IDENTIFICATION GUIDE FOR REINFORCEMENT STEEL & DOWEL BAR PRODUCERS

August 22, 2014

Illinois Department of Transportation

Revision Information Log
Guide for Certified Reinforcement Rebar/Dowel Producers
August 22, 2014

The Guide for Certified Reinforcement Rebar/Dowel Producers is continually reviewed by the Testing & Field Coordinator for adequacy and updated as necessary to reflect the current policies and technology changes. Updates are made to the electronic file as needed and hard copies are uncontrolled. Archive versions are available to examine in the Bureau of Materials and Physical Research.

Revision Date	Description of Change	Authorized By
03/21/08	Date added to guide cover Revision Information Log added P/S# 1060-01 A-706 drawing correction	Ray Rowden
05/16/08	Rocky Mountain Steel P/S# 5652-01 new A-706 bar marking Chaparral Steel P/S# 2338-01 bought by Gerdau AmeriSteel. Plant now called Gerdau AmeriSteel Midlothian P/S# 6024-24	Ray Rowden
05/23/08	Nucor Steel Marion P/S 2394-15 new bar markings	Ray Rowden
02/13/09	New Instructions for Identification of Reinforcement Bars Removed all ASTM A-615 bar markings from the guide Alton Steel P/S# New ASTM A-706 markings Gerdau AmeriSteel Baldwin, FL P/S# 6024-01 new ASTM A-706 markings Gerdau AmeriSteel Charlotte, NC P/S# 6024-02 new ASTM A-706 markings Gerdau AmeriSteel Jackson, TN P/S# 6024-03 new ASTM A-706 markings Gerdau AmeriSteel Knoxville, TN P/S# 6024-04 new ASTM A-706 markings Gerdau AmeriSteel Sayreville, NJ P/S# 6024-05 new ASTM A-706 markings Gerdau AmeriSteel Perth Amboy, NJ P/S# 6024-06 new ASTM A-706 markings Gerdau AmeriSteel St. Paul, MN P/S# 6024-13 new ASTM A-706 markings Gerdau AmeriSteel Wilton, IA P/S# 6024-14 note on ASTM A-706 bar production Gerdau AmeriSteel Vidor, TX P/S# 6024-15 new ASTM A-706 markings	Ray Rowden

Revision Information Log
Guide for Certified Reinforcement Rebar/Dowel Producers
August 22, 2014

02/13/09	Gerdau AmeriSteel Midlothian, TX P/S# 6024-24 new ASTM A-706 markings Gerdau AmeriSteel Sand Springs, OK P/S# 6024-22 new ASTM A-706 markings Nucor Steel Jewett, TX P/S# 2394-02 new ASTM A-706 markings Nucor Steel Auburn, NY P/S# 2394-09 new ASTM A-706 markings	Ray Rowden
06/05/09	Updated manual to meet ISO 9.2 Keystone-Calumet Chicago Heights, IL P/S# 1060-02 new Dowel Bar Producer	Ray Rowden
07/09/10	Gerdau AmeriSteel Perth Amboy, NJ P/S# 6024-06 Removed producer drawings Gerdau AmeriSteel Wilton, IA P/S# 6024-14 Removed producer drawings Gerdau AmeriSteel Sand Springs, OK P/S# 6024-22 Removed producer drawings Rocky Mountain Steel Mills P/S# 5652-01 Plant now called Evraz Rocky Mountain Steel North America Nucor Steel Bourbonnais, IL P/S# 2394-10 edited drawing remarks Nucor Steel Birmingham, AL P/S# 2394-12 edited drawing remarks Nucor Steel Flowood, MS P/S# 2394-13 edited drawing remarks	Ray Rowden
01/14/11	Nucor Steel Marion, OH P/S# 2394-15 new ASTM A-706 markings	Ray Rowden
01/13/12	Nucor Steel Jackson, MS P/S# 2394-13 additional ASTM A-706 markings were added. Nucor Steel Seattle, WA P/S# 2394-14 new Rebar/Dowel Bar Producer Steel Dynamics Pittsboro, IN P/S# 5888-04 Removed producer drawings (Non-Certified)	Ray Rowden
01/27/12	Keystone-Calumet Chicago Heights, IL P/S# 1060-02 Removed Dowel Bar drawing (Non-Certified)	Ray Rowden
07/18/12	Steel Dynamics Pittsboro, IN P/S# 5888-04 added producer drawings (Certified)	Ray Rowden
10/25/13	ArcelorMittal USA East Chicago, IN P/S# 6351-05 added producer drawings (Certified)	Ray Rowden

