

## LIDA® Rod Anodes

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**LIDA® Rod Anodes** are comprised of a titanium substrate with a mixed metal oxide coating. The mixed metal oxide is a crystalline, electrically-conductive coating that activates the titanium and enables it to function as an anode.

**Anode Life** — Due to the extremely low consumption rates and dimensional stability of mixed metal oxide anodes, the electrical resistance of LIDA® Rod Anodes remain essentially constant with time.

The high current density capacity of De Nora mixed metal oxide anodes has the added advantage of allowing high current overloads for initial polarization without causing harm to the anode.

Anode life projections are accurately made using the lifetime graphs (See Figures 1-7 on back).

**De Nora LIDA® Rod Anodes** are available in the following standard sizes:

- 1/8" x 4' • 1/4" x 4' • 1/2" x 4' • 3/4" x 4'

Selection of the anode coating is based on operating environment:

**FW** Freshwater or Brackish Water

**SWT** Seawater

### APPLICATIONS

- Process Vessels
- Water Condensor Boxes
- Heat Exchangers
- Water Intake Structures

### FEATURES

- High Current Output
- Low Coating Wear Rate
- Five Year Product Warranty
- Also available as Rod Anode Assemblies

### BENEFITS

- Lower Cost Per Ampere Year
- Constant Electrical Resistance
- No Hassles

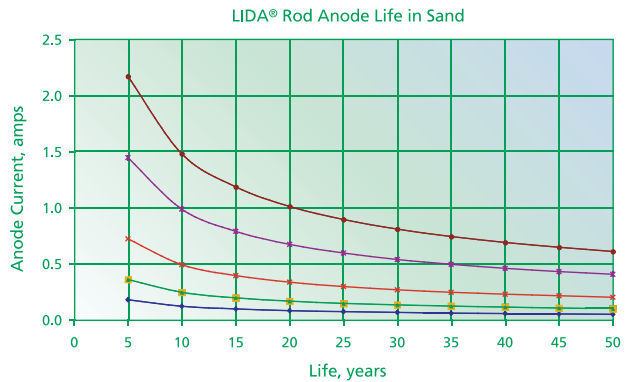
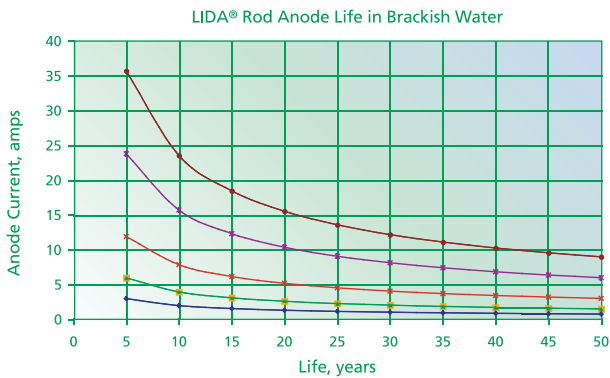
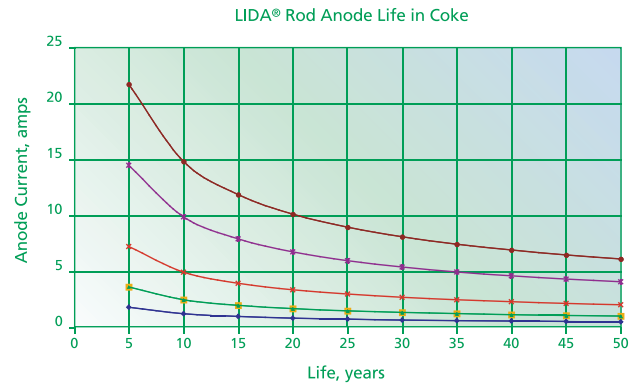
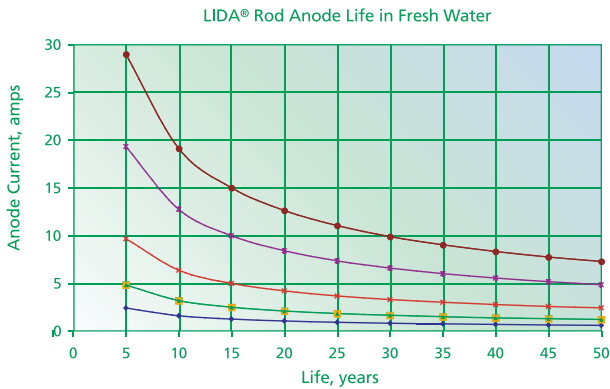
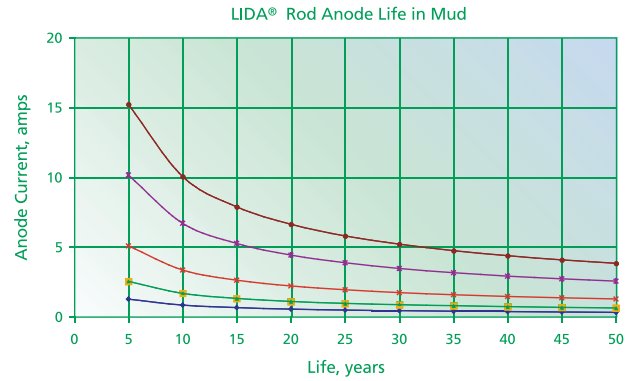
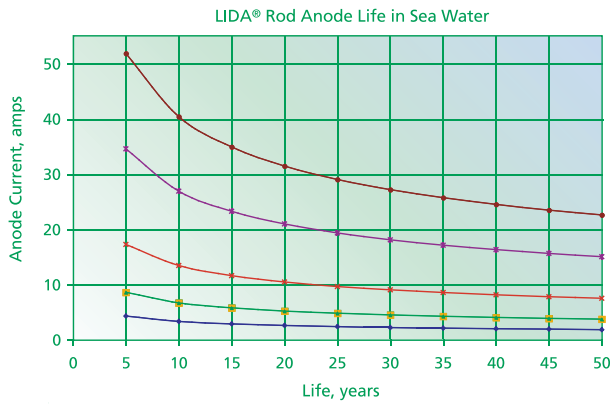
### Standard Rod Assemblies

