

SOUTH ATLANTIC

R E I N F O R C I N G



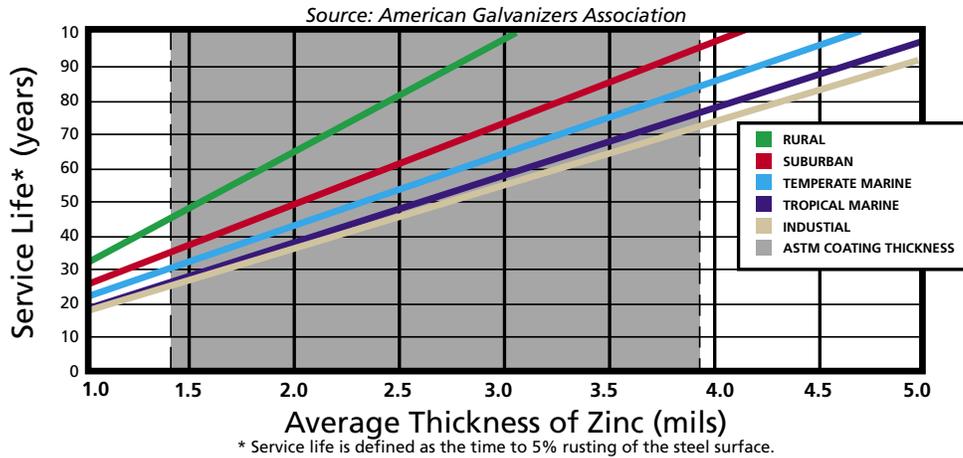
AIR-WIPED GALVANIZED REBAR



WHY CHOOSE GALVANIZED REINFORCING BAR?

- **LONGER LIFE**
Hot-dip galvanized steel resists corrosion in numerous environments extremely well. It is not uncommon for galvanized steel to last more than 70 years under certain conditions.* (See the *Service-Life Chart* on right).
- **SELF HEALING**
The unique chemistry of zinc galvanizing actually reacts in the presence of water to create rust-resistance at the point of any surface damage.
- **STRONGER THAN STEEL**
The galvanizing process creates alloy layers on the surface that are actually harder than many base steels.*
- **MINIMIZES RETOUCHING ON THE JOB SITE**
Saves time and troubles involved with patching gaps, job site damage, and imperfections that occur in other types of rust-proofing.
- **SUPERIOR BOND STRENGTH**
In studies conducted by the University of California in accordance with American Concrete Institute, galvanized reinforcing bar showed superior bond strength compared to both black and epoxy-coated rebar.* (See the *Bond Strength Chart* on next page.)
- **COST EFFECTIVE**
When compared with paint systems, hot-dip galvanizing has comparable initial application costs and, almost always, lower life-cycle costs. In fact, the lower life-cycle costs of a hot-dip galvanized project make galvanizing the smart choice for today and tomorrow.*

HOW LONG WILL GALVANIZED COATINGS LAST?



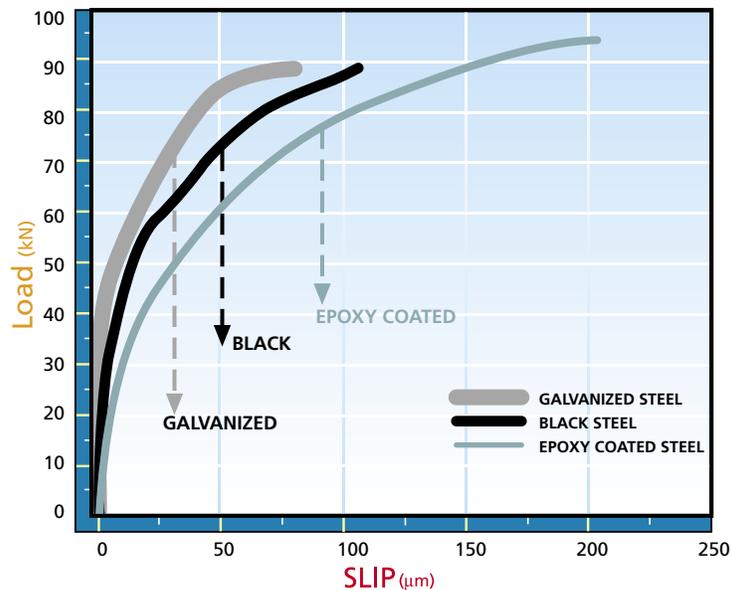
The Service Life Chart (SLC) was developed based on decades of corrosion rate data collected from galvanized steel samples exposed to the five defined environments in cities all over the world, and a corrosion prediction model based on statistical methods and neural network technology.

The data points of the SLC are based on macroscopic environmental data and, thus, may vary from the actual corrosion rate observed due to site-specific environmental conditions.

Atmospheric levels of relative humidity, sulfur dioxide, airborne salinity, precipitation, and temperature influence actual corrosion rates in a specific geographic location.

Parameters such as wind direction, frequency drying, alloying composition, and surface orientation may also affect corrosion rates, but because of their variable and usually minor nature, are not included in the SLC model.

HOW WELL DOES GALVANIZED REBAR HOLD?



Studies have shown that the bond between galvanized steel and concrete is as good or better than black steel in concrete. Source: American Galvanizers Association.

WHY CHOOSE SOUTH ATLANTIC AIR-WIPED REINFORCING BAR?

