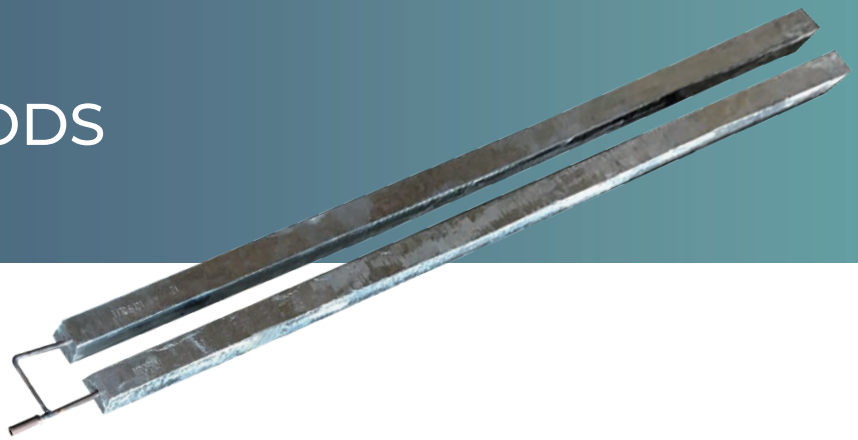
ZINC EARTHING RODS



50 YEARS EXPERIENCE IN CATHODIC PROTECTION

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

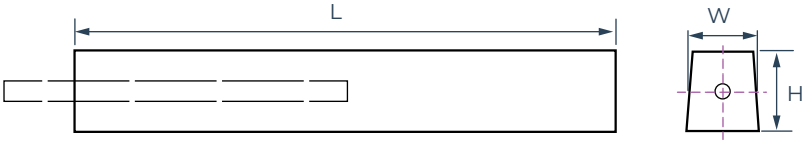
Element \ Standard	ASTM – B418 Type I	ASTM – B418 Type II
Aluminum (Al)	0.1% ~ 0.5%	0.005% max.
Lead (Pb)	0.006% max.	0.003% max.
Iron (Fe)	0.005% max.	0.0014% max.
Copper (Cu)	0.005% max.	0.002% max.
Cadmium (Cd)	0.025% ~ 0.07%	0.003% max.
Total Impurities	0.1% max.	0.1% max.
Zinc (Zn)	Remainder	Remainder

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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