| Part Number                      | Freshwater or Brackish Water |                     | Sea Water Environments |                     |
|----------------------------------|------------------------------|---------------------|------------------------|---------------------|
|                                  | FA-ROD 0.5FW                 | FA-ROD 0.75FW       | FA-ROD 0.5SW           | FA-ROD 0.75SW       |
| Max. current output              | 1.6amps                      | 2.4 amps            | 9.7 amps               | 14.6 amps           |
| Rod Diameter                     | 0.5 inch (1.27 cm)           | 0.75 inch (1.91 cm) | 0.5 inch (1.27 cm)     | 0.75 inch (1.91 cm) |
| Total Length                     | 24 inch (61 cm)              | 24 inch (61 cm)     | 24 inch (61 cm)        | 24 inch (61 cm)     |
| Active Length max-User specified | 16 inch (41 cm)              | 16 inch (41 cm)     | 16 inch (41 cm)        | 16 inch (41 cm)     |
| FRP Length                       | 6 inch (15 cm)               | 6 inch (15 cm)      | 6 inch (15 cm)         | 6 inch (15 cm)      |
| Maximum water velocity           | 2ft/sec (.6 M/sec)           | 5ft/sec (1.5 M/sec) | 2ft/sec (.6 M/sec)     | 5ft/sec (1.5 M/sec) |



# CATHODIC PROTECTION

## LIDA® Rod Anodes



**Maximum Current for LIDA® Rod Anodes (life in years)**

- 1/8 Rod, STD
- 1/8 Rod, XL
- 1/4 Rod, STD
- 1/4 Rod, XL
- 1/2 Rod, XL
- 3/4 Rod, XL

**STD = standard  
XL = extended life**

**Lifetimes for the  
1/4" STD and the  
1/8" XL are equivalent.**



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