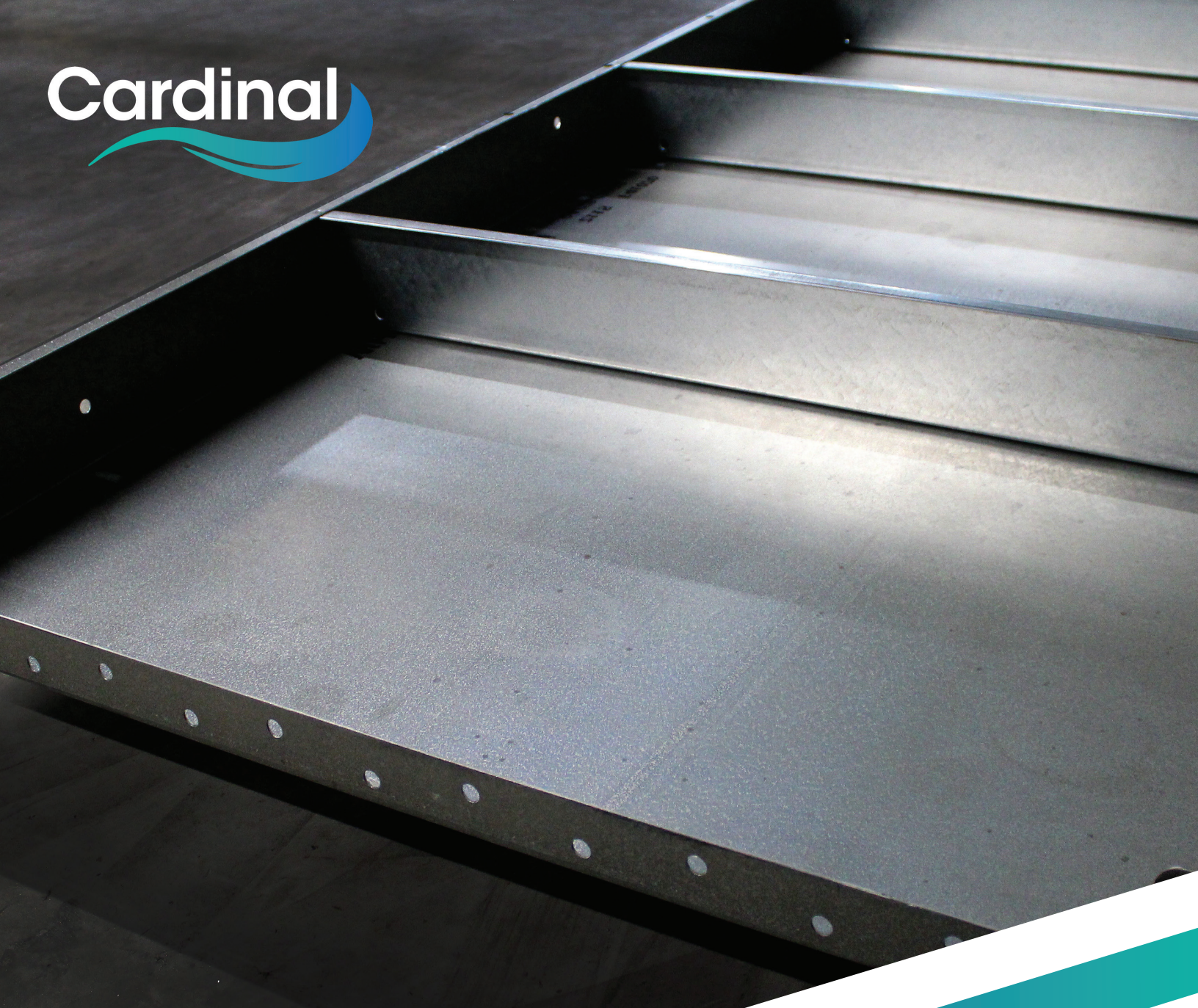




Cardinal



ZAM®

CORROSION RESISTANT

Steel Pool Walls

WHAT? IS ZAM®?

Cardinal is proud to offer ZAM® 115– the most effective non-corrosive coating for steel panels 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 steel panels to have excellent corrosion resistance, scratch resistance, and formability.



