

SACRIFICIAL ANODES

Hull, Ballast Tank, and Condenser Cast Zinc Anodes

Protection for Marine Environments

Stopping corrosion begins with selecting an appropriate protection material. On many marine type structures, this material is zinc. To address the demand for this protective material, Corrpro manufactures hull, ballast tank, and condenser zinc anodes for use on structures in brackish and saltwater environments. The anodes are cast using 99.99%-pure high-grade zinc, and are alloyed to meet military specification MIL-A-19001 and the ASTM-B-418, Type I chemical composition standard. Through the addition of nominal percentages of aluminum and cadmium, Corrpro zinc anodes are resistant to the formation of zinc hydroxide around the anode surface, which restricts current flow and can shorten anode life. Their unique composition also allows for a current capacity of 354 amp.-hrs./lb., and an open current voltage of 1.05 (with respect to an Ag/AgCl reference cell).

All Corrpro marine zinc anodes are manufactured using galvanized steel cores. By galvanizing the cores, a stronger bond is created, thus minimizing the chance for core separation and anode defect. The cores are available in strap, pipe, or rod configurations, allowing



numerous mounting possibilities. Other measures taken to ensure quality include the performance of chemical analysis and electrochemical tests.

Typical Applications

Corrpro hull, ballast tank, and condenser anodes are designed for use on ships, vessels, piers, pilings, and other metal structures in brackish and saltwater environments. The use of these anodes should be avoided in areas where temperatures may exceed 140°F, or which contain high alkalinity (above 9.5 pH). This is because zinc is prone to polarity reversal in these areas.

CHEMICAL COMPOSITION

Element	Content %
Al	0.1-0.5
Cd	0.02-0.07
Fe	0.005 max
Pb	0.006 max
Cu	0.005 max
Zinc	remainder



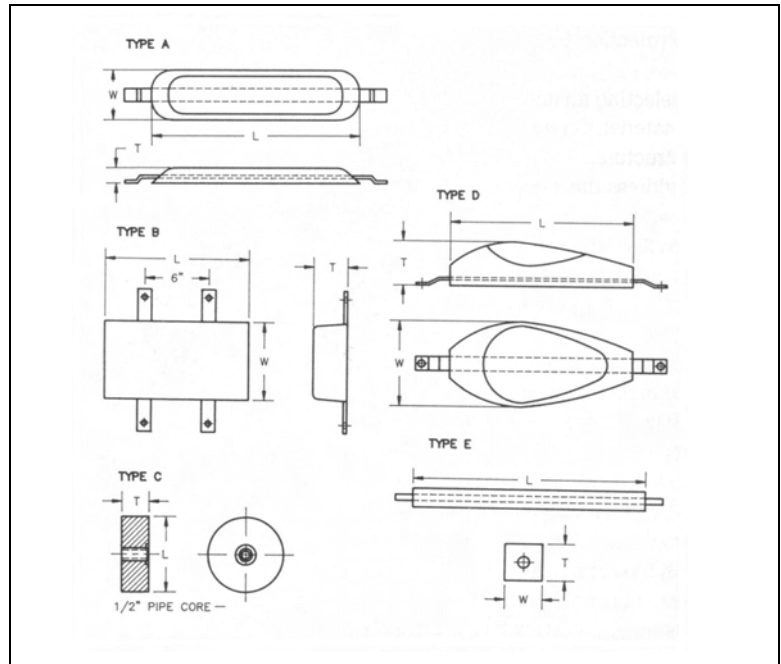
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Ordering Procedure

Corpro offers a complete line of marine zinc anodes to address a multitude of applications. To order the required anode for your structure, indicate that you need a zinc hull, ballast tank, or condenser anode, and specify the quantity desired, the anode model number, and the core mounting style. An example is provided to help illustrate this process.

Ordering Procedure Example	
ITEM	EXAMPLE
Quantity	200
Anode Material	Zinc Hull, Ballast Tank, Condenser
Anode Type	Hull
Model Number	M-24
Core Mounting Style	Weld



Standard Dimensions and Shipping Weights

ANODE TYPE	MODEL NO.	NOMINAL DIMENSIONS in. (mm)			DWG. TYPE	BARE WT. lbs. (kg)	CORE STYLE
		"L"	"W"	"T"			
Hull	LL-26	14 (355.6)	4.5 (114.3)	2.25 (57.2)	A	26 (11.8)	Bolt, Weld
Hull	LL-48	24 (609.6)	4.5 (114.3)	2.25 (57.2)	A	48 21.7	Weld
Hull	M-24	12 (304.8)	6 (152.4)	1.25 (31.8)	B	23 (10.4)	Weld
Hull	M-6	9 (228.6)	3 (76.2)	1.25 (31.8)	D	5 (2.3)	Bolt, Weld
Hull	M-12	12 (304.8)	3 (76.2)	1.25 (31.8)	A	12 (5.4)	Weld
Ballast Tank	TZ-27	48 (1219)	1.4 (35.6)	1.4 (35.6)	E	27 (12.2)	Rod/ Bent Rod
Ballast Tank	TZ-50	48 (1219)	2 (50.8)	2 (50.8)	E	50 (22.7)	Rod/ Bent Rod
Condenser	CZ-5	5 (127)	— —	1 (25.4)	C	5 (2.3)	Pipe

Other sizes available upon request.



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