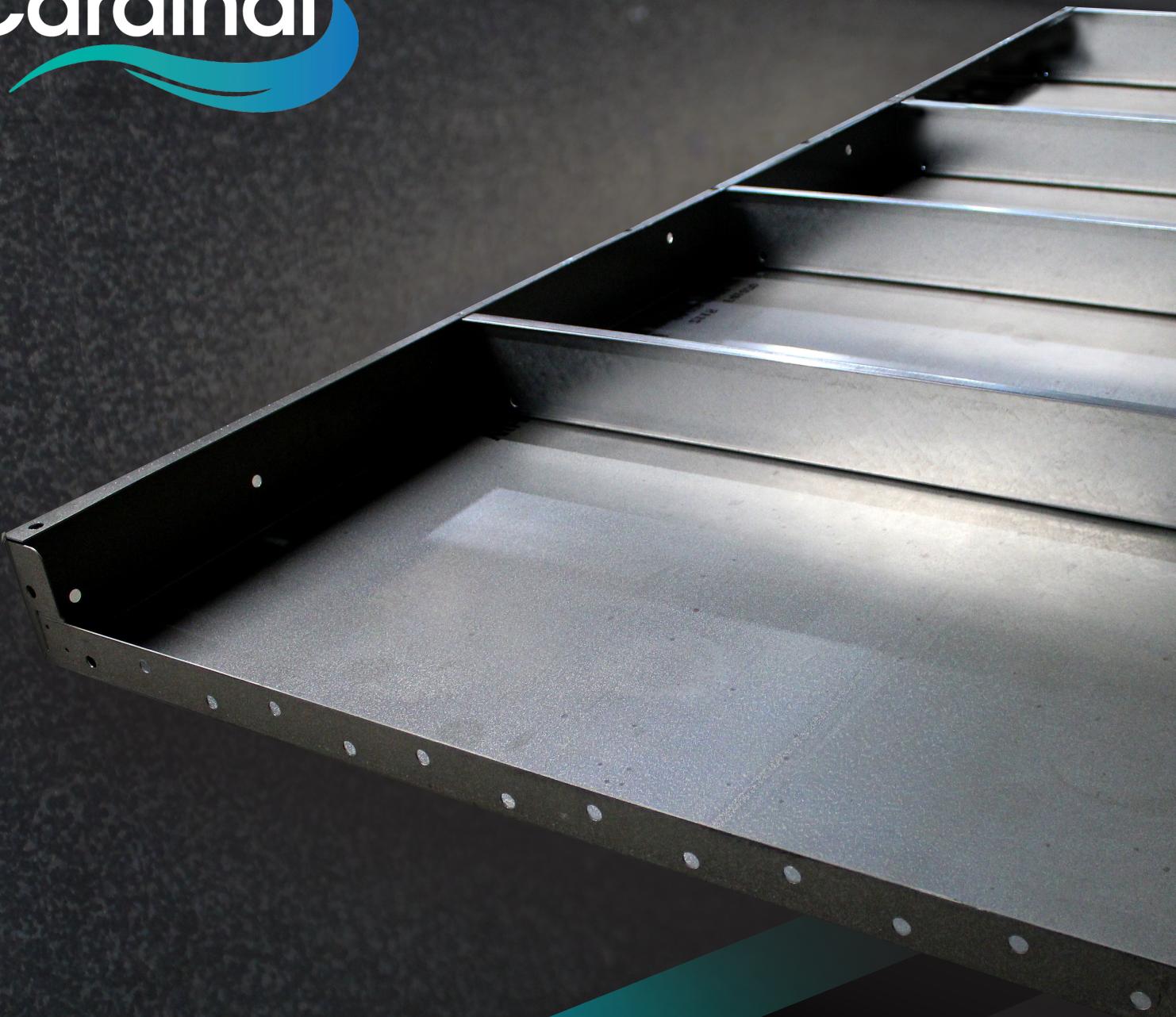


Cardinal



ZAM
CORROSION RESISTANT
Steel Pool Walls

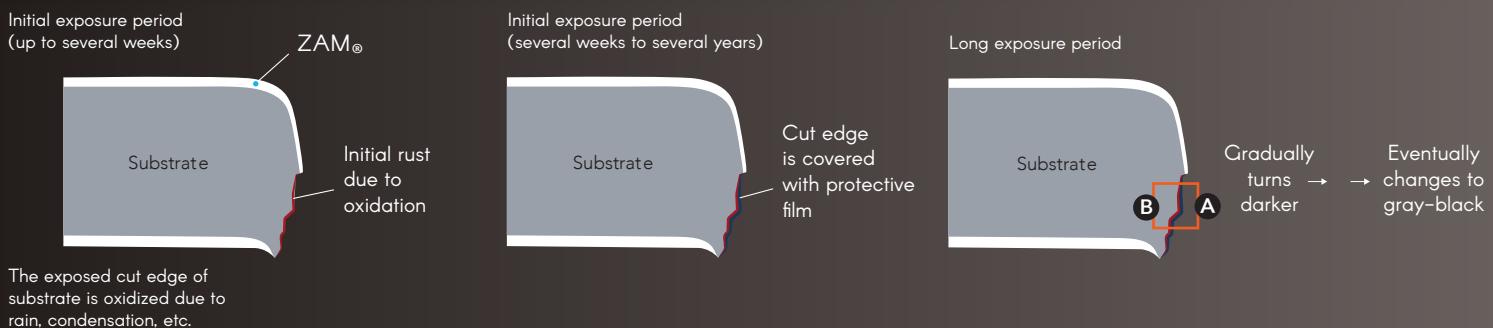
WHAT IS ZAM®?



Cardinal is proud to offer ZAM®—the most effective non-corrosive coating for steel panels & steps in the industry. ZAM® is a hot-dip coated steel sheet that has a layer of **Zinc, 6% Aluminum, and 2% Magnesium**. The effects of magnesium and aluminum together allow our ZAM® coated steps to have excellent corrosion resistance, scratch resistance, and formability.

Mechanism of corrosion resistance on cut edge

Corrosion resistance is achieved on cut edge parts by covering the ends with a zinc-based protective film that contains Al and Mg from the coating layer.



HOW DOES IT WORK?

Mechanism of corrosion resistance on flat section

Protective surface film

The fine zinc-based protective film containing Mg covers the cut edge as the Zn, Al, and Mg transfers out from the coating layer.