- **MORE WORKABLE**

Air-wiped rebar is unsurpassed in workability. It can be cold worked with minimal cracking and flaking, allowing fabrication after galvanizing.



- **SAVES TIME AND MISTAKES**

Bars can be tagged and put in master bundles right in your shop. This means no more mixed or lost material needing days of sorting after job galvanizing. You can provide fast turn around on rush orders, and quote jobs with confidence knowing your true standard cost per foot.

- **USER FRIENDLY**

Eliminates work site delay thanks to the superior finish of our exclusive Air-wiping process, our reinforcing bars don't arrive stuck together in their bundles.



- **SAFER**

South Atlantic's Air-wiped bar can be handled without the danger of razor-sharp spikes that ordinary drip processed bar may display.



- **DURABLE**

Air-wiped rebar is a highly durable hot-dip galvanized rebar that is unsurpassed in smoothness, stands up to rough handling.



- **MEETS ALL SPECIFICATIONS**

All stock South Atlantic rebar is grade 60. Mill and galvanizing certifications are available on request. The coating conforms to A767. Common sizes are in stock for immediate delivery.



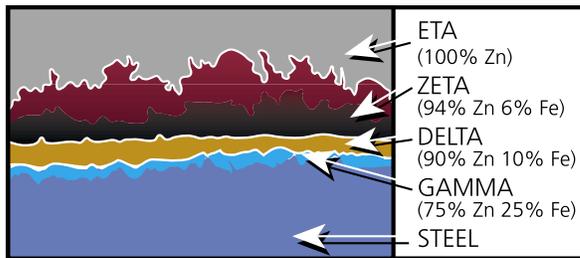
SOUTH ATLANTIC IS THE ONLY GALVANIZER THAT SUPPLIES **AIR-WIPED** REINFORCING BAR.

WHAT IS AIR-WIPING ?



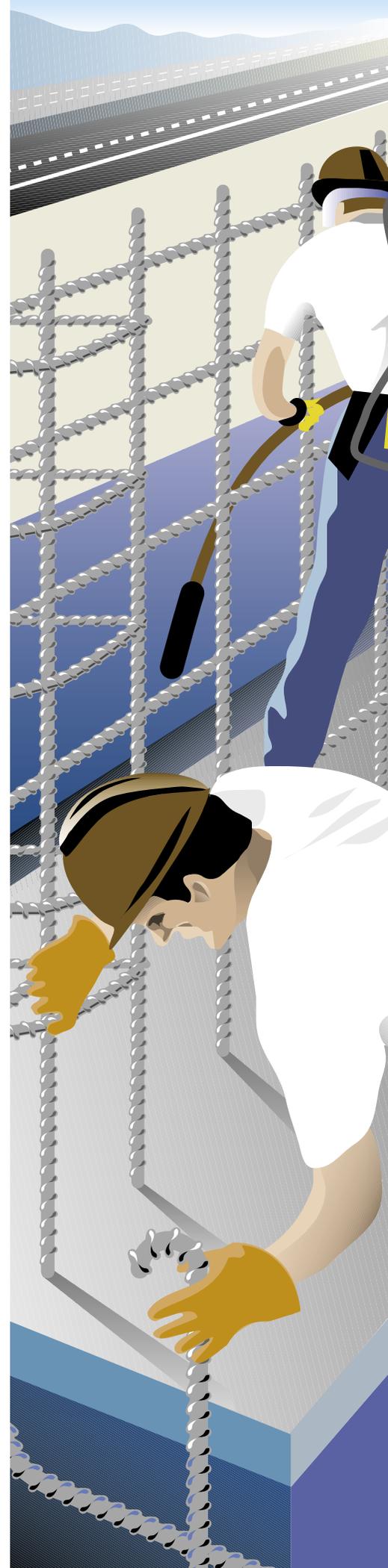
South Atlantic developed the Air-wiping process over thirty years ago to meet the exacting requirements of the nuclear power industry. Air-wiping involves a proprietary finishing process that creates a durable, more ductile hot-dip galvanized coating. Over the past three decades, South Atlantic's Air-wiped products have become recognized for their high quality throughout North America. No other supplier offers Air-wiped galvanized reinforcing bar.

WHAT IS HOT-DIP GALVANIZING?



1. After preparation, reinforcing steel is immersed in an 850° bath of molten zinc.
2. Iron-zinc alloy layers are created when the temperature causes the zinc to react with the steel.
3. South Atlantic's unique Air-wiping process creates a protective finish of unsurpassed durability and smoothness, allowing for better handling and workability.
4. If the underlying steel core of the bar should become exposed due to damage or rework, any moisture that might come into contact with the damaged spot acts as an electrolyte, producing a local galvanic element that protects the area from corrosion.

The adherence, durability, and galvanic properties of galvanized coating makes it superior to other protective coating systems.





South Atlantic Galvanizing, LLC is a growing company, building on forty years experience in the galvanizing industry.

We are the only galvanizer that supplies Air-wiped reinforcing bar. Our unique process creates a highly consistent, uniform galvanized coating. The resulting product can be readily fabricated.

All our products undergo thorough inspections at each phase. As a result, every job we galvanize and every steel product we produce meets the same high standards.

Our customers, across North America and internationally, have given South Atlantic a reputation for superior quality and customer satisfaction.

Visit these other South Atlantic companies on the web.



SOUTH ATLANTIC STEEL PRODUCTS

(800) 782-3972
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Chattanooga, TN
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