



Vector Corrosion Technologies

Cathodic Protection to Extend the Life of Your Structures

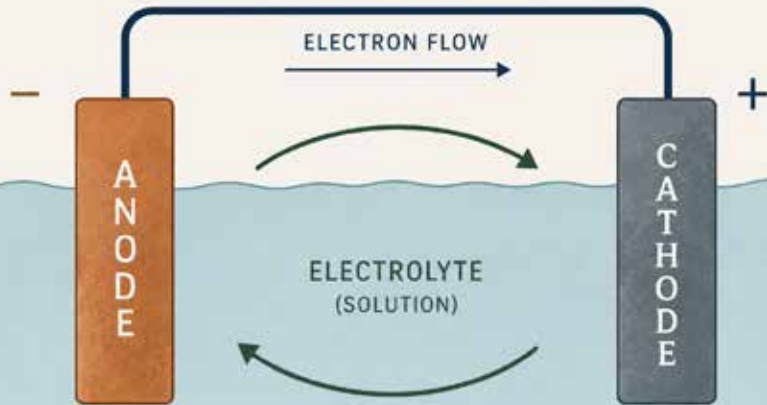
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Basic Corrosion Cell



Corrosion is an
Electrochemical
Reaction

ACME

Anode

Cathode

Metallic Path

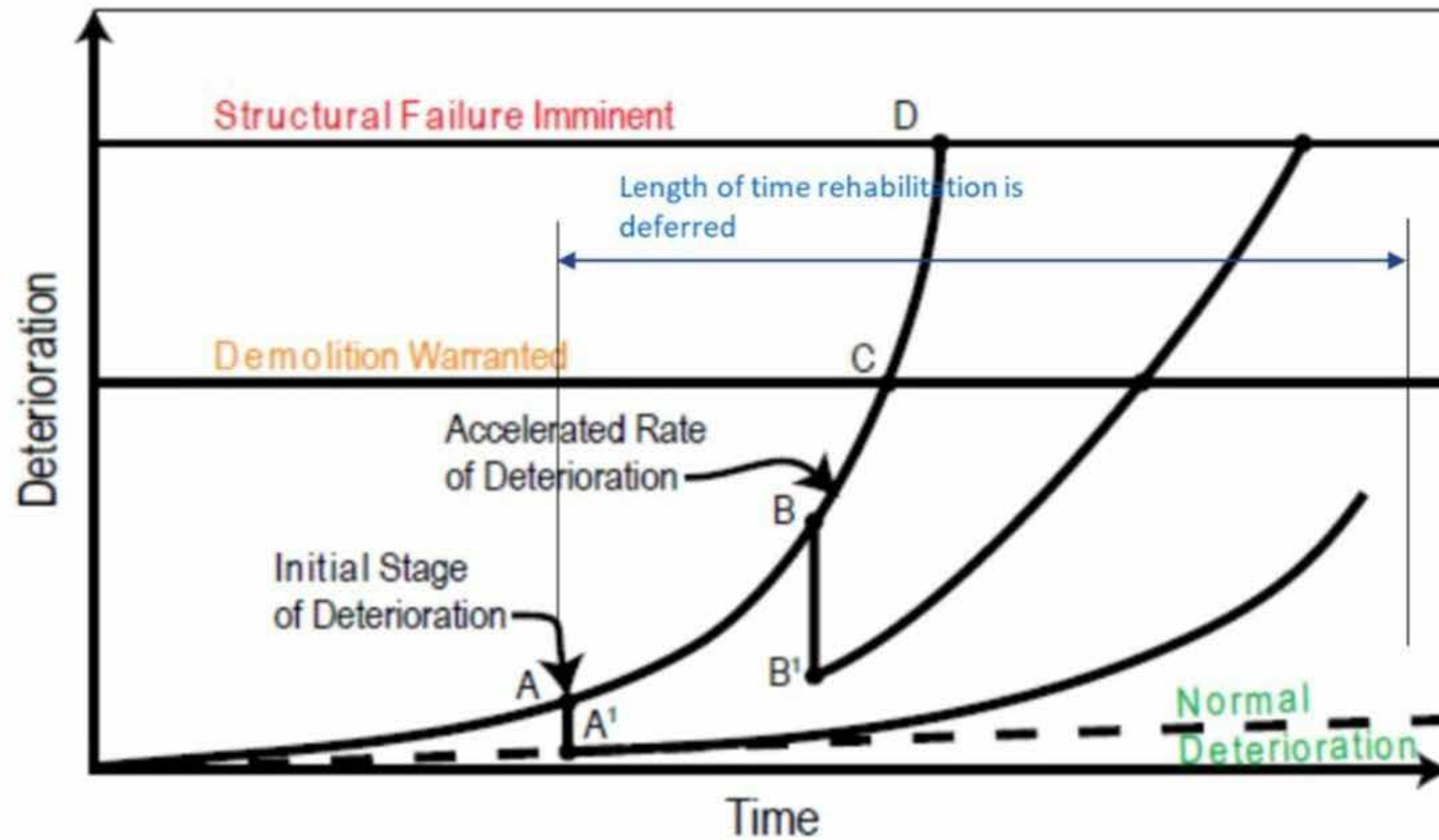
Electrolyte



Common Causes of Corrosion in Ports

- Chlorides (from saltwater)
- Carbonation (CO₂)
- Microbiologically influenced corrosion (MIC)
- Erosion Corrosion
- Stray Current!!





Source: Extending the Service Life of Parking Structures,
