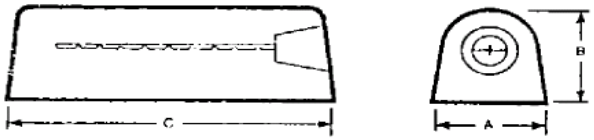
PETUNIA INVISIBLE PROTECTION	CATHODIC PROTECTION DATA SHEET Material/Equipment Magnesium Anode	Doc. No.: CP-DSH-MGA Rev.: D02

ANODE TYPE	Magnesium cast anode	☐ Standard Alloy ☑ High Potential Alloy
RELEVANT STANDARDS	✓IPS-M-TP-750/3 ✓ASTM B275, designation MIC (Galvomag) ✓ASTM B843, designation MIC (Galvomag)	
SIZE AND SHAPE		
WEIGHT	32 Lbs	
Consumption Rate	7.3 Kg/A.years	
COMPOSITION		

WEIGH kg (lbs)	DIMENSIONS (mm) A	B	C	TOTAL PACKAGED WEIGHT (APPROX.) kg
4.1 (9)	90	90	350	10
7.7 (17)	90	90	650	20
14.5 (32)	140	140	540	30
21.8 (48)	140	140	820	45

Chemical composition	Standard potential	High potential
Aluminium (Al)	5.3-6.7%	0.01% max
Zinc (Zn)	2.5-3.5%	-
Copper (Cu)	0.02% max	0.02% max
Silicon (Si)	0.10% max	-
Manganese (Mn)	0.15-07% max	0.5-1.3%
Iron (Fe)	0.003% max	0.03% max
Nickel (Ni)	0.002% max	0.001% max
Total other impurities	0.30% max	-
Magnesium (Mg)	Balance	Balance

ANODE CORE	Made from commercial hot dipped galvanized
CABLE	10m Cable 1x 16mm^2 single cores, standard soft annealed copper conductor, with XLPE/PVC insulation

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CABLE TO ANODE CONNECTION	✓Brazed connection or silver solder connection ✓The lead wire to anode core will be sealed to water intrusion by epoxy		
ANODE Backfill	Gypsum, Bentonite, Sodium Sulphate		
INSPECTION AND TEST	✓Visual Inspection against any metallurgical defects ✓Anode to cable resistance test ✓weighting of anode with & without backfill		
FEATURES	✓Pre packaged in backfill		
Electrical Specification	Utilisation Factor:	0.85	---
	Efficiency (Min):	50	%
	Potential: (Respect to $Cu/CuSo_4$ reference electrode)	-1.75	V