

Zinc Anode

■ General

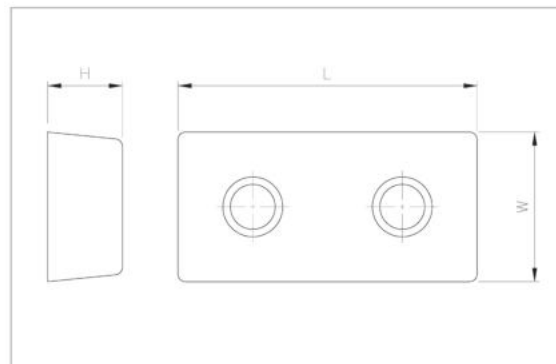
Zinc has the longest history of use in sacrificial cathodic protection methods. Zinc has been widely used for decades for both marine and soil applications. Zinc anodes are usually applied in low resistivity soils below 1,000 ohm-cm and in seawater or produced brines. Zinc is excellent when used as electrical grounds and special 99.99% pure Zinc is used as permanent reference electrodes under tank bottoms and inside vessels.

■ Product Properties

Open Circuit Potential Cu/CuSO ₄ [-mV]	Theoretical Current Capacity [A · hr/Kg]	Effective Current Capacity [A · hr/Kg]	Current Efficiency [%]	Consumption Rate [Kg/A·yr]	Specific Gravity
1,100	820	780	95	11.23	7.1

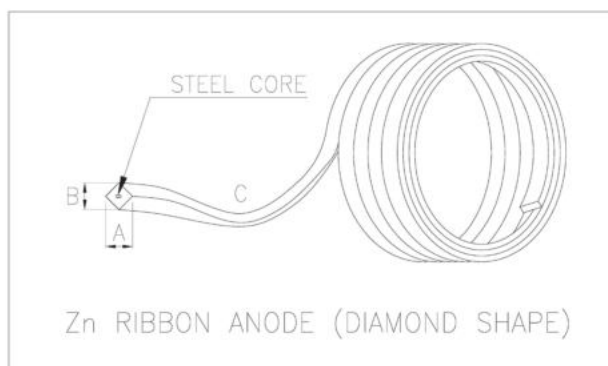
■ Zn Anode (Plate Type) Nominal Dimension and Weight

Type	Dimension [mm]	Weight [Kg]	Remarks
	L x W x H		
B1 BTYPE	100 x 100 x 50	3.0	
B2 BTYPE	200 x 100 x 20	2.4	
B3 BTYPE	200 x 100 x 30	3.6	
B4 BTYPE	200 x 100 x 50	6.4	
B5 BTYPE	300 x 150 x 50	14.8	



■ Zn Anode (Ribbon Type) Nominal Dimension and Weight

Type	Dimension [mm]				Weight [Kg/m]	Remarks
	A [mm]	B [mm]	C [m/Drum]	Dia. of Steel Core [mm]		
Small	8.73	11.91	305	2.92	0.37	
Standard	12.7	14.29	250	3.30	0.89	
Plus	15.88	22.23	180	3.43	1.78	
Super	25.4	31.75	30.5	4.70	3.57	



■ Chemical Composition

Element	DYCE	MILL SPEC. A-18001K	ASTM B418 TYPE I	ASTM B418 TYPE II
Al	0.1~0.5%	0.1~0.5%	0.1~0.5%	0.005 Max
Cd	0.05~0.3%	0.025~0.07%	0.025~0.07%	0.003 Max
Pb	-	0.006 Max	0.006 Max	0.003 Max
Cu	-	0.005 Max	0.005 Max	0.002 Max
Fe	-	0.005 Max	0.005 Max	0.0014 Max
Si	-	0.125 Max		

* The chemical composition according to the international specification standard can be adjusted.

■ Application

- Condenser, Hull, Ballast tank, Pier, Pile, Off-shore pipeline, Heat exchanger, Grounding cell, etc.