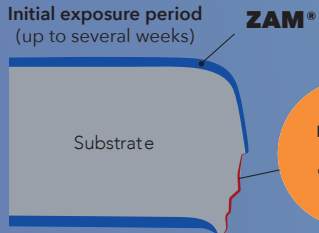
Galvanized
18
Months



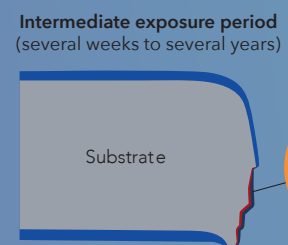
ZAM®
28
Months

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.

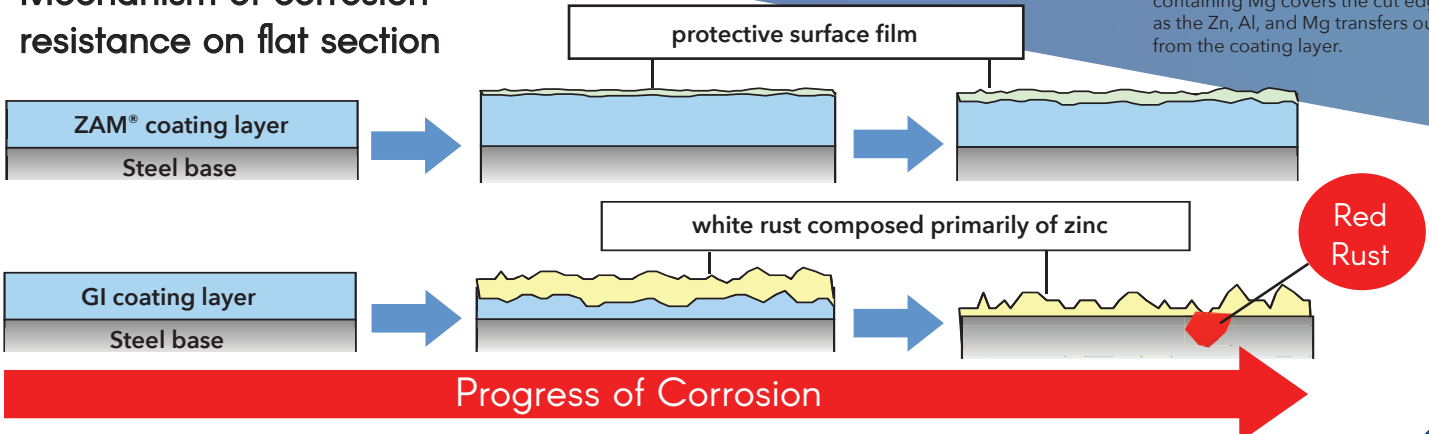


The exposed cut edge of substrate is oxidized due to rain, condensation, etc



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

Mechanism of corrosion resistance on flat section



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.

HOW? DOES IT WORK?

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 walls is still achievable, as sheet steel can be bent 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

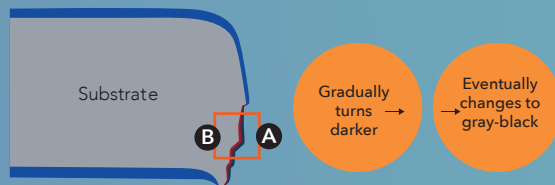
ZAM®'s corrosion resistance will allow customers to significantly reduce coating thickness which benefits the environment. Specifically, reducing coating thickness effectively decreases the amount of minerals mined from the earth, reduces harmful runoff dispersed into the soil, and reduces coating residue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



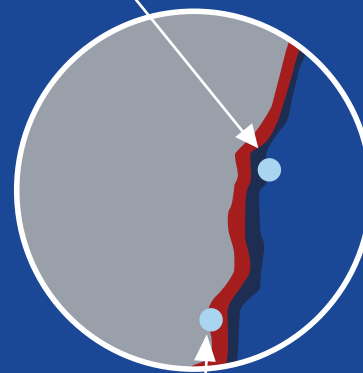
Protection on cut edges

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.

Long Exposure Period



A. Fine zinc-based Mg film flows over cut edge



B. Protective film gradually changes to gray, then gray-black

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
ZAM®

Please contact your Cardinal Representative or Customer Service.



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