Shiu, K, and Stanish, K. Concrete International V. 30 No. 4

Schematic representation of relationship between deterioration and time for typical structure

Pearl Harbor



Lake Avenue Bascule Bridge



Assuring
Continuity



Forming up the
jackets

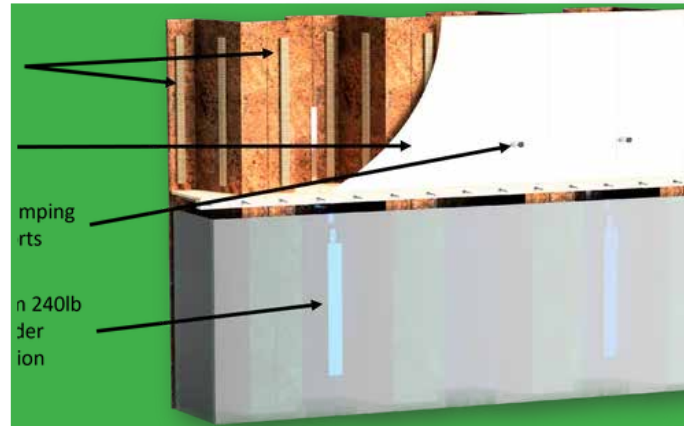


Finished Product

Cadet Point Marina

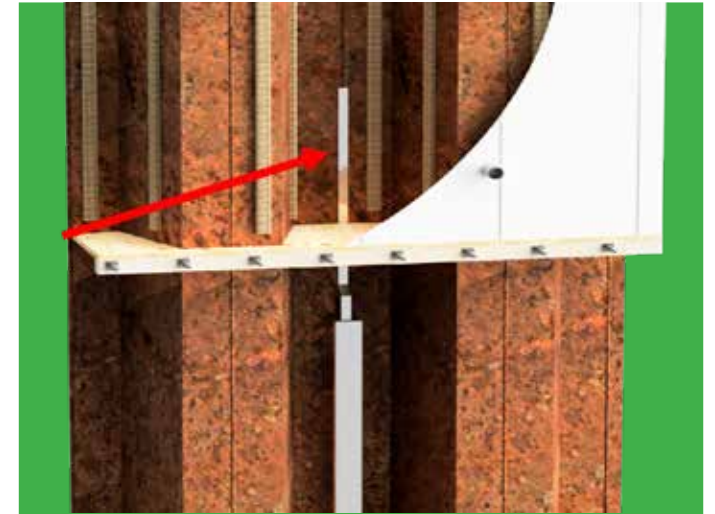


Corroding Sheet
Pile Wall



240 lb aluminum under
water

DAS zinc strip anodes
behind FRP



Welded above water to
minimize diver use



Cathodic Protection Systems for All Conditions

There is no one size fits all solution!