Revision Information Log
Guide for Certified Reinforcement Rebar/Dowel Producers
August 22, 2014

08/22/14	Mid-America Steel & Wire Madill, OK P/S# 6911-01 added producer drawings (Certified)	Ray Rowden

INSTRUCTIONS FOR IDENTIFICATION OF REINFORCEMENT BAR MARKINGS

The specifications for billet steel, axle steel, and rail steel reinforcement bars (AASHTO M 31, M 322 / ASTM A 615, A 996, as well as A 706) 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, and for Grade 520 (Grade 75), a double grade mark indicating yield strength. Grade 300 (Grade 40) bars show only three marks (no grade mark) usually in the following order:

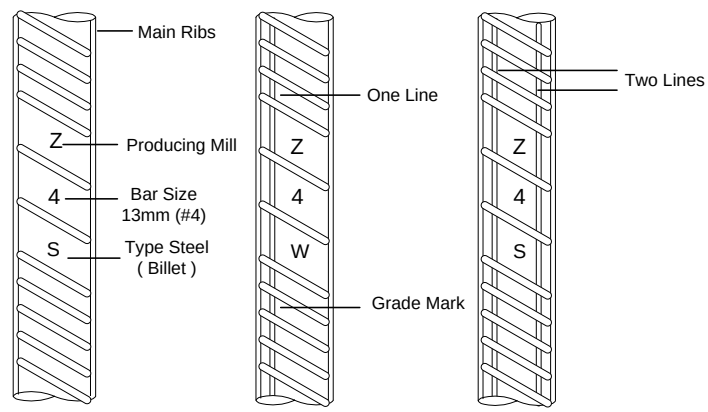
1st — Producing Mill (usually an initial)
2nd — Bar Size Number (10 mm - 36 mm [#3 - #11], 43 mm [#14], and 57 mm [#18])
3rd — Type Steel:

S	for Billet (M 31 / ASTM A-615)	**A**	for Axle (M 322 / ASTM A-966)
W	for weldable steel (ASTM A-706)	⌶ or **R**	for Rail (M 322 / ASTM A-966)

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.

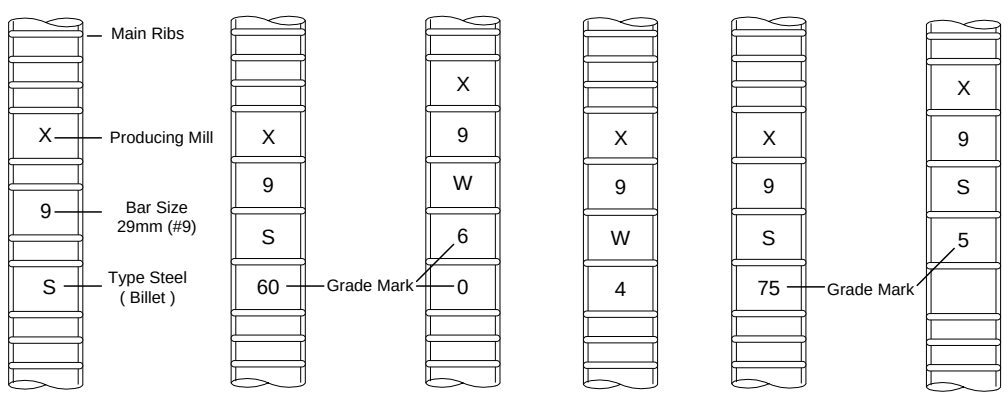
A grade mark line is smaller than and between the two main ribs, which are sometimes on the opposite side of the bar. When a numerical grade is used, it is the 4th in order.

