

ITEM 582.99 16 - EMBEDMENT OF GALVANIC ANODES IN CONCRETE

DESCRIPTION:

The work shall consist of installing galvanic anodes and testing for electrical conductivity at locations indicated on the plans or as directed by the Engineer.

MATERIALS:

A. Embedded galvanic anodes shall be compact, pre-manufactured, and consist of electrolytic High Grade Zinc in compliance with ASTM B 418 - Type 1 or Type II, cast around a pair of steel tie wires and encased in a highly alkaline cementitious shell.

The anode shall be an approved product as noted in the table below or an approved equal:

Product Name	Manufacturer	Payment Factor
Sentinel-GL ¹	Euclid Chemical Company	0.5
Galvashield XP Compact ¹	Vector Corrosion Technologies, Inc	0.5
Galvashield XP	Vector Corrosion Technologies, Inc	1.0
MasterProtect 8065CP	BASF Construction Chemicals, LLC – Building Systems	1.0
FerroGard 650	Sika Corp	1.0

^{1.} Product requires approximately double the quantity of other products due to lower zinc content.

B. Reinforcement steel tie wire shall be 1.3mm wire gauge or heavier, meeting the requirements of ASTM A 1064.

C. Electrical sealant shall be as specified by the anode manufacturer.

CONSTRUCTION DETAILS:

The type of anode shall be as specified in the contract documents.

The Contractor shall embed Galvanic Anodes in concrete where indicated in the contract documents or where directed by the Engineer.

Installation methods shall be as specified by the anode manufacturer and shall be approved by the DCES.

ITEM 582.99 16 - EMBEDMENT OF GALVANIC ANODES IN CONCRETE

METHOD OF MEASUREMENT:

This work will be measured by the actual number of galvanic anodes installed in accordance with the contract documents multiplied by the payment factor shown in the Approved List table in the Materials section above.

BASIS OF PAYMENT:

The unit price bid per galvanic anode shall include the cost of all material, equipment, and labor necessary to install, connect, test the anode, and electrically seal the splices and/or connections,. Payment for concrete removal, steel reinforcement repair/replacement, and concrete replacement will be paid for under their respective items as shown in the contract documents.