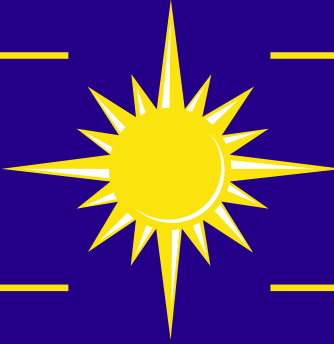


SOUTH



ATLANTIC

REINFORCING

**True Hot Dipped
Galvanized Rebar**

southatlanticllc.com/reinforcing

True Hot Dipped Galvanized Rebar

Other specifications you may encounter on rebar include ASTM A123 and ASTM 1094, both of which our Type 2 coating conforms with. Your contract drawings may impose additional requirements or dictate specific handling of the bars, so please give us a call and we will be happy to review them with you.

Galvanized material is 100% UV stable and can be stored outside with no damage from exposure to the sun or weather. It does not need to be covered. It is suggested that bar be stored off the ground on wood dunnage, and that normal precautions be taken against handling damage to avoid snagging and bending individual bars..

South Atlantic's proprietary Airwiped rebar meets or exceeds ASTM A1094 requirements for bending and fabricating rebar after galvanizing without cracking.

Galvanized rebar can be installed in the same manner as uncoated reinforcing. No special handling equipment is required. Because it is UV stable and highly damage resistant there are no real limits as to how far in advance of a pour it can be put in place nor is there a need for elaborate placing schemes to minimize damage to already installed bars. Galvanized tie wire or plastic clips should be used when assembling or installing galvanized bar, and bar supports should also be galvanized steel, plastic or some other inert material such as masonry. If mechanical couplers are being used, they should be galvanized as well.

South Atlantic Reinforcing can provide either A767 compliant bar with Type 1 or Type 2 coatings. We use our proprietary **Airwipe** method to produce Type 2 hot dip galvanized reinforcing bar that can be cut and bent **after** galvanizing without chipping or flaking. The coating, which also meets the heaviest ISO and Canadian specifications requirement, is uniform over the length of each bar. There are no rough edges or dangerous sharp drips to jam equipment or cause injury. Bars are easy to touch up for shop or field cut ends. Standard sizes and lengths are in stock for quick shipment. (Mill bundles only - See back cover.) Special mill cut lengths may be available by arrangement. South Atlantic offers very competitive pricing



GALVANIZED BAR IN STOCK

Bar Size	Length	Pieces/Bundle	Weight/Bundle	Galvanized lb/Foot	Galvanized lb/Bar
#3	20	270	2152	0.3985	7.97
#4	20	152	2153	0.708	14.16
#5	20	96	2123	1.1055	22.11
#6	20	72	2293	1.5925	31.85
#7	20	68	2947	2.166	147.29
#3	40	364	5802	0.3985	15.94
#4	40	205	5806	0.708	28.32
#5	40	131	5793	1.1055	44.22
#6	40	91	5795	1.5925	63.7
#7	40	68	5887	2.166	86.64

Call for Stock and Delivery on Larger Bar Sizes Shown Below

#8	40	56	6280	2.8	112.14
#9	40	44	6283	3.57	142.8
#10	40	36	6506	4.52	180.72
#11	40	28	6248	5.58	223.14
#14	40	19	6105	8.03	321.29
#18	40	11	6283	14.28	571.19

GALVANIZED WIRE MESH

Spacing	Wire Gauge	Gal wt/8x20	Pieces Packaged	Weight
#6x6	10x10	35.62	50	1781
#6x6	8x8	50.88	50	2544
#6x6	6x6	71.23	50	3562
#4x4	4x4	144.16	25	3604

Hot Dipped Galvanized Rebar: Case Studies

Hot Dipped Galvanized Rebar to Make This Bridge Last a Century

The Mario M. Cuomo (Tappan Zee) Bridge was the largest bridge project in New York state history, and one of the largest design-build projects in the US. The twin span cable stayed bridge is over 3 miles long and was built to have a 100-year design life. The bridge construction included the following:



- Nearly 6,000 precast panels, each 12 feet long and between 22 and 45 feet wide on the approaches reinforced with hot-dip galvanized rebar
- 134 12-foot girder assemblies reinforced with hot-dip galvanized rebar
- 973 panels in the main span reinforced with hot-dip galvanized rebar
- 68 300-ton pile caps reinforced with hot-dip galvanized rebar

In total, the project used more than 59,000 tons of hot dipped galvanized rebar, including material supplied by South Atlantic Reinforcing.

Route 66 Bridge Deck, Pennsylvania, USA – 30 Years and Counting

The refurbishment of a Route 66 bridge deck south of Kittanning, PA, provided a unique opportunity to assess the performance of galvanized rebar after more than 30 years of service. The bridge was built in 1973 using galvanized rebar in the deck. The bridge deck remains in excellent condition but the Pennsylvania DOT wanted to replace the post and beam medial barrier with a more secure concrete Jersey barrier. This required removing the entire middle section of the deck and exposing the galvanized rebar for inspection. Test found the chloride content in the concrete surrounding the rebar to be 5 lbs/yd³, far exceeding the chloride threshold for corrosion of black rebar.