Line System Grade Marks



Grade 300 (Grade 40) Grade 420 (Grade 60) Grade 520 (Grade 75)

Number System Grade Marks



Grade 300 (Grade 40) Grade 60 Grade 420 Grade 75 Grade 520

Certified Reinforcement Bar Producers

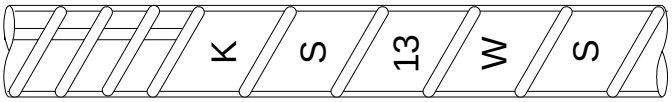
P/S#	P/S Name	City, State	Eff Date	Status

1060-01

1060-01	Keystone Steel & Wire	Peoria, IL	11/16/07	CERT

Bar, Deform Billet Soft Metric

ASTM A-706 Grade 420 (Grade 60) Coiled Steel



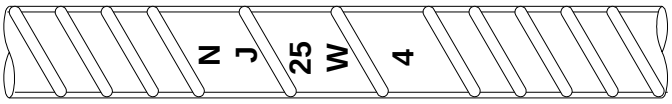
P/S#	P/S Name	City, State	Eff Date	Status

2394-02

2394-02	Nucor Steel	Jewett, Texas	02/13/09	CERT

Bar, Deform Billet Soft Metric

ASTM A-706 Grade 420 (Grade 60).



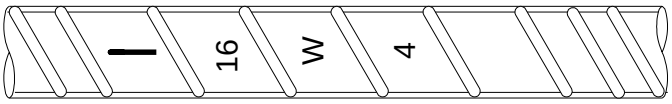
P/S#	P/S Name	City, State	Eff Date	Status

2394-09

2394-09	Nucor Steel	Auburn, NY	02/13/09	CERT

Bar, Deform Billet Soft Metric

ASTM A-706 Grade 420 (Grade 60).



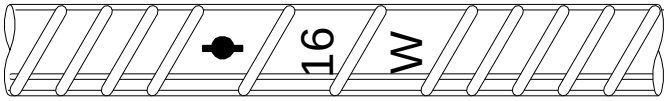
P/S#	P/S Name	City, State	Eff Date	Status

2394-10

2394-10	Nucor Steel	Bourbonnais, IL	07/09/10	CERT

Bar, Deform Billet Soft Metric

Grade ASTM A-706 (Grade 420) weldable reinforcing steel, with a continuous line.



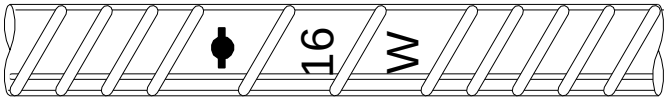
P/S#	P/S Name	City, State	Eff Date	Status

2394-12

2394-12	Nucor Steel Birmingham	Birmingham, AL	07/09/10	CERT

Bar, Deform Billet Soft Metric

Grade ASTM A-706 (Grade 420) weldable reinforcing steel, with a continuous line.



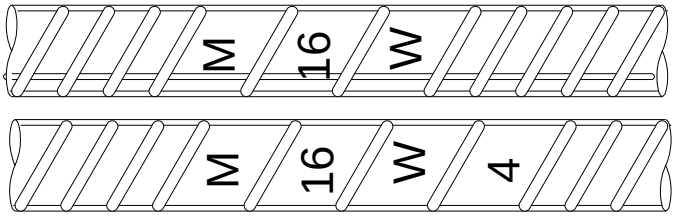
P/S#	P/S Name	City, State	Eff Date	Status

2394-13

2394-13	Nucor Steel Jackson	Jackson, MS	01/13/12	CERT

Bar, Deform Billet Soft Metric

Grade ASTM A-706 (Grade 420) weldable reinforcing steel, with a continuous line.

