

Betelguard Ribbon Mesh Anode is typically used for new and existing concrete structures. It is produced based on the over 30-years MMO technology. The quality of each batch of the anode is electrochemically inspected using the highest quality control standard.

Anode Performance

Expected life (NACE Standard TM02944):

75 years

Catalyst:

Iridium Oxide based MMO

Substrate

Composition:

Titanium Grade 1

Electrical Resistivity:

0.000056 ohm-cm

Tensile Strength:

Min. 245 MPa

Yield Strength:

Min. 175 Mpa

Elongation:

Min. 24 %

Anode Types and Current Ratings

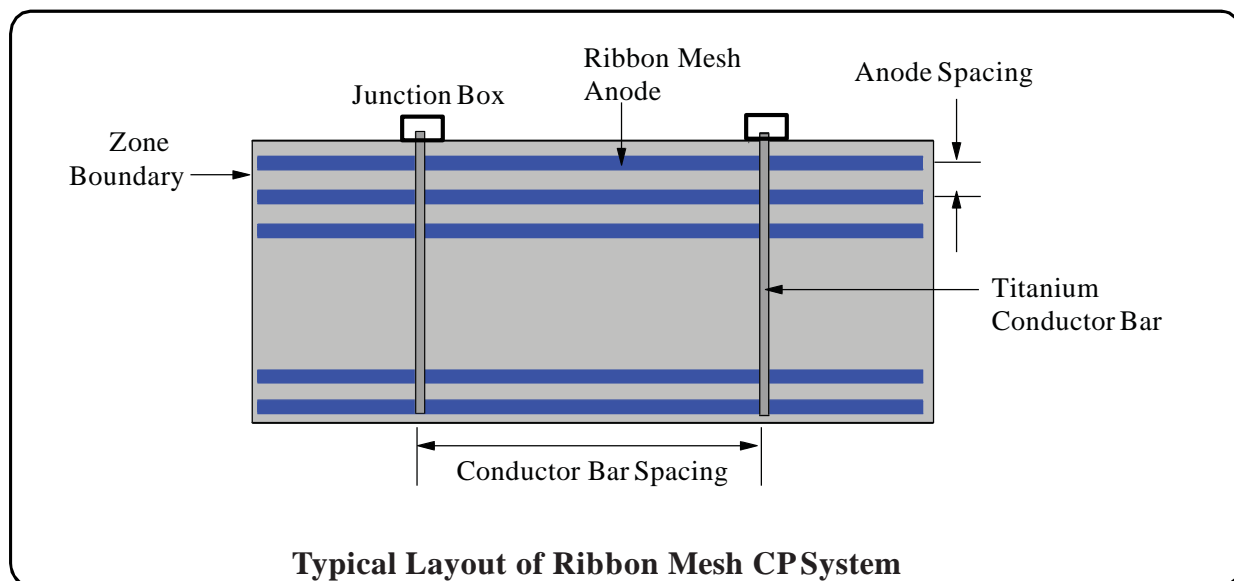
Anode Type	Type 85	Type 100	Type 150	Type 170	Type 200	Type 250
Width (mm)	10	12.7	19.0	20	25	30
Max. Current Output (mA/m) at 110 mA/m ²	2.8	3.5	5.3	5.6	7.1	8.3
Max. Current Output (mA/m) at 220 mA/m ²	5.6	7.0	10.6	11.2	14.2	16.6

Betelguard Titanium Ribbon Mesh Anode



Physical and Electrochemical Parameters

Anode Type	Type 85	Type 100	Type 150	Type 170	Type 200	Type 250
Width (mm)	10	12.7	19.0	20	25	30
Expanded Thickness (mm)	1.30	1.30	1.30	1.30	1.30	1.30
Anode Surface Area (perm)	0.025	0.03	0.048	0.043	0.064	0.075
Diamond Dimensions (mm)	2.5x4.6x0.6	2.5x4.6x0.6	2.5x4.6x0.6	2.5x4.6x0.6	2.5x4.6x0.6	2.5x4.6x0.6
Resistance per meter (Lengthwise)	0.49	0.39	0.26	0.25	0.19	0.16



Typical Rebar Current Density Requirements related to chloride concentration at rebar depth

Chloride Level at Rebar Depth	No Corrosion < 0.03%	Low 0.03% - 0.1%	Mild 0.1% - 0.3%	High > 0.3%
Rebar Current Density (mA/m ²)	5	10 to 15	15 to 20	20 to 30