

Reinforcing Steel (Uncoated and Epoxy Coated Bars)

ABC Coating Company Tulsa
OK -

Tulsa OK

Fabricator & Epoxy Coater

Ambassador Steel

Bourbonnais IL

Fabricator & Epoxy Coater

Kansas City MO

Fabricator

Mooresville IN

Fabricator

Newton IA

Fabricator

St. Louis MO

Fabricator

American Highway

Kankakee IL

Fabricator & Epoxy Coater

Carter Waters Construction Mtls.

Kansas City MO

Fabricator

Cascade Steel Rolling Mills, Inc.

McMinnville OR

Producer

Cherokee Steel Fabricators,
LLC.

Muskogee OK

Fabricator

CMC Coatings

Waxahachie TX

Fabricator & Epoxy Coater

CMC Const. Services

Springdale AR

Fabricator

Reinforcing Steel (Uncoated and Epoxy Coated Bars)

CMC Rebar

Birmingham AL	Fabricator
Collierville TN	Fabricator
Dallas TX	Fabricator
Farmersville TX	Fabricator
Gastonia NC	Fabricator & Epoxy Coater
Kankakee IL	Fabricator & Epoxy Coater
Kansas City MO	Fabricator & Epoxy Coater
Knoxville TN	Fabricator & Epoxy Coater
Melissa TX	Fabricator
Muskogee OK	Fabricator & Epoxy Coater
Nashville-Sidco TN	Fabricator
Nashville-Visco TN	Fabricator
Oklahoma City OK	Fabricator
Polo MO	Fabricator
Waxahachie TX	Fabricator

CMC Steel Arizona

Mesa AZ	Producer
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CMC Steel Arkansas

Magnolia AR	Producer
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CMC Steel Florida

Jacksonville FL	Producer
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CMC Steel New Jersey

Sayreville NJ	Producer & Epoxy Coater
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CMC Steel Oklahoma

Durant OK	Producer
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CMC Steel South Carolina

Cayce SC	Producer
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CMC Steel Tennessee

Knoxville TN	Producer
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Reinforcing Steel (Uncoated and Epoxy Coated Bars)

CMC Steel Texas

Seguin TX

Producer & Fabricator

Crimson Steel Supply, LLC

Muskogee OK

Fabricator

Tulsa OK

Fabricator

Darragh Company

Benton AR

Fabricator

Hot Springs AR

Fabricator

Lowell AR

Fabricator

EAL Manufacturing

Dallas TX

Epoxy Coater

FABco, LLC

Denver CO

Epoxy Coater

Grand Prairie TX

Fabricator

Gerdau AmeriSteel

Charlotte NC

Producer & Fabricator

Midlothian TX

Producer

Great Plains Rebar, LLC

Oklahoma City OK

Fabricator

Tulsa OK

Fabricator

Green Steel Manufacturing

Madison MS

Fabricator & Epoxy Coater

Harris Rebar Jackson LLC.

Flowood MS

Fabricator

Harris Rebar Nufab, LLC

Longview TX

Fabricator

Milton FL

Fabricator

Riverside AL

Fabricator

Liberty Steel and Wire

Peoria IL

Producer

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Lulich Steel Corporation

Slidell LA

Fabricator

Magnolia Steel Company, Inc.

Meridian MS

Fabricator

Mid-American Steel

Madill OK

Producer

Midwest Pipe & Rebar Coating

Schereville IN

Fabricator & Epoxy Coater

Nucor Bar Mill Group - Nucor
Steel

Birmingham AL

Producer

Jackson MS

Producer

Jewett TX

Producer

Kankakee IL

Producer

Marion OH

Producer

Nucor Steel - Kingman, AZ

Kingman AZ

Producer

Nucor Steel - Utah

Plymouth UT

Producer

Nucor Steel Sedalia, LLC.

Sedalia MO

Producer

Optimus Steel, LLC -
Beaumont, TX

Vidor TX

Producer

Ozark Rebar, LLC.

Greenbrier AR

Fabricator

Re-Steel Express Services, Inc.

Poplarville MS

Fabricator

Rocky Mountain Steel Mills (A
Division of EVRAZ)

Pueblo CO

Producer

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Saber Steel, LLC.

Millington TN

Fabricator

Simcote, Inc.

Marion OH

Fabricator & Epoxy Coater

Sedalia MO

Fabricator & Epoxy Coater

St. Paul MN

Fabricator & Epoxy Coater

Sioux City Foundry Co.

Sioux City IA

Fabricator & Epoxy Coater

Southeastern Reinforcing, Inc.

