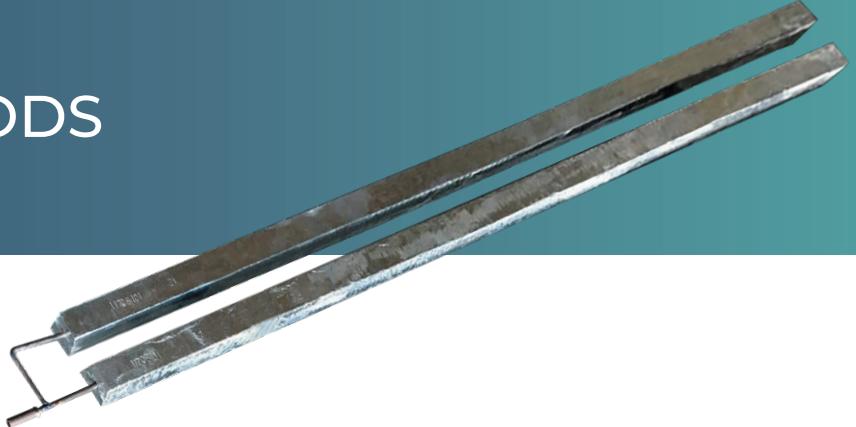




ZINC EARTHING RODS



50 YEARS EXPERIENCE IN CATHODIC PROTECTION

J
JENNINGS ANODES

ZINC EARTHING RODS

DATA SHEET

Regarded as an earthing cell, zinc rod is commonly pre-packaged in the cotton bag filled with low resistivity backfill. Typically, two zinc anode units will be packed together — one is connected to the protected structure, and the other is connected to an earthing device.

CHEMICAL COMPOSITION

Element \ Standard	ASTM – B418 Type I	ASTM – B418 Type II
Aluminum (Al)	0.1% ~ 0.5%	0.005% max.
Lead (Pb)	0.006% max.	0.003% max.
Iron (Fe)	0.005% max.	0.004% max.
Copper (Cu)	0.005% max.	0.002% max.
Cadmium (Cd)	0.025% ~ 0.07%	0.003% max.
Total Impurities	0.1% max.	0.1% max.
Zinc (Zn)	Remainder	Remainder

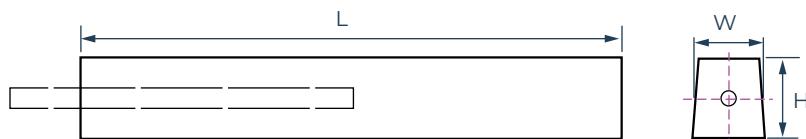
ELECTROCHEMICAL PROPERTIES

Technical Measurement	ASTM – B418 Type I	ASTM – B418 Type II
Open Circuit Voltage (-V)	1.05 min.	1.10 min.
Closed Circuit Voltage (-V)	1.00 min.	1.05 min.
Current Capacity	354 A.h/lbs (780 A.h/kg)	335 A.h/lbs (740 A.h/kg)
Current Efficiency	95%	90%
Consumption Rate	24.8 lbs/A.y (11.2 kg/A.y)	26.2 lbs/A.y (11.9 kg/A.y)

* The open/closed circuit voltage is with respect to a saturated calomel electrode.



SPECIFICATIONS



Item No.	Anode Dimensions			Anode Qty.	Weight	
	W	H	L		Bare	Packaged
JA-ZC-E01	1.4" (35 mm)	1.4" (35 mm)	60" (1524 mm)	2	60.0 lbs (27.2 kg)	116.8 lbs (53 kg)
JA-ZC-E02	2.0" (51 mm)	2.0" (51 mm)	60" (1524 mm)	2	120.4 lbs (54.6 kg)	202.8 lbs (92 kg)
JA-ZC-E03	1.4" (35 mm)	1.4" (35 mm)	60" (1524 mm)	1	30.0 lbs (13.6 kg)	94.8 lbs (43 kg)
JA-ZC-E04	2.0" (51 mm)	2.0" (51 mm)	45" (1143 mm)	1	45.2 lbs (20.5 kg)	99.2 lbs (45 kg)

Notes: All dimensions and weights are nominal. The parameter provided is subject to variation in material compositions and Jennings Anodes foundry tolerance.

TESTING DETAILS

We employ ISO 9001:2015 quality management system and rigorous internal testing standards to ensure the optimum lifespan and performance of our anodes. Each anode is labelled with a unique serial number for quality tracking.

Technical Measurement	Chemical Composition	Electrochemical Performance	Physical Properties
Testing Standard	ASTM-B418	NACE TM0190	Foundry ITP
Testing Content	Chemical Analysis	Circuit Potential Current Capacity Current Efficiency Electrical Resistance	Dimension & Weight Surface Finish Steel Insert
Equipment	Optical Emission Spectrometer OBLF QSN 750	Electrochemical Analyzer EPI 200	Calibrated Digital Measuring Devices

* Third party testing is conducted by customer's special request at extra charge.



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