

STARGARD™ DISCRETE MESH ANODE 30mm

The STARGARD™ Discrete Mesh Anode 30mm compliments our existing ELGARD™ and LIDA® anode product line for the cathodic protection of reinforced concrete structures. It is composed of a precious metal oxide catalyst on an expanded titanium mesh substrate. The STARGARD™ Discrete Anode is available in 100 mm, 150 mm, 200 mm, 300 mm, 350 mm and 400 mm lengths that can be combined to meet specific requirements.

MATERIAL SPECIFICATIONS

DIMENSIONS

Anode Diameter	30 mm (1.18 in)
Installation Hole Diameter	32 mm (1.26 in)
Lengths	Variable – See Anode Performance
Expanded Mesh Thickness	0.635 mm (0.025 in)
Diamond Dimensions	2.5 mm x 4.6 mm (.1 in x .18 in)
Strand Width	0.76 mm (.030 in)

SUBSTRATE

Composition	Titanium, Grade 1 per ASTM B265
Coefficient of thermal expansion	$8.7 \times 10^{-5}/^{\circ}\text{K}$ (0.000048/in/in/ $^{\circ}\text{K}$)
Thermal conductivity at 20°C	15.6 W/m ² - $^{\circ}\text{K}$ (9.0 BTU/hr/ft ² / $^{\circ}\text{F}$ /ft)
Electrical resistivity	0.000056 ohm-cm (0.00022 ohm-in)
Modulus of elasticity	105 Gpa (14,900,000 PSI) minimum
Tensile strength	240 Mpa minimum
Yield strength	138 Mpa (20,000 PSI) minimum
Elongation	24% minimum

CURRENT DISTRIBUTOR - Rod

Diameter	2.4 mm (0.094 in)
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ANODE PERFORMANCE

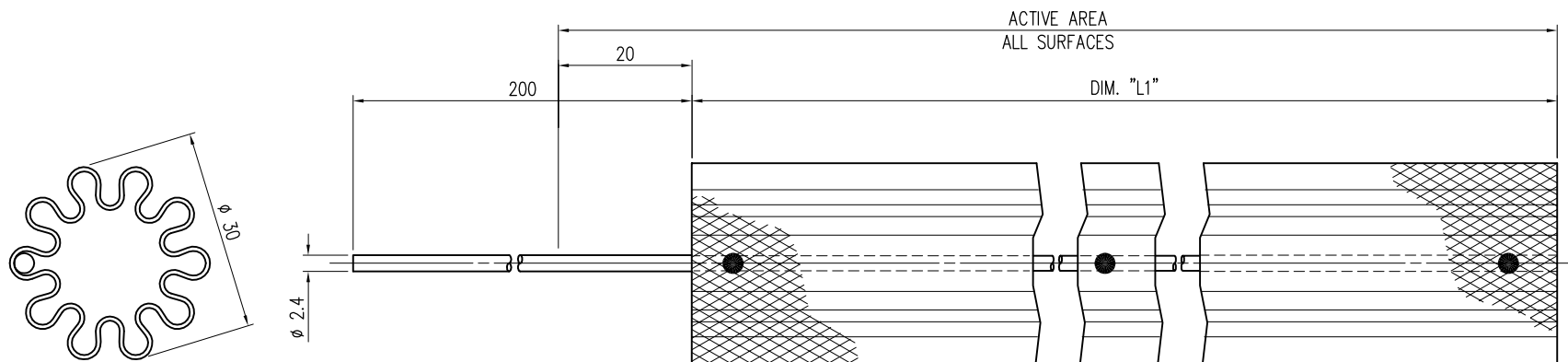
Maximum Current Density (CD) @ Anode	220 mA/m ² (20.4 mA/ft ²)						
Mesh Length, "L", mm (ft)	100 (.328)	150 (.492)	200 (.656)	250 (.820)	300 (.984)	350 (1.148)	400 (1.312)
Anode Surface Area, m ² (ft ²)	.032 (.342)	.048 (.514)	.064 (.685)	.080 (.856)	.095 (1.027)	.111 (1.199)	.127 (1.370)
Current Rating @ Max CD, mA	7.00	10.50	14.00	17.50	21.00	24.50	28.00
Expected Life	50 years						
Anode Coating	Iridium Oxide, Mixed Metal Oxide						

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DIM. "L" = 600mm THRU 100mm (INCREMENTS OF 50mm)

ELGARD™ STARGARD MESH ANODE