Jackson TN

Fabricator

Southern States Steel Co.

Beaumont TX

Fabricator

Steel Dynamics, Inc.

Columbia City IN

Producer

Steel Specialties of Mississippi

Pearl MS

Fabricator

Steelcorp, Inc.

Miamitown OH

Fabricator

Note: Section 804 – Reinforcing Steel For Structures - requires bar reinforcement for concrete in sizes up to and including #18 (No. 57) to conform to the requirements of AASHTO M31 or M322 Type A.

Method of Documentation of Acceptance:

The following procedure defines a means whereby the Producer, Fabricator, or Epoxy Coater may certify the identity of uncoated and coated reinforcing steel and attest to its quality. This procedure shall be applicable only to reinforcing steel meeting the requirements of AASHTO M31 or M322, Grade 40 and 60. Further, it outlines methods to provide quality control of reinforcing steel to assure that only material meeting the contract specifications is shipped to and used on Arkansas Department of Transportation (ARDOT) projects.

All iron and steel material used on Department projects must be in compliance with the "Buy America" requirements and the Department's "Standard Specifications for Highway

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Construction", Subsection 106.01. This means all manufacturing processes of iron and steel in a product (i.e., smelting/remelting and any subsequent process which alters the steel material's physical form or shape or changes its chemical composition) must occur within the United States to be considered of domestic origin. This includes processes such as rolling, extruding, machining, bending, grinding, drilling and applying coatings. The use of pig iron or processed, pelletized and reduced iron ore manufactured outside of the United States is permitted in the domestic manufacturing process for steel and/or iron materials. All steel and iron mill test reports must include a certified statement that all manufacturing processes for the iron or steel product occurred in the United States. Each supplier/fabricator of an intermediate product will also certify that the product complies with the "Buy America" requirements.

Method of Approval:

Those listed must agree to the requirements for certification as listed in the following pages. Failure to follow the certification agreement and/or failing results of tests of random samples will be cause for removal from this QPL.

PRODUCER PROCEDURES

- All Producers of reinforcing steel shall participate in AASHTO Product Evaluation & Audit Solutions (formerly National Transportation Products Evaluation Program (NTPEP) Audit Program) for Reinforcing Steel and shall have successfully met the requirements of the Program audit. This Program requires an annual audit by AASHTO or its representatives that will determine whether the producing mill has the capabilities to consistently meet the specification (AASHTO/ASTM) requirements for the bar product produced. AASHTO will publish a list showing which mills have successfully met the requirements of the audit. Information concerning the Program is available through the AASHTO web site, <https://transportation.org/product-evaluation-and-audit-solutions/>.
- All Certified Mill Test Reports (CMTR) for reinforcing steel covered by this procedure shall be maintained by the Producer for a minimum of three years from the date of shipping.
- Quantities of each heat and bar size shall be recorded by the Producer on the CMTR's and on the shipping papers of reinforcing steel. These documents shall be sent directly to Department projects, Fabricators, Epoxy Coaters, and other intermediate users of reinforcing steel.
- For ARDOT projects, the Producer shall agree to the following:
 - Supply reinforcing steel only from stock identifiable by mill heat number
 - Accurately record the heat numbers shipped (by grade and bar size)
 - Certify that all ARDOT and applicable AASHTO specifications are met

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- Provide this information to the ARDOT on each project shipment.

- The Producer shall furnish a Certificate of Delivery with each shipment to an ARDOT project. The Certificate of Delivery shall include, but may not be limited to:
 - ARDOT Job Number
 - Consignee,
 - Applicable material specification (AASHTO M 31 or M 322),
 - Grade
 - Heat numbers
 - Sizes & Quantities
 - Producer & Location
 - Certifying statement

The certifying statement shall read as follows: I certify that the material was supplied from the heat numbers listed, complies with ARDOT and applicable AASHTO specifications. Certified Mill Test Reports for each of the above heat numbers are on file. This material complies with "Buy America" requirements.

The Certificate of Delivery shall be signed by an authorized official of the Producer. One copy shall accompany the shipment.

FABRICATOR PROCEDURES

- The Fabricator shall use reinforcing steel bars from a Department approved Producer.

- The Fabricator shall furnish a Certificate of Delivery with each shipment to an ARDOT project. Information on the Certificate of Delivery shall include, but not be limited to:
 - ARDOT Job Number
 - Consignee,
 - Applicable material specification (AASHTO M 31 or M 322),
 - Grade
 - Heat numbers
 - Sizes & Quantities
 - Producer & Location
 - Certifying statement

The certifying statement shall read as follows: I certify that the reinforcing steel is from a Department approved Producer, complies with ARDOT and applicable

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AASHTO specifications, and was fabricated in accordance with ARDOT plans and specifications or approved bar lists. This material complies with "Buy America" requirements.

