

# Belmont METALS INC.

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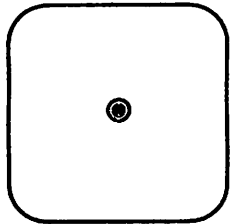
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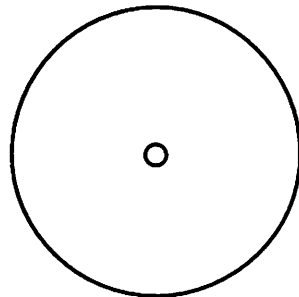
## BELMONT ZINC CATHODIC ANODES

- For Cathodic Protection Of Marine Structures -
- For Compliance With MIL-A-18001, ASTM 418, or Other Requirements -

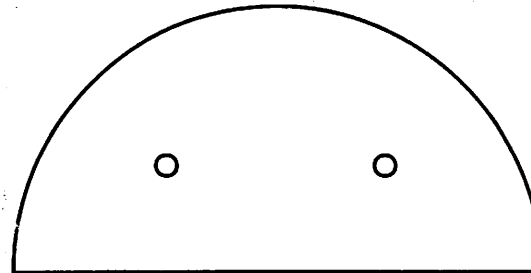
Belmont Metals Inc., an exceptionally diversified producer of non ferrous metals, alloys, and metal products since 1896, has been a leading manufacturer of zinc cathodic anodes for over 50 years. Our plant features state-of-the-art quality control to help assure optimum anode performance. The following drawings and descriptive information, including the data tables on the reverse, provide basic information on our standard zinc cathodic anodes used to help protect against corrosion of boat, ship, and submarine hulls; seawater sides of condensers and other heat exchangers; and other structures exposed to salt water and salt air. Belmont also offers custom formulas, shapes, sizes, and straps. Contact us today for a discussion of your particular needs.



STYLE A



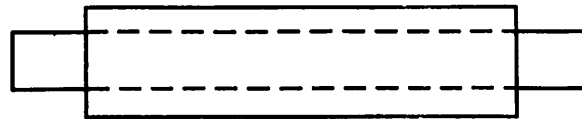
STYLE B



STYLE C

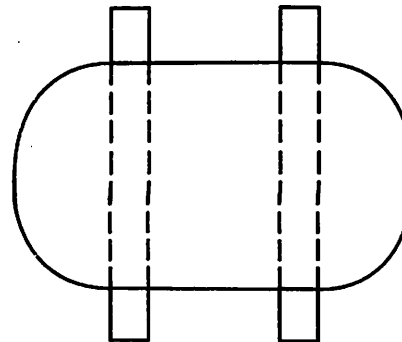
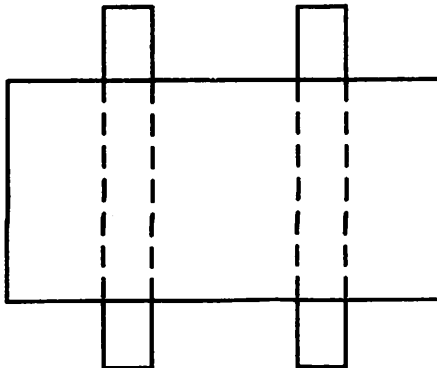
### Type ZEP

Square, circular, and semicircular slabs for mounting via lugs on condensers and other heat exchangers. Pipe cores are 3/8" (0.493"OD) or 1/2" (0.622" OD) galvanized steel IPS pipe inserts per ASTM A53. Cadmium plated inserts may be available for special applications.



### Type ZSS

Rectangular slab for mounting on boat or ship hulls, via galvanized steel strap core that conforms to ASTM A36. Also available with mounting holes in strap.



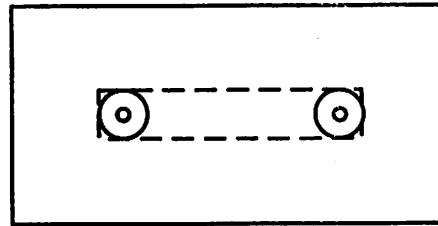
### Type ZHS/ZHB/ZHST

Rectangular slab or tapered anode for mounting on boat or ship hulls, via galvanized steel strap cores that conform to ASTM A36, or brass strap cores that conform to alloy 482 of QQ-B-639, or phosphor-bronze strap cores that conform to composition A of QQ-B-750. Also available with mounting holes in straps.



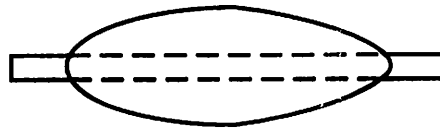
### Type ZRN

Zinc rod, no core, extruded, drawn, or rolled.



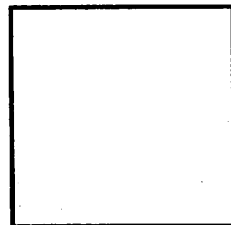
### Type ZHC

Rectangular slab for mounting on boat, ship, or submarine hulls, via one galvanized steel strap core that conforms to ASTM A36, and two lugs.