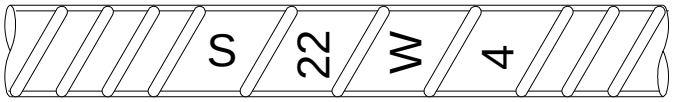


P/S#	P/S Name	City, State	Eff Date	Status

2394-14

2394-14	Nucor Steel Seattle	Seattle, WA	01/13/12	CERT

Bar, Deform Billet Soft Metric



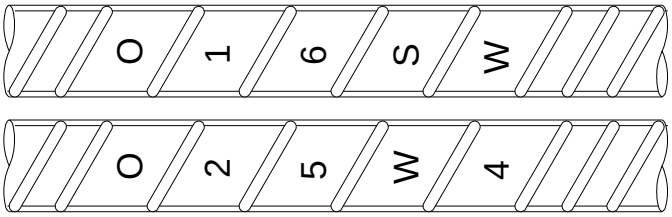
P/S#	P/S Name	City, State	Eff Date	Status

2394-15

2394-15	Nucor Steel Marion	Marion, OH	01/14/11	CERT

Bar, Deform Billet Soft Metric

Nucor Steel Marion, Ohio nerwer markings are an "O" for Ohio. ASTM A-706



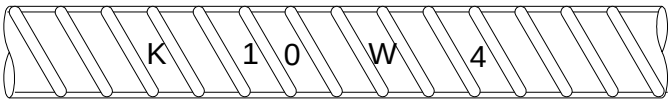
P/S#	P/S Name	City, State	Eff Date	Status

2394-16

2394-16	Nucor Steel Connecticut	Wallingford, CT	04/28/06	CERT

Bar, Deform Billet Soft Metric

ASTM A-706 Grade 420 (Grade 60).



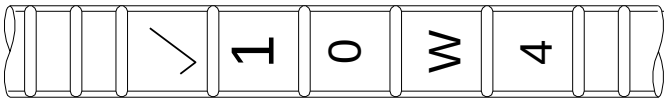
P/S#	P/S Name	City, State	Eff Date	Status

3453-01

3453-01	CMC Steel -Texas	Seguin, TX	03/16/06	CERT

Bar, Deform Billet Soft Metric

Grade ASTM A-706 (Grade 420) weldable reinforcing steel.



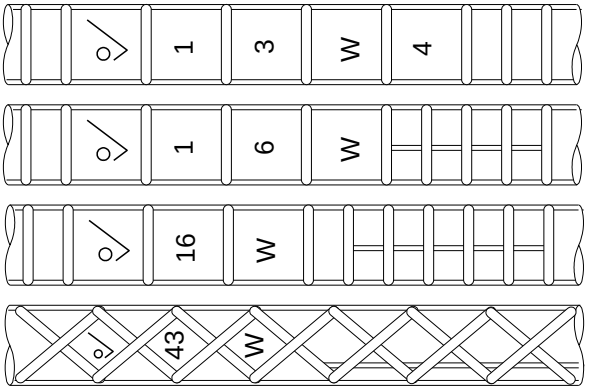
P/S#	P/S Name	City, State	Eff Date	Status

3453-02

3453-02	CMC Steel - South Carolina	West Columbia, SC	05/09/06	CERT

Bar, Deform Billet Soft Metric

Upper 13mm through 36mm Gr. A 706. Lower 43mm through 57mm Gr. A 706 line through five spaces.



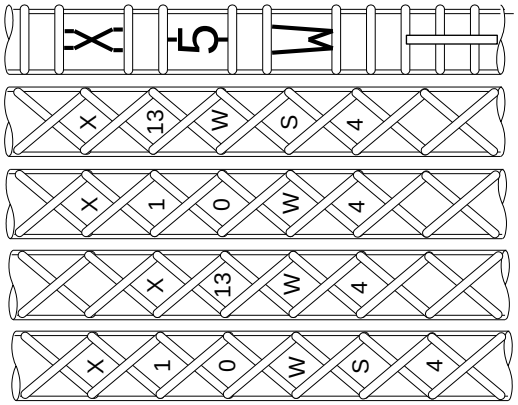
P/S#	P/S Name	City, State	Eff Date	Status

5652-01

5652-01 Evraz Rocky Mountain Steel North America Pueblo, Co 07/09/10 CERT

Bar, Deform Billet Soft Metric

ASTM A-706 Weldable Steel.



