

## SACRIFICIAL ANODES

# Pier, Piling, and Ballast Tank Cast Aluminum Anodes

### Corrosion Control In Saltwater Environments

Aluminum anodes are used more often than any other type of galvanic material in saltwater environments due to their relatively low consumption rate of approximately 7 lbs. per amp.-year. To meet the demand for this effective anode material, Corrpro manufactures an extensive array of aluminum anodes in two different alloys. The anodes are cast in a variety of weights and configurations to address numerous installation possibilities. Steel cores cast into each anode allow for electrical connection. The cores are available in bolt-on, eyebolt, pie, rod, or weld-on configurations, and can also be provided with lead wire upon request.

Because alloy composition is so important to the performance of galvanic anodes, Corrpro performs a number of quality control tests to ensure its aluminum anodes conform to the proper alloying specifications. The firm conducts atomic absorption, inductive coupled plasma, or Baird spectrovac optical emission tests to confirm chemical composition. The results of these tests are obtained using traceable standards developed by the National Institute of Standards and Technology.

### Typical Applications

Aluminum anodes produced by Corrpro are designed for superior performance in saltwater environments. The first alloy, which has an open circuit potential of 1.05 volts (with respect to an Ag/AgCl reference cell), contains a nominal amount of mercury, and is recommended for use only in free-flowing saltwater environments. The second anode has an open circuit potential of 1.10 volts, and produces a higher ampacity and better performance than the previous alloy in lower chloride water and saline mud electrolytes.

### CHEMICAL COMPOSITION

Element	Content %	
	Alloy 1	Alloy 2
Zn	0.35-0.50	2.8-3.5
Si	0.14-0.21 max	0.08-0.20 max
Hg	0.035-0.048	–
In	–	0.01-0.02
Aluminum	Remainder	Remainder



### Ordering Procedure

Corrpro aluminum anodes are manufactured in a variety of dimensions and weights, and are offered with several different core types. To order the required anode for your structure, indicate that you need an aluminum pier, piling, or ballast tank anode, and specify the quantity desired, alloy grade, anode type, and core configuration. All anodes are shipped without lead wire unless otherwise specified. An example is provided to help illustrate this process.

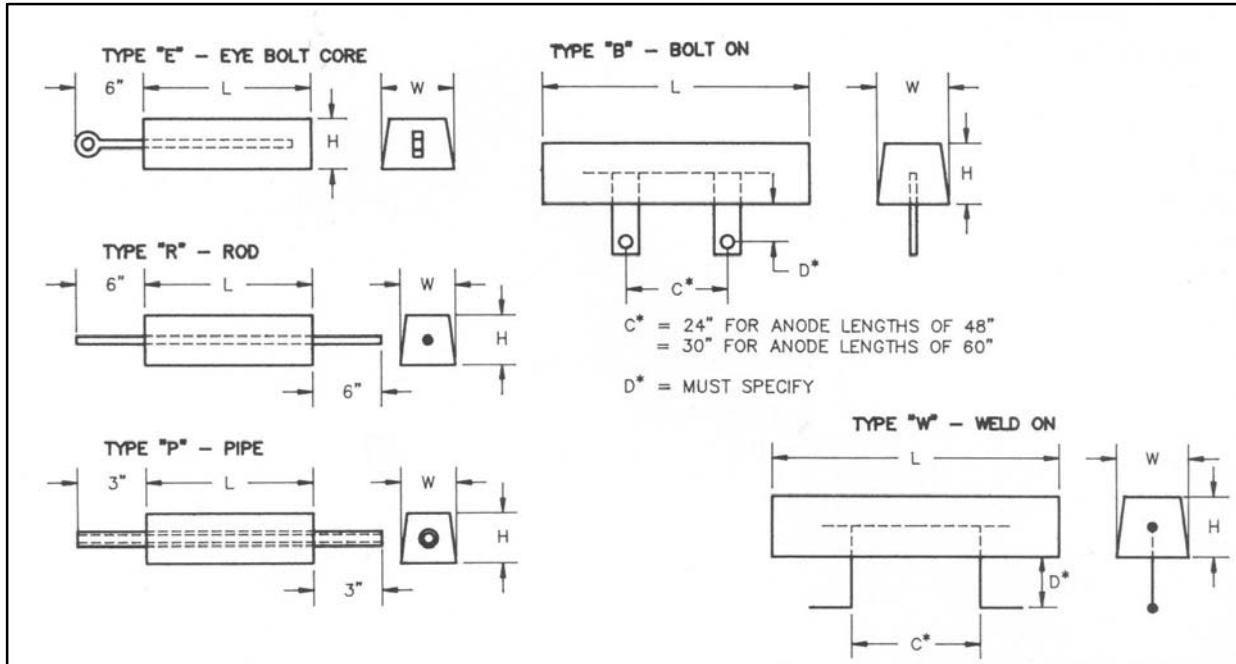


### Corrpro Companies Europe Limited

Adam Street, Bowesfield Lane, Stockton on Tees, TS18 3HQ  
 Telephone: (01642) 614106 (8 lines) Telex: 587388  
 Fax: (01642) 614100 E-mail: ccel@corrpro.co.uk

# Pier, Piling, and Ballast Tank

## Cast Aluminum Anodes



### Standard Dimensions and Shipping Weights

ANODE TYPE	NOMINAL DIMENSIONS			NOMINAL WT. lbs. (kg)	CORE AVAILABILITY (by type)
	L in. (mm)	W in. (mm)	H in. (mm)		
H43	48 (1219)	2 (51)	2 (51)	21 (9.5)	B, R, W
H44	60 (1524)	2 (51)	2 (51)	26 (11.8)	B, R, W
H63	48 (1219)	2.5 (64)	2.5 (64)	30 (13.6)	B, R, W
H30	34 (864)	3 (76)	3 (76)	30 (13.6)	E, P, R
<i>H64</i>	<i>60 (1524)</i>	<i>2.5 (64)</i>	<i>2.5 (64)</i>	<i>39 (17.7)</i>	<i>B, R, W</i>
H93	48 (1219)	3 (76)	3 (76)	48 (21.8)	B, R, W
H60-0	12 (305)	7 (178)	7 (178)	60 (27.2)	E, P, R
H60-1	24 (610)	5 (127)	5 (127)	60 (27.2)	E, P, R
H60-2	38 (965)	4 (102)	4 (102)	60 (27.2)	E, P, R
H90-0	18 (457)	7 (178)	7 (178)	90 (40.8)	E, P, R
H90-1	36 (914)	5 (127)	5 (127)	90 (40.8)	E, P, R
H100	60 (1524)	4 (102)	4 (102)	100 (45.4)	E, P, R
H120-0	12 (305)	10 (254)	10 (254)	120 (54.4)	E, P, R
H120-1	24 (610)	7 (178)	7 (178)	120 (54.4)	E, P, R
H120-2	489 (1219)	5 (127)	5 (127)	120 (54.4)	E, P, R
H175	36 (914)	7 (178)	7 (178)	175 (79.4)	E, P, R
H240	24 (610)	10 (254)	10 (254)	240 (108.9)	E, P, R

Available in other dimensions upon request

### Ordering Procedure Example

ITEM	EXAMPLE
Quantity	200
Anode Material	Aluminum Pier, Piling, Ballast Tank
Alloy Composition	Alloy 2
Anode Type	H64
Core Type	R



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