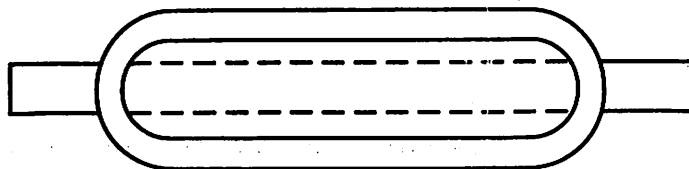
### Type ZTS

Teardrop anode, single galvanized steel strap core conforming to ASTM A36.



### Type ZPN

Zinc plate, no core, rolled.



### Oval

Oval slab for mounting on hulls via straps.

Note: Illustrations are shown approximately to scale. (3/16" = 1")

(ANODE DATA ON REVERSE)

ZRN****	3/8" dia. to 2" dia.	depends on size	depends on size	
ZTS	1 3/8"x3"x9"	5 lbs.	1/4 amp-yr.	Single steel strap.
ZPN	various sizes	various	depends on size	As required.
OVAL	2 1/4"x4 1/2"x14" *	26 lbs.	1 amp-yr.	Single steel strap
	2 1/4"x4 1/2"x24" *	48 lbs.	2 amp-yrs.	Single steel strap
ZBP	2" x 2" x 7 1/2"	8 lbs.	-----	One 1/2" NPS insert (12" long)
ZMP	various sizes	various	depends on size	One 3/8" pipe

\*Not in Mil-A-18001 Specification

\*\* Tolerance for dimensions indicated is +/- 1/8", unless otherwise indicated. Dimensions do not include straps.

\*\*\* Weights are approximate.

\*\*\*\* Only certain sizes meet mechanical requirements of MIL-A-18001.

#### Chemical Composition per MIL-A-18001 (%)\*

Lead (max)	Iron (max)	Cadmium (range)	Copper (max)**	Aluminum (range)	Zinc
0.006	0.005	0.025-0.07	0.005	0.1-0.5	Remainder

\* Total of elemental constituents not specified; considered contaminants shall not exceed 0.10%.

\*\* Increase to 0.020% is allowed when cast-in straps are brass or phosphor bronze instead of galvanized steel.

Note: The information contained in this data sheet is the most accurate in our possession at the time of publication, and is based on our effort to meet accepted industry references, standards, and specifications. However, Belmont cannot assume responsibility for in-service performance of these products due to our lack of control over, or supervision of, their use.

ANODE DATA

Anode Type	Dimensions**	Weight***	Current Rating	Mounting
ZEP				
Style A	1" x 6" x 6"	9 lbs.	1/3 amp-yr.	One 1/2" IPS insert
Style B	1" x 12" dia. *	29 lbs.	1 3/4 amp-yrs.	One 1/2" IPS insert
	1" x 11" dia.	24 lbs.	1 amp-yr.	Two 1/2" IPS inserts
	1" x 10" dia. *	20.5 lbs.	1 amp-yr.	One or two 1/2" IPS inserts
	1" x 9" dia.	16 lbs.	2/3 amp-yr.	Two 1/2" IPS inserts
	1" x 6" dia.	7.2 lbs.	1/3 amp-yr.	One 1/2" or 3/8" IPS insert
	1" x 5" dia.	4.9 lbs.	0.20 amp-yr.	One 3/8" IPS insert
	1" x 4" dia.	3.2 lbs.	0.14 amp-yr.	One 3/8" IPS insert
	1" x 3" dia.	1.8 lbs.	0.08 amp-yr.	One 3/8" IPS insert
	1" x 2" dia.	0.8 lbs.	0.03 amp-yr.	One 3/8" IPS insert
Style C	1" x 15" dia.	23 lbs.	3/4 amp-yr.	Two 1/2" IPS inserts
ZSS-6	1 1/4" x 3" x 6" *	6 lbs.	1/2 amp-yr.	One steel strap
ZSS-12	1 1/4" x 3" x 12"	12 lbs.	1/2 amp-yr.	One steel strap
ZSS-24	2 1/2" x 3 1/2" x 12"	24 lbs.	1 amp-yr.	One steel strap
ZHS/ZHB-23	1 1/4" x 6" x 12"	23 lbs.	1 amp-yr.	Two steel or brass straps
ZHST-23	1 1/4" x 6" x 12" *	23 lbs.	1 amp-yr.	Two steel straps (tapered anode)
ZHS-42	2 1/2" x 6" x 12"	42 lbs.	2 amp-yrs.	Two steel straps
ZHS-50	2" x 4" x 24" *	50 lbs.	2 1/4 amp-yrs.	Two steel straps
ZHC-23	1 1/4" x 6" x 12"	23 lbs.	1 amp-yr.	Two recessed 5/8" holes
ZHC-42	2 1/2" x 6" x 12"	42 lbs.	2 amp-yrs.	Two recessed 5/8" holes
ZHC-50	2" x 4" x 24" *	50 lbs.	2 1/4 amp-yrs.	Two recessed 5/8" holes