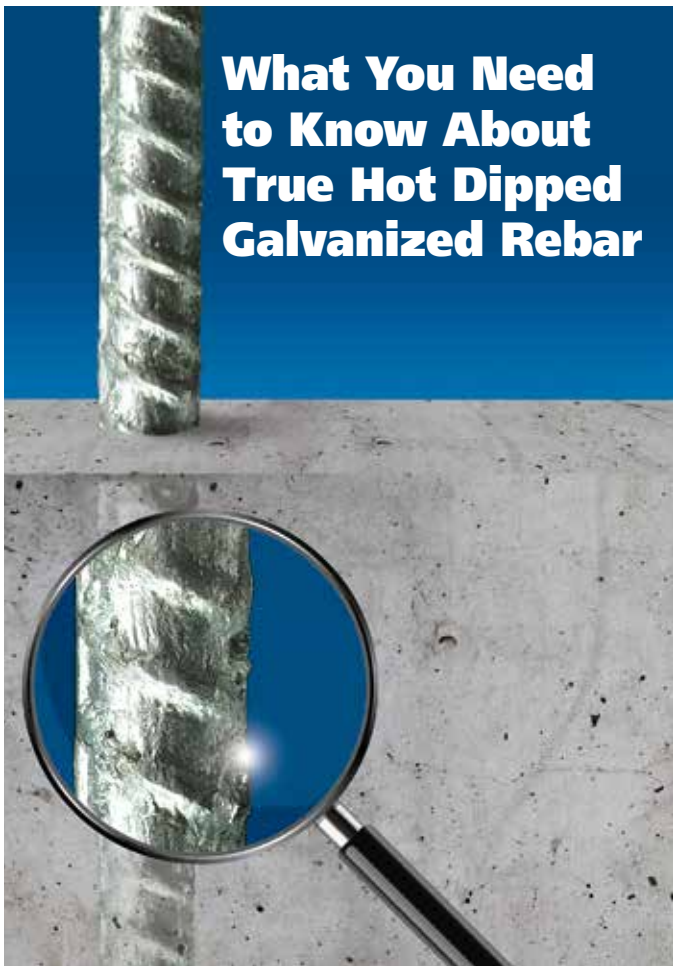
Inspection of the rebar showed that coating was in excellent condition with coating thicknesses still exceeding ASTM A767 specification for new galvanized rebar. Also noted during concrete removal was the tenacious bond of the galvanized rebar to the surrounding concrete, thereby confirming the excellent bond strength obtained from galvanized coatings. No refurbishment of the concrete deck was required; the original rebar remained in place when the Jersey barrier was poured.

Comparison of Current Specified Coating Weights for Rebar				
	Nomenclature	UM	mils	oz/sq.ft.
A767	Class 1	140	5.5	3.5
	Class 2	85	3.35	2
A123	Grade85	85	3.35	2
	Grade100	100	3.94	2.3
ISO14657		85	3.35	2
	Class B	42	1.7	1.0
	Class C	20	.9	.46
		87	3.37	2.05

Member:



What You Need to Know About True Hot Dipped Galvanized Rebar



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For more information on South Atlantic Reinforcing scan the QR Code or contact us at P.O. Box 138, 3025 Steel Way Drive, Buckner Industrial Park, Graham, NC 27253 USA
(866) 801-3262



Buy America Act

All material sold by South Atlantic is produced in US mills. We stock both grade A615 (grade 60) and Grade A706 material, and copies of original mill certifications are provided. By prior agreement, South Atlantic can also provide other domestic grades as well as import material.

Standards

When galvanized reinforcing is called for, the job specifications will usually require that the galvanizing conform to an ASTM galvanizing standard - most often ASTM A767, which is a traditional bath applied HDG coating with some post galvanizing requirements specific to the rebar product. Within this standard there are two Types of coating listed. Type 1 is a very heavy coating requiring 5.9 mills of alloy, while Type 2 is a more traditional HDG coating with a 3.4 mil requirement. South Atlantic can provide both type 1 and type 2 coatings..

(See chart on flap.)

Type 1 or Type 2 coating?

For Type 2 bars, South Atlantic uses proprietary handling equipment to move bars through the HDG bath that results in a controlled and evenly distributed alloy coating that can be cut and bent without flaking. This coating is a traditional HDG alloy similar in weight to what is required on structural steel. Aside from the convenience of not sending bars out, fabrication after galvanizing also eliminates the need for the larger bend diameters required for material being galvanized after fabrication.

Industries Served

Bridge and Highway / Transportation

For decades, we have supported every facet of the transportation industry by going the extra mile with our zinc-coated rebar products that are designed to withstand even the harshest conditions. Our portfolio includes extensive work on bridges, guardrails, transportation hubs, road signage, railroads and other infrastructures. Even more importantly, the durability of our galvanized rebar and other products means they are designed to withstand extensive stress, ensuring your structure will stand the test of time.

Building and Architecture

The strength of our industrial hot-dip galvanized/ hdg steel has been a hallmark of the building industry, providing unequalled support and protection. Our corrosion-resistant reinforcing products have been used in offices, apartment complexes, sports centers and framing. We also protect façade pieces, handrails and canopies to withstand the elements.

Minimum Order

South Atlantic packages its reinforcing bar and welded mats in standard bundles and we cannot accommodate requests for partial bundles. All material is sold FOB our plant unless other arrangements are made. If requested, we can obtain quotes from outside trucking companies and provide prepay-and-add service for your order. South Atlantic gladly accepts less-than-truckload orders (full bundles only) but does not consolidate or provide a delivery service.

SOUTH ATLANTIC

South Atlantic is a growing company, building on over 50 years experience in the galvanizing industry.

All our products undergo thorough inspections at each phase. As a result, every job we galvanize and every steel product we produce meet the same high standards. Our customers, across North America and internationally, have given South Atlantic a reputation for superior quality and customer satisfaction.