



Technical Product Information
CATHODIC PROTECTION
IMPRESSED CURRENT SYSTEMS

ELGARD™ 150 ANODE MESH

Elgard 150 Anode Mesh

Performance specifications

Current Rating @ 110 mA/sq.m (10mA/sq.ft)	18.8mA/sq.m (1.71 mA/sq.ft)
Expected life (NACE standard TM02944-94)	75 years
Catalyst	Mixed Metal Oxide
Maximum anode concrete interface current density	
FHWA limit	110mA/sq.m (10mA/sq.ft)
Short-term limit	220mA/sq.m (20 mA/sq.ft)

Dimensions

Width of roll	1.14m (3.75ft)
Length of roll	81m (267ft)
Area per roll	92.9sq.m (1,000ft)
Actual anode surface per unit area of concrete	0.17sq.m/sq.m(0.17sq.ft/sq.ft)
Expanded thickness	1.415 mm (0.056")
Diamond dimensions	34mmx76mmx0.64mm
Shipping weight per coil	26 Kg (56 lbs)

Substrate

Composition	Titanium, Grade 1 per ASTM B265
Coefficient of thermal expansion	8.7 x 10 ⁻⁵ /Deg K (0.0000048/in/in/Deg K)
Thermal conductivity @ 20 Deg C	15.6 W/sq.m-DegK (9.0 BTU/hr/sq.ft/Deg F./ft)
Electrical resistivity	0.000056 ohm-cm (0.000022 ohm-in
Modulus of elasticity	105 GPa (14,900,000 PSI) minimum
Tensile strength	245 MPa (35,000 PSI) minimum
Yield strength	175 MPa (25,000 PSI) minimum
Elongation	24% minimum
Resistance lengthwise	0.085 ohm/m (0.026 ohm/ft)
Current distributor resistance lengthwise	0.049 ohm/m (0.015 ohm/ft)
Resistance widthwise w/current distributor	0.023 ohm/m (0.007 ohm/ft)



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