Galvanic Anodes

Impressed Current systems

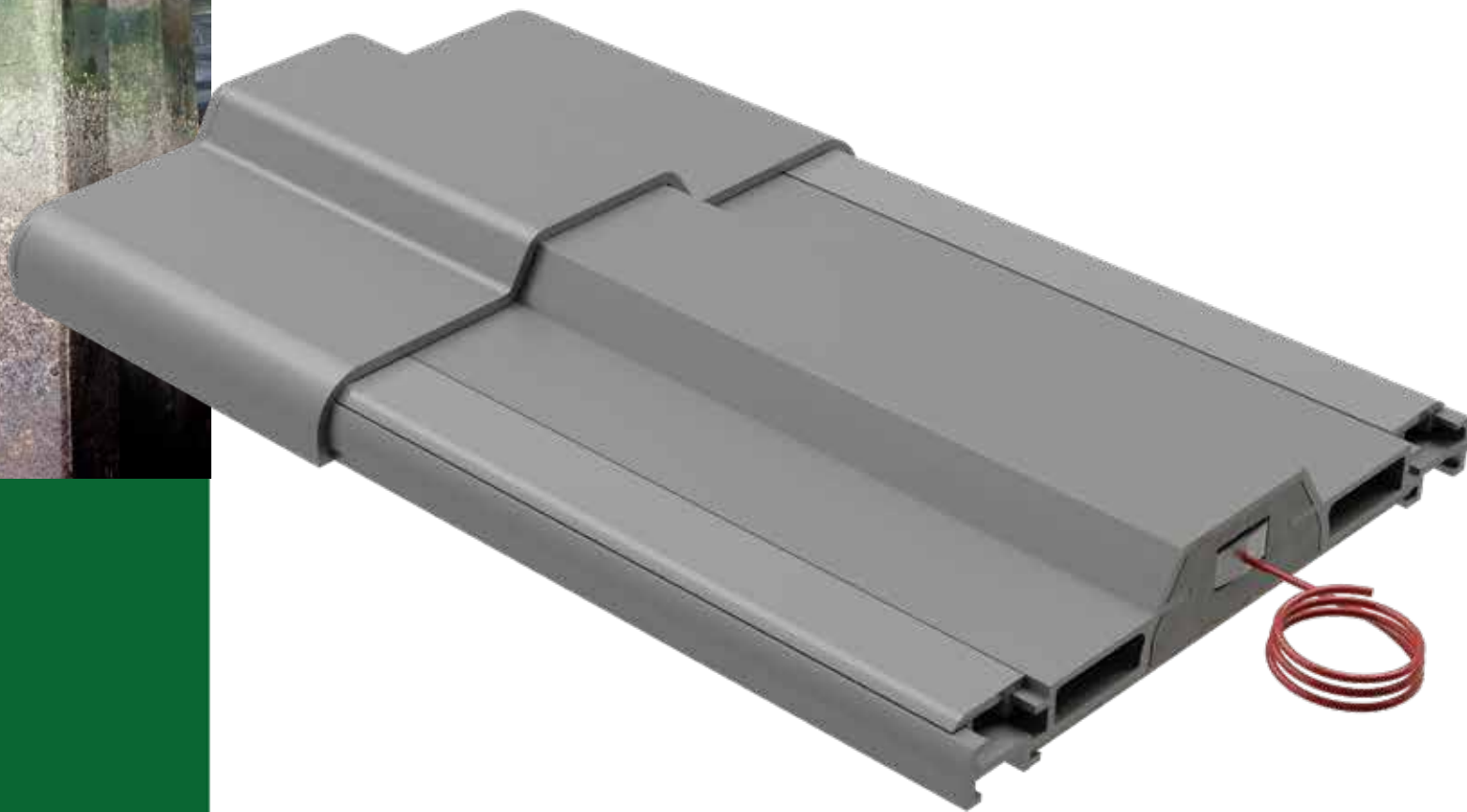
Combination systems for extreme tidal zones

****Surface Mounted Anodes****





**Surface Mounted
for Faster
Installation**



Please visit our Educational Website

www.WeSaveStructures.info

