



Technical Product Information
CATHODIC PROTECTION
IMPRESSED CURRENT SYSTEMS

ELGARD™ 170 ANODE RIBBON MESH

Elgard 170 Anode Ribbon Mesh

Performance specifications

Current Rating @ 110 mA/sq.m (10mA/sq.ft)	5.3mA/m (1.61 mA/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	20mm (0.79")
Coil length	76m (250ft)
Actual anode surface per unit length of anode	0.050sq.m/m(0.165sq.ft/ft)
Expanded thickness	1.30 mm (0.051")
Diamond dimensions	2.5mmx4.6mmx0.6mm
Shipping weight per coil	2.8 Kg (6.1 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	0.25 ohm/m (0.076 ohm/ft)
Current distributor resistance lengthwise	0.049 ohm/m (0.015 ohm/ft)



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