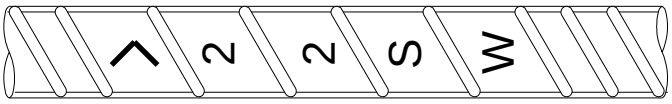
P/S#	P/S Name	City, State	Eff Date	Status

5888-04

5888-04	Steel Dynamics	Pittsboro, Indiana	07/18/12	CERT

Bar, Deform Billet Soft Metric

ASTM A-706 Grade 420 (Grade 60).



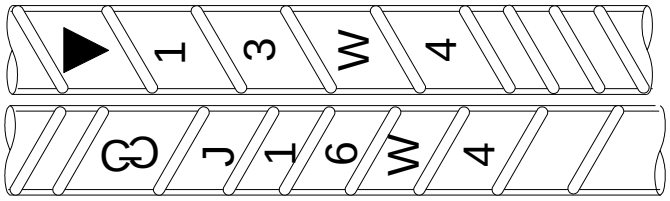
P/S#	P/S Name	City, State	Eff Date	Status

6024-01

6024-01	Gerdau AmeriSteel	Baldwin, FL	02/13/09	CERT

Bar, Deform Billet Soft Metric

ASTM A-706 Grade 420 (Grade 60).



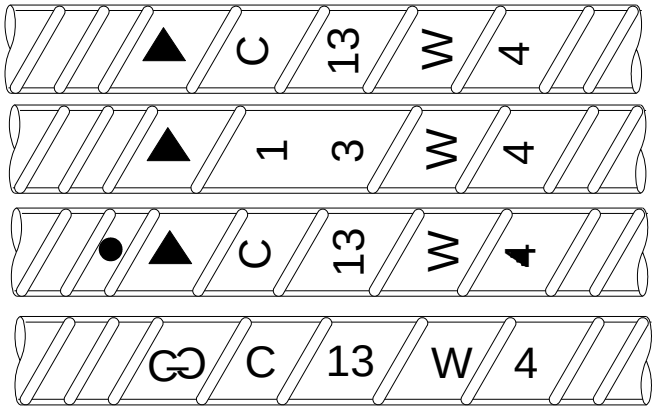
P/S#	P/S Name	City, State	Eff Date	Status

6024-02

6024-02	Gerdau AmeriSteel	Charlotte, NC	02/13/09	CERT

Bar, Deform Billet Soft Metric

Grade ASTM A-706 weldable reinforcing steel, upper bar old design.



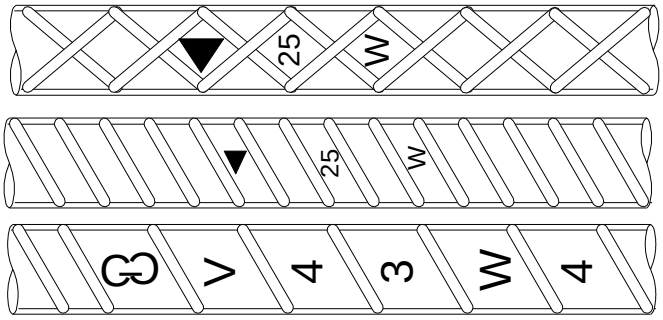
P/S#	P/S Name	City, State	Eff Date	Status

6024-03

6024-03	Gerdau AmeriSteel	Jackson, TN	02/13/09	CERT

Bar, Deform Billet Soft Metric

The upper bar is a 10mm through 36mm, and the lower is a 43mm & 57mm ASTM A 706 weldable bar.



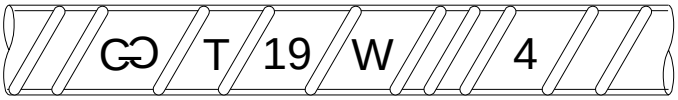
P/S#	P/S Name	City, State	Eff Date	Status

6024-04

6024-04	Gerdau AmeriSteel	Knoxville, TN	02/13/09	CERT

Bar, Deform Billet Soft Metric

A-706 Grade 420 (Grade 60) bar.



