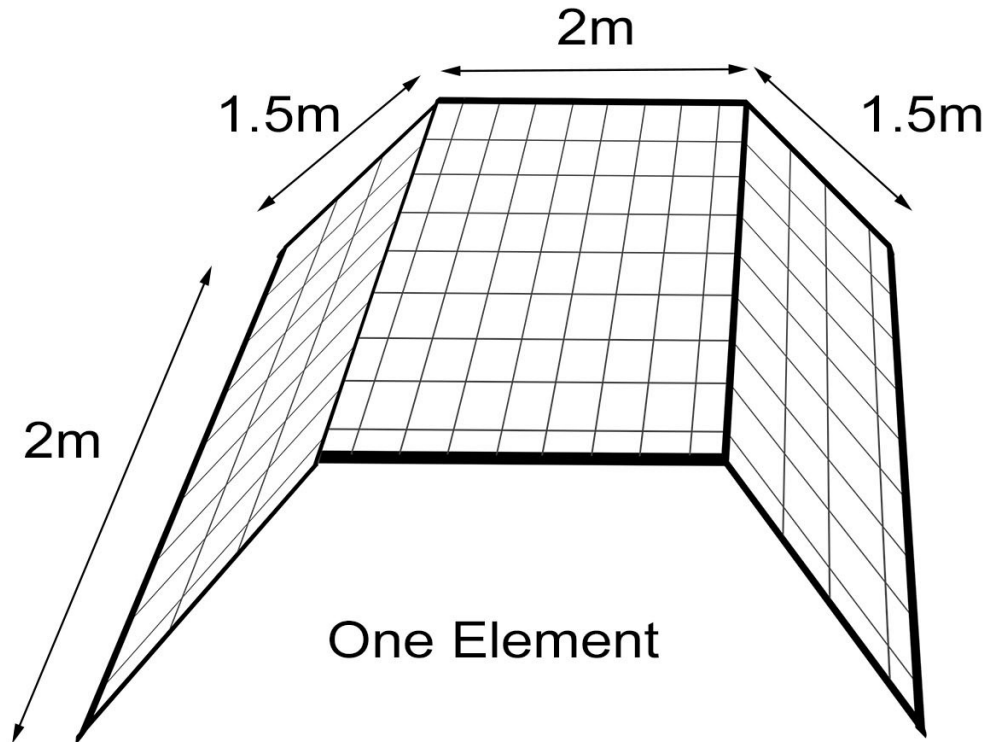
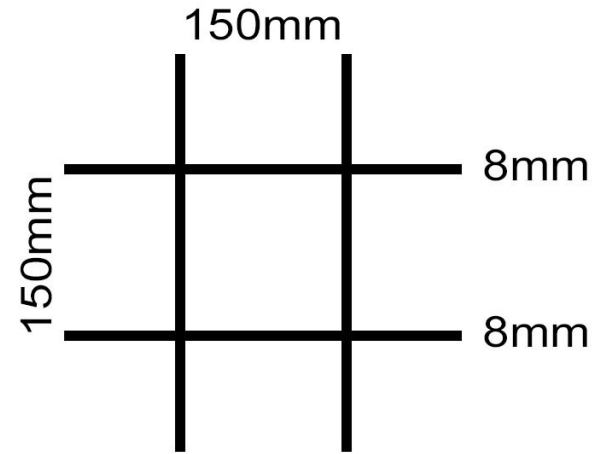
In front of  
SunReef Village on Sea  
Redaweg 30  
Sint Michiel

## Why:

Due to a previous Storm  
About 10 Years ago  
(for Example Lenny)  
the Reef got terribly damaged.  
Till now it did NOT recover.

# BioRock Material:

- 10x Stealmat 5m x 2m
- Anode about 8 m<sup>2</sup>
- Cabel for Anode ca. 100m
- Cabel for Diode ca. 100m
- PVC Tube 3x 2m
- Protection Tube ca. 5m





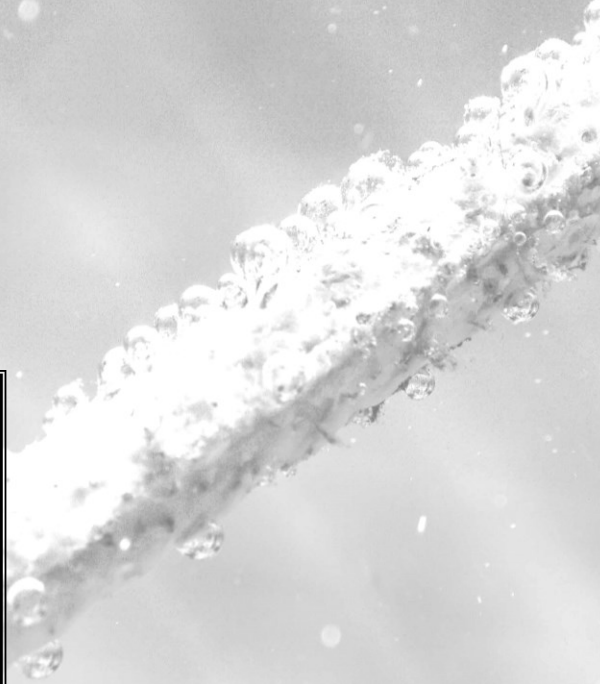
# What is BioRock™?

- The Biorock® method evolved from the original Mineral Accretion Process invented, developed and patented by: Dr. Professor Wolf Hilbertz
- Dr. Thomas J. Goreau (President) of Biorock initiates a process that literally creates an active eco-system existing in a state of constant flux.
- Powered by low voltage electrical currents the patented Biorock method will start an electrolysis and induces the formation of a hard limestone coating onto steel surfaces by precipitating natural minerals found in seawater.
- The dissolved minerals crystallize onto segments of Biorock structures, "growing" a hard shell similar to the material that forms reefs, coral skeletons, mollusks and makes tropical white sand beaches.
- Functions of “growth”, accumulation of mass over time and self-repair are exclusive properties belonging to the Biorock process alone; these unique features help make Biorock the best investment solution for a number of marine applications.



# Benefits of BioRock....

- The steel will never rust
- Damaged parts will “heal” them self
- Corals will grow faster, healthier and stronger on the Structures and in the surroundings than without BioRock
- Increase of fish schools which is beneficial for:
  - the U/W environment in general
  - local fisherman
  - Hotels
  - Divers
  - tourism
  - environmental study's





# Korallenveränderung nach 1 Jahr

