

MMO MESH RIBBON ANODE - Concrete Cathodic Protection

Anode Ribbon Mesh is a key component for Cathodic Protection systems in new reinforced concrete structures. It is composed of a precious metal oxide catalyst sintered onto an expanded titanium mesh substrate.

MATERIAL SPECIFICATIONS

Anode Performance:

Maximum anode concrete interface current density:

FHWA limit: 110 mA/m²

Short-term limit: 220 mA/m²

Type	Width	Current Output	Anode Surface Area
A	10 mm	2.8 mA/m	0.027 m ² /m
B	13 mm	3.5 mA/m	0.032 m ² /m
C	19 mm	5.28 mA/m	0.048 m ² /m

Expected life (NACE Standard TM 0294-2016): 75 years

Catalyst: Mixed Metal Oxide

Expanded thickness: 0.9-1.3 mm

Dimensions common to all types

Substrate:	
Material	Titanium, Grade 1, as per ASTM B265
Coefficient of thermal expansion	8.7 x 10 ⁻⁵ /° K
Thermal conductivity at 200° C	15.6 W/m° K
Electrical resistivity	0.000056 ohm-cm
Modulus of elasticity	105 GPa
Tensile strength	245 MPa
Yield strength	175 MPa
Elongation	24% minimum

Titanium Conductor Bar	
Type	Solid Ribbon
Material	Titanium, Grade 1, as per ASTM B265
Dimension	12.7mm (W) x 0.9mm (T)
Electrical Resistance	0.11 Ohm/m

MMO TITANIUM MESH RIBBON ANODES



TITANIUM CONDUCTOR BAR

