

Technical Data Sheet

RollAnode

Zinc sacrificial anodes for corrosion control of steel in concrete



Description

The **RollAnode** consists of a rolled zinc sheet, with or without an ion-conductive adhesive layer. During installation, the anode is embedded in an ion-conductive, self-moistening paste that helps maintain activation of the zinc throughout the service life of the anode.

This paste, **Zinc Anode Activation Paste (ZAP)**, is supplied separately in 600 ml sausages and can be applied using standard manual or battery-powered sealant guns.

These anodes are typically used in areas with active corrosion or an elevated corrosion risk. They provide a significant reduction in corrosion activity and help prevent the initiation of new corrosion sites.

Typical examples of applications

- in combination with concrete patch repair
- bridge decks, beam supports, and columns
- zones of newly cast concrete adhering to existing structures
- balcony facings and concrete façades
- concrete slabs

Applications

These sacrificial zinc anodes are specifically designed for installation in pre-drilled holes and are suitable for concrete rehabilitation, patch repairs and newly cast precast concrete elements. They are embedded in an ion-conductive, self-moistening paste for the cathodic protection or prevention of reinforced concrete structures.



Service life and design

The service life of the anodes is directly related to the following variables: total zinc weight per unity surface area, steel surface area (steel density), presence and availability of oxidizing agents (O_2 and H_2O) to maintain the cathodic reactions on the steel structure, and the anode's capacity.

Thanks to the simplicity and quickness of the installation, application costs can be reduced to a minimum.

The electrochemical potential difference between the zinc anode and the steel reinforcement provides the driving force for galvanic protection and contributes to extending the service life of the reinforced concrete structure.

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ROLLANODE

POSSIBLE LENGTH	50 - 900 MM
POSSIBLE DIAMETERS	15 MM – 50 MM
WEIGHT	50 - 1500 G
STOCK CONDITIONS	< 25OC < 50% RH
STORAGE LIFE	6 TO 60 MONTHS, DEPENDING ON THE TYPE
TARRIFF NR.	7905 00 00

CP Design

In line with other CP systems, a CP system based on RollAnodes should be designed by qualified and certified specialists and installed by qualified and experienced contractors. Refer to the international standard **ISO12696** "Cathodic protection of steel in concrete". For further recommendations refer to the General Description and Installation Guidelines.

Any cable connection of the **RollAnodes** should be designed by qualified specialists and can be tailor-made for the client.

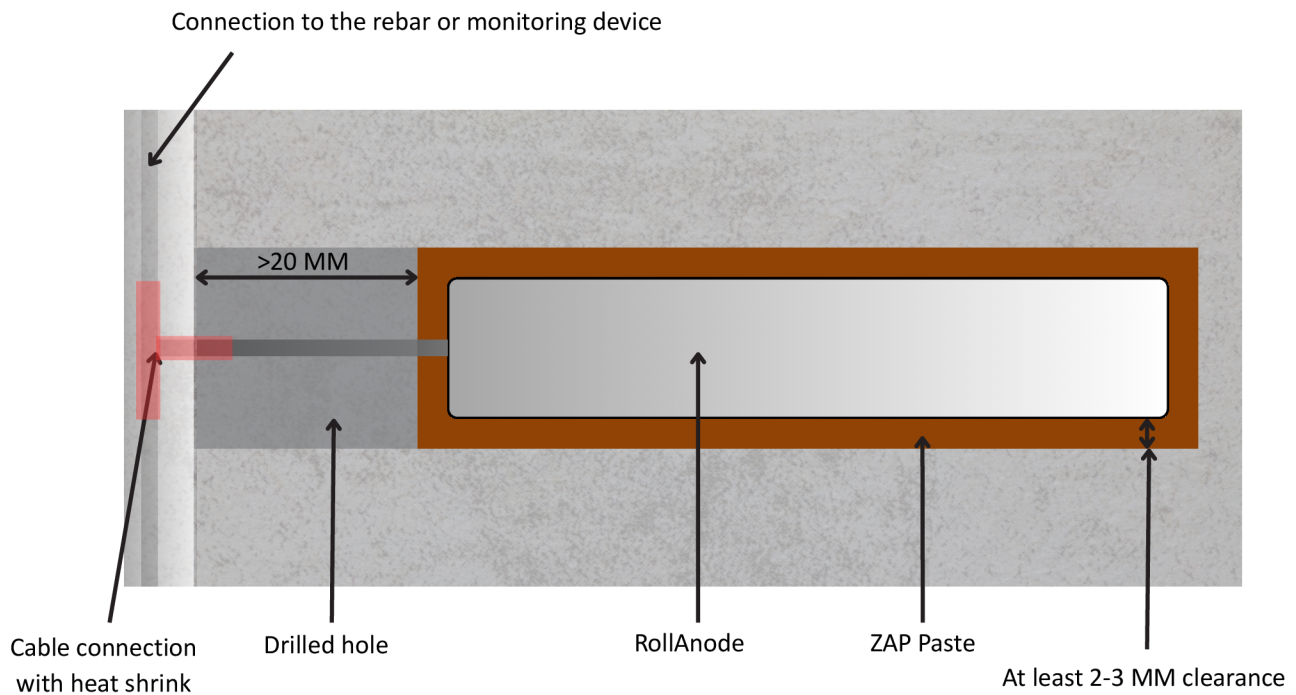


Performance characteristics

Depolarization of Reinforcing Steel according to the international standard **EN/ISO12696** "Cathodic protection of steel in concrete".

The **RollAnodes** may show some self-corrosion over time by discoloration or white deposit. Because of the purity of the zinc this is completely normal and does not affect the performance.

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All technical data stated in this Technical Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. The information, and, in particular, the recommendations relating to the application and end-use of CorrPRE's products, are given in good faith based on CorrPRE's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with CorrPRE's recommendations.

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Revision Nr.: 04

Revision date: 20-06-2025

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