The Certificate of Delivery shall be signed by an authorized official of the Fabricator. One copy shall accompany the shipment.

EPOXY COATER PROCEDURES

• The Epoxy Coater shall use reinforcing steel bars from a Department approved Producer and Fabricator. The reinforcing steel bars shall be coated according to ASTM A775 using a coating material that meets the requirements of Annex A1 of ASTM A775 and has been approved by the Department. Patching material, compatible with coating material, inert in concrete, and meeting the requirements of Annex A2 of ASTM A775, shall be provided by the epoxy coating manufacturer with each shipment. Epoxy Coaters shall be Concrete Reinforcement Steel Institute (CRSI) certified. A copy of the CRSI certification shall be on file with the Department. All materials used, preparation of the bars, coating, and curing of the bars shall be according to current Department specifications and no bar's coating shall contain more than six (6) holidays per yard.

• The Epoxy Coater shall furnish a Certificate of Delivery with each shipment to an ARDOT project. Information on the Certificate of Delivery shall include, but not be limited to:

- ARDOT job number
- Consignee
- Applicable material specification (AASHTO M 31 or M 322)
- Grade
- Heat numbers
- Sizes & Quantities
- Producer & Location
- Epoxy Coater & Location
- Certifying statement
- Specific results of test of coating thickness and flexibility

The certifying statement shall read as follows: I certify that the reinforcing steel is from a Department approved Producer and Fabricator, complies with ARDOT and applicable AASHTO specifications, and was epoxy coated and fabricated in accordance with ARDOT plans and specifications or approved bar lists. This material complies with "Buy America" requirements.

The Certificate of Delivery shall be signed by an authorized official of the Epoxy Coater. One copy shall accompany the shipment.

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- The Epoxy Coater shall supply to the consignee a written certification for the coating material that properly identifies the following:
 - Batch number(s) used in the order
 - Manufacturer and Brand
 - Quantity represented
 - Date of manufacture
 - Name and address of the manufacturer
 - A statement that the supplied coating material meets the requirements of Annex A1 of ASTM A775.

CERTIFICATION PROCEDURE


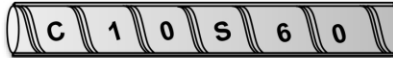
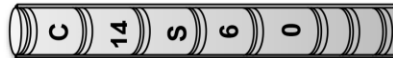











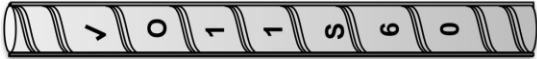

- A representative of the Materials Division may elect to review the plant facilities, its operation and the requirements of this procedure.
- The Department may take random samples of reinforcing steel for testing purposes. Samples shall be (2) 48 inch specimens. Additional samples may be taken at any time by the Department. Material may also be randomly sampled at the project site or designated project storage facility by ARDOT personnel. Testing shall be performed by the Materials Division in accordance with AASHTO, ARDOT, ASTM, or other applicable specifications.
- If failing results occur when testing the reinforcing steel, the Producer may be suspended from supplying materials of that grade from that mill to ARDOT projects, approved Fabricators, and approved Epoxy Coaters, pending a review with the mill and results of all tests.
- If the failing tests are failures of fabrication process or the epoxy coating process the Fabricator or the Epoxy Coater may be suspended from supplying materials to ARDOT projects pending a review.
- Material represented by failing test results shall not be used on ARDOT projects and shall be removed from the location for steel supplied under this procedure.
- The Department will review the Producer's, Fabricator's, or the Epoxy Coater's records to verify that these procedures are being followed and that the appropriate information is on file. Copies of CMTR's shall be furnished upon request.
- Material furnished to a manufacturer of precast concrete products will have a Certificate of Delivery and certifying statement on file with the precast manufacturer.

The producer, fabricator, and epoxy coater of privately labeled products must be disclosed.