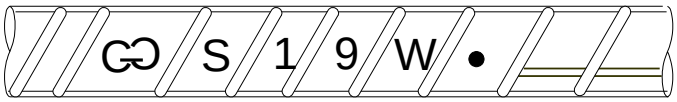
P/S#	P/S Name	City, State	Eff Date	Status

6024-05

6024-05	Gerdau AmeriSteel	Sayreville, NJ	02/13/09	CERT

Bar, Deform Billet Hard Metric

ASTM A-706 Grade 420 (Grade 60).



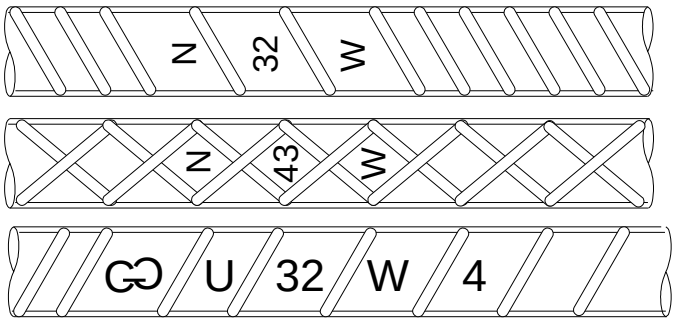
P/S#	P/S Name	City, State	Eff Date	Status

6024-13

6024-13	Gerdau AmeriSteel	St. Paul, MN	02/13/09	CERT

Bar, Deform Billet English

ASTM A-706 Gr. 420 (Grade 60)



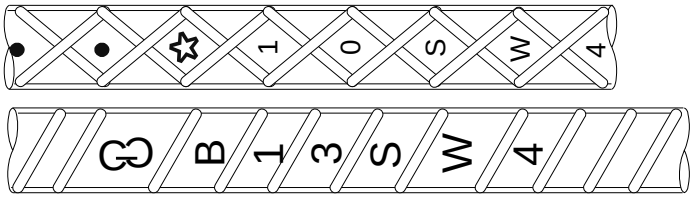
P/S#	P/S Name	City, State	Eff Date	Status

6024-15

6024-15	Gerdau AmeriSteel	Vidor, TX	02/13/09	CERT

Bar, Deform Billet Soft Metric

ASTM A-706 Weldable Steel



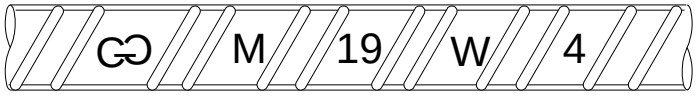
P/S#	P/S Name	City, State	Eff Date	Status

6024-24

6024-24	Gerdau AmeriSteel Midlothian	Midlothian, TX	02/13/09	CERT

Bar, Deform Billet Soft Metric

ASTM A-706 Grade 420 (Grade 60).



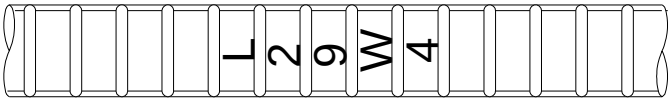
P/S#	P/S Name	City, State	Eff Date	Status

6093-01

6093-01	Alton Steel Co	Alton, IL	02/13/09	CERT

Bar, Deform Billet Soft Metric

ASTM A-706 Grade 420 (Grade 60).



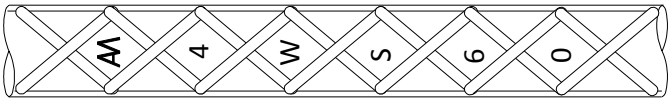
P/S#	P/S Name	City, State	Eff Date	Status

6351-05

6351-05	ArcelorMittal USA	East Chicago, Indiana	10/25/13	CERT

Bar, Deform Billet English

Coiled Bar: ASTM A-706 Grade 420 (Grade 60).



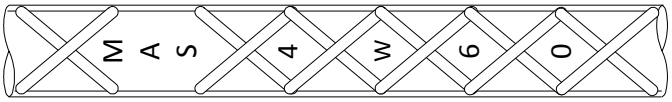
P/S#	P/S Name	City, State	Eff Date	Status

6911-01

6911-01	Mid-America Steel & Wire	Madill, OK	08/22/14	CERT

Bar, Deform Billet English

Coiled Rebar



P/S#	P/S Name	City, State	Eff Date	Status