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## EMPOWERING STRUCTURE



## How Does Sacrificial Protection Work?

Sacrificial protection or often it refers as galvanic corrosion is provided by an active metal protecting a less active metal. In any environment that exposes to water and oxygen, the more active metal corrodes in prior to protect the less active metal from corroding. In our is the less active metal as compared to zinc whereby aluminium is the least active metal as compared to zinc and steel.

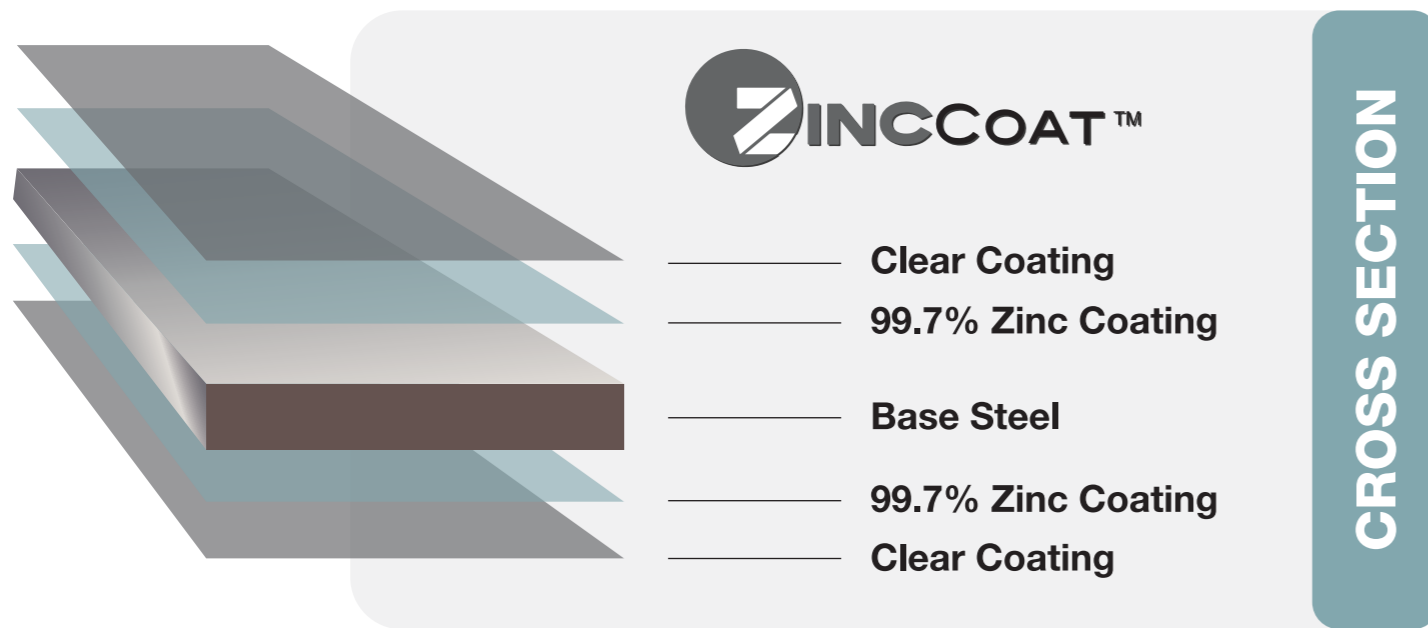
Zinc coated steel provides corrosion protection in 2 ways:

- i) While the coating is intact, it prevents corrosion by sealing off the steel surface from corrosive environments.
- ii) If the zinc coating is accidentally scratched or breached so as to expose the steel, the surrounding zinc then acts as a sacrificial and anode 'heals the wound' by corroding itself instead of the steel, thus delaying the rusting of the steel sheet.

Aluminium coated steel does not act as the sacrificial anode to protect the base steel due to its lower reactivity than steel.



## HEALS THE WOUND



**ZincCoat** steel is manufactured with the high-end modern technology. This technology has long evolved from the conventional general hot dip galvanizing process of which the coated steel is used for general structural applications. Today, **ZincCoat** steel is engineered to be versatile, durable, lightweight and flexible that allows forming into many building products such as lightweight steel trusses, door and window frame, air conditioned ducting and pre-engineered components.

## How Does It Perform?

**ZincCoat** steel provides good corrosion resistant that protects the base carbon metal and the cut edges. With the coating position that comprises of 99.7% zinc, **ZincCoat** has excellent sacrificial protection capability whereby it prolongs the product life of the finished building products. The higher density of protective coating found in the 99.7% zinc-rich composition make **ZincCoat** steel effective against corrosion.

## Materials Specification for ZincCoat

Specifications	G300	G550
<b>Thickness (mm)</b>	0.30 - 1.20	0.30 - 1.20
<b>Width (mm)</b>	1219	1219
<b>Yield Strength (mpa)</b>	min 300	min 550
<b>Tensile Strength (mpa)</b>	min 320	min 570
<b>Finishing</b>	Minimised Spangled	
<b>Coating Wt (g/m<sup>2</sup>)</b>	Z070-Z180	
<b>Standards</b>	MS 2660:2020	

## Benefits of ZincCoat Steel

- High density of zinc coating composition that provides prolonged product life.
- Guaranteed material strength in accordance to manufacturing standards.
- Higher compatibility rating of steel in contact with other different metal elements, wood or wet concrete, without requiring of heavy additive measures to be taken to prevent de-lamination.
- Minimal spangle surfacing provides better finishing for prepainted colour steel.
- Easy access to product supply.
- Certified and tested by SIRIM