



Technical Product Information  
CATHODIC PROTECTION  
IMPRESSED CURRENT SYSTEMS

## ELGARD™ 300 ANODE MESH

Elgard 300 Anode Mesh

### Performance specifications

Current Rating @ 110 mA/sq.m ( 10mA/sq.ft)	37.8mA/sq.m (3.44 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	1.22m (4ft)
Length of roll	76m (250ft)
Area per roll	92.9sq.m (1,000ft)
Actual anode surface per unit area of concrete	0.34sq.m/sq.m(0.34sq.ft/sq.ft)
Expanded thickness	1.981 mm (0.078")
Diamond dimensions	25mmx51mmx0.89mm
Shipping weight per coil	43 Kg (95 lbs)

### Substrate

Composition	Titanium, Grade 1 per ASTM B265
Coefficient of thermal expansion	8.7 x 10 <sup>-5</sup> /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	245 MPa (35,000 PSI) minimum
Yield strength	175 MPa (25,000 PSI) minimum
Elongation	24% minimum
Resistance lengthwise	0.027 ohm/m (0.008 ohm/ft)
Current distributor resistance lengthwise	0.049 ohm/m (0.015 ohm/ft)
Resistance widthwise w/current distributor	0.013 ohm/m (0.004 ohm/ft)



CORRPRO Companies Europe Limited  
Adam Street, Bowesfield Lane, Stockton-on-Tees, TS18 3HQ  
Telephone: ++44 (01642) 614106 ( 8 lines )  
Fax: ++44 (01642) 614100 E Mail: ccel@corrpro.co.uk