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Reinforcing Steel (Uncoated and Epoxy Coated Bars)

List of Reinforcing Bar Identification Markings

<p>Cascade Steel Rolling Mills, Inc. McMinnville, OR</p>  <p style="text-align: center; font-size: small;">Bar sizes #3 through #9</p>  <p style="text-align: center; font-size: small;">Bar sizes #10 and #11</p>  <p style="text-align: center; font-size: small;">Bar sizes #14 and #18</p>	<p>CMC Steel South Carolina Cayce, SC</p>  <p style="text-align: center; font-size: small;">Bar sizes #3 through #11</p>  <p style="text-align: center; font-size: small;">Bar sizes #14 and #18</p>
<p>CMC Steel Arizona Mesa, AZ</p> 	<p>CMC Steel Tennessee (formerly Gerdau Knoxville) Knoxville, TN</p> 
<p>CMC Steel Arkansas Magnolia, AR</p> 	<p>CMC Steel Texas Seguin, TX</p>  <p style="text-align: center; font-size: small;">Bar sizes #3 through #11</p>  <p style="text-align: center; font-size: small;">Bar sizes #14 and #18</p>
<p>CMC Steel Florida (formerly Gerdau Jacksonville) Jacksonville, FL</p> 	<p>Gerdau Ameristeel Charlotte, NC</p>  <p style="text-align: center; font-size: small;">Bar sizes #4 through #8</p>
<p>CMC Steel New Jersey Sayreville, NJ</p> 	<p>Gerdau Ameristeel Midlothian, TX</p> 
<p>CMC Steel Oklahoma Durant, OK</p> 	<p>Mid-American Steel Madill, OK</p> 

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List of Reinforcing Bar Identification Markings

<p>Mid-American Steel Madill, OK</p> 	<p>Nucor Steel Kingman, AZ</p> 
<p>Nucor Bar Mill Group - Nucor Steel Birmingham, AL</p> 	<p>Nucor Steel Plymouth, UT</p>  <p style="text-align: center; font-size: small;">Bar sizes #3 through #11</p>
<p>Nucor Bar Mill Group - Nucor Steel Jackson, MS</p> 	 <p style="text-align: center; font-size: small;">Bar sizes #14 and #18</p>
<p>Nucor Bar Mill Group - Nucor Steel Jewett, TX</p>  <p style="text-align: center; font-size: small;">Bar sizes #3 through #9</p>  <p style="text-align: center; font-size: small;">Bar sizes #10 and #11</p>	<p>Nucor Steel Sedalia, LLC Sedalia, MO</p> 
<p>Nucor Bar Mill Group - Nucor Steel Kankakee, IL</p> 	<p>Optimus Steel, LLC <i>(formerly Gerdau Beaumont)</i> Vidor, TX</p> 
<p>Nucor Bar Mill Group - Nucor Steel Marion, OH</p>  <p style="text-align: center; font-size: small;">Bar sizes #3 through #6 Imperial</p>  <p style="text-align: center; font-size: small;">Bar sizes #7 and #9 Imperial</p>  <p style="text-align: center; font-size: small;">Bar sizes #10 through #14 Imperial</p>	<p>Rocky Mountain Steel Mills (A Division of EVRAZ) Pueblo, CO</p>  <p style="text-align: center; font-size: small;">Bar sizes #3 through #5</p>  <p style="text-align: center; font-size: small;">Bar sizes #6 and #7</p>
<p>Steel Dynamics, Inc. Columbia City, IN</p>   	

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Identification of Reinforcement Bar Markings

The specifications for billet steel, axle steel, and rail steel reinforcement bars (AASHTO M 31M, M 42M, and M 53M/ ASTM A 615M, A 616M, and A 617M, respectively) require identification marks to be rolled into the surface of one side of the bar to denote the producer's mill designation, bar size, type of steel, and, for Grade 420 (Grade 60), a grade mark indicating yield strength. Grade 300 (Grade 40) bars show only three marks (no grade mark) usually in the following order:

Bar Markings

English Bar Size	Metric Equivalent Bar Size	Nominal Area inch ²	Nominal Weight lb/ft	Nominal Diameter inch
#3	#10	0.11	0.376	0.375
#4	#13	0.20	0.668	0.500
#5	#16	0.31	1.043	0.625
#6	#19	0.44	1.502	0.75
#7	#22	0.6	2.044	0.875
#8	#25	0.79	2.67	1.0
#9	#29	1.00	3.40	1.128
#10	#32	1.27	4.303	1.27
#11	#36	1.56	5.313	1.41
#14	#43	2.25	7.65	1.693
#18	#57	4	13.6	2.257

Steel Type	
N	Billet
A	Axle
S	Billet (meeting supplementary bend requirements)
IR	Rail
W	Weldable steel ASTM A-706

Note: May show "S" and "W" if bar is produced to meet both ASTM A615 & A706.

Grade 420 (Grade 60) bars must also show a minimum yield designation grade mark of either the number "4"("60") or one grade mark line continued for at least five deformation spaces.

A grade mark line is smaller than and between the two main ribs, which are sometimes on the opposite side of the bar. When a numerical grade is used, it is the 4th in order.