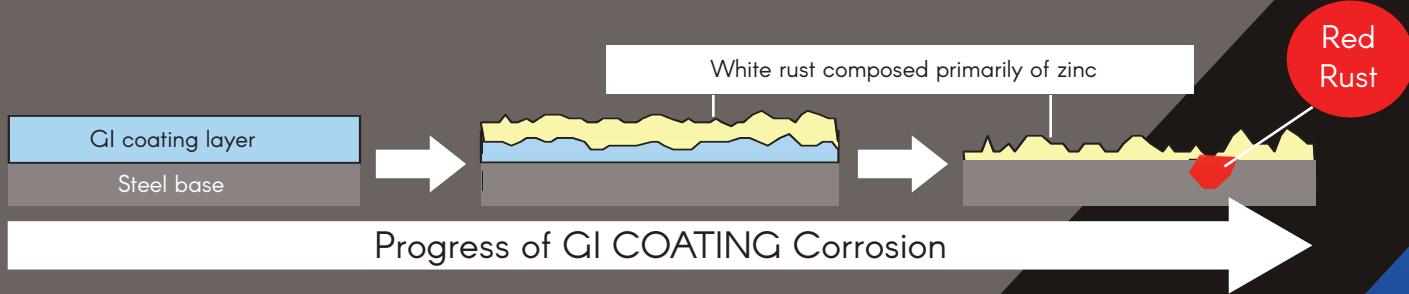
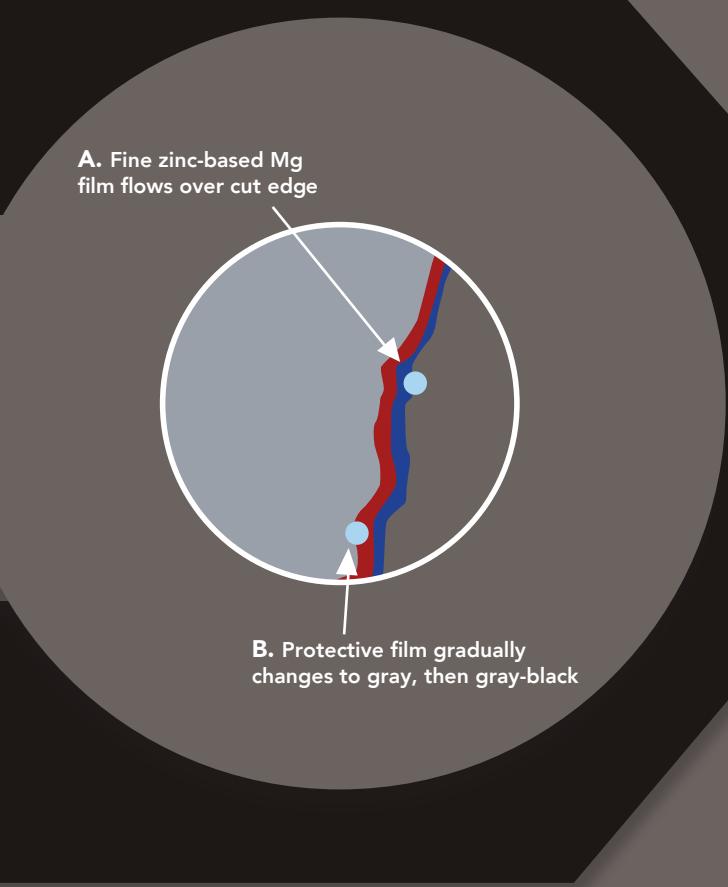
ZAM® coating layer

Progress of ZAM® Corrosion

Al and Mg in the coating layer of ZAM® combine to form a fine, **tightly adhered** zinc-based protective film on its surface as time passes. This protective film suppresses corrosion of the ZAM® coating.

WHY IS IT IMPORTANT?

ZAM_® offers superior protection against corrosion on Salt Generator Pools, **up to 5x's more effective than standard galvanization**. It also offers increased protection when servicing areas with a high water table or acidic ground conditions.



Customization of steps is still achievable, as the steel can be bent and formed without the coating cracking on the edges. **Cardinal ZAM_®-coated steel is covered by a lifetime, 1-time transferable warranty.**



Superior to other like products

ZAM's unique chemical composition of Zn, Al and Mg combines to form a firm coating layer. This unique coating develops thin film byproducts unlike that of competitors, that are remarkably corrosion resistant—even over cut edges.



Eco-friendly

ZAM's corrosion resistance will allow customers to significantly reduce coating thickness which benefits the environment. Specifically, reducing coating thickness effectively decreases the amount of minerals mined from the earth, reduces harmful runoff dispersed into the soil, and reduces coating residue at steel recycling plants.



Protection on cut edges

When the ZAM_® coating layer corrodes in the rain, Zn and Mg flow over the cut edge. These elements form a fine zinc-based protective film that helps ensure a long product life even against harsh elements.

SEEING IS BELIEVING

Superior Corrosion Resistance of ZAM®

TIME	100h	1000h	5,000h
ZAM®			
55% Al-Zn Alloy coated steel			
Zn-5% Al Alloy coated steel			
Galvanized steel			

* Appearances of cut edge sections after salt spray test
(Thickness 0.126", coating weight 0.40/0.40 oz/ft² , no chem treat)

* ZAM® produced to ASTM A1046 specifications

FOR MORE ON



Please contact your Cardinal Representative or Customer Service.

250 Route 61 S, Schuylkill Haven, PA 17972 | 570-385-4733 |
customerservice@cardinalsystemsinc.com | cardinalpools.com

CARD-ZAMBROCH22 © 2026 Cardinal Systems, Inc.



Cardinal
Systems, Inc.