

Anode Mesh

MMO Anode Mesh

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Corrosion is probably the most significant cause of deterioration of reinforced concrete structures and masonry clad steel-framed buildings. Cathodic protection systems prevent corrosion of the steel and preserve the integrity of the structure. Corrpro offers a wide range of materials for the cathodic protection of reinforced concrete structures and steel-framed buildings.

Depending on the application and structure design, different products may be used. For impressed current cathodic protection systems, MMO (mixed metal oxide) anode mesh and ribbon mesh are popular choices, offering even and uniform current distribution.

All LIDA® NET anode and ribbon mesh products are manufactured on an ASTM B 265 Grade 1 titanium substrate with an MMO activation coating.

All LIDA® products comply with the extended NACE TM-0294-2001 protocol testing. Corrpro is a licensed worldwide distributor of LIDA® anode and ribbon mesh.

Standard Applications

Anode mesh is typically used in overlay systems for larger areas such as bridge decks. Ribbon mesh can be installed during the construction phase on rebar using plastic spacers before concrete pouring. It can also be installed after construction in pre-cut slots.

Applications where LIDA® Anode and Ribbon Mesh have been used include:

- Multi-story parking garages
- Bridges
- Buildings
- Cooling towers
- Marine structures including jetties

Installation

- Corrpro also provided installation products and materials including:
- Titanium Conductor Bar
- Rebar Clips etc.

LIDA® NET SPECIFICATIONS			
Technical Data	LIDA® CN15	LIDA® CN25	LIDA® CN35
Maximum rated current output per unit of concrete surface	20 mA/m ²	30 mA/m ²	40 mA/m ²
FHWA maximum anode current density(*)	110 mA/m ²	110 mA/m ²	110 mA/m ²
(*)Anode current density may be increased to 220 mA/m ² . in the short term, during initial polarization, the anode current density may be increased to 400 mA/m ² .			
Substrate material	ASTM 8 265 TITANIUM grade 1		
Catalyst	Mixed Metal Oxide for Oxygen Evolution		
Nominal diamond dimensions	85mm x 38mm	62mm x 22mm	40mm x 19mm
Nominal thickness (Approx)	1.8 mm	1.8 mm	2 mm
Lengthwise Electrical Resistance (1, 2 m wide strip)	0.080 Ohm/m	0.070 Ohm/m	0.039 Ohm/m
With current distributor bar type 1:	0.013 Ohm/m	0.011 Ohm/m	0.009 Ohm/m
With current distributor bar type 2:	0.017 Ohm/m	0.013 Ohm/m	0.011 Ohm/m
Net roll nominal dimensions			
Width	1.24 m	1.24 m	1.24 m
Length	50 m	50 m	50 m
Weight per roll(Approx)	10 Kg	13 Kg	16 Kg
Weight/m ² of net(Approx)	0.16 Kg/m ²	0.22 Kg/m ²	0.27 Kg/m ²
Current Distributor			Electrical resistance
Type 1	15mm(width) x 1mm(thickness)		0.037 Ohm/m
Type 2	10mm(width) x 0.5mm(thickness)		0.11 Ohm/m