American Iron and Steel Institute

News Release

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AISI UPDATES FOURTEEN S900-SERIES TEST STANDARDS

WASHINGTON, D.C. – The American Iron and Steel Institute (AISI) has updated 14 test standards in its S900-series, providing a complete series of updated test methods that supersede the previously published 2013 series. All test standards have been approved by the American National Standards Institute (ANSI) and are available for downloading free of charge at www.aisistandards.org.

"The AISI test standards are updated every five years to facilitate research and development leading to improved state-of-the-art solutions in steel for the construction market," said Jay Larson, P.E., F.ASCE, Managing Director, Construction Technical Program. "We also updated the titles for the 2017 series, so they have a more consistent format but differ slightly from the titles in the previous series. The suite of test standards is often referenced in industry acceptance criteria, providing a level playing field for establishing the performance characteristics of unique products and applications."

The updated test standards include the following:

- AISI S901-17, *Test Standard for Determining the Rotational-Lateral Stiffness of Beam-to-Panel Assemblies* (revision of AISI S901-13) - This test standard is used primarily in determining the strength of beams connected to panels as part of a structural assembly.

- AISI S902-17, *Test Standard for Determining the Effective Area of Cold-Formed Steel Compression Members* (revision of AISI S902-13) - This test standard primarily considers the effects of local buckling and residual stresses and is applied to solid or perforated columns that have holes (or hole patterns) in the flat and/or curved elements of the cross-section.

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- AISI S903-17, *Test Standard for Determining the Uniform and Local Ductility of Carbon and Low-Alloy Steels* (revision of AISI S903-13) - This test standard is primarily used as an alternative method of determining if steel has adequate ductility as defined in AISI S100, *North American Specification for the Design of Cold-Formed Steel Structural Members*.

- AISI S904-17, *Test Standard for Determining the Tensile and Shear Strengths of Steel Screws* (revision of AISI S904-13) – This test standard covers thread-forming or thread-cutting screws, with or without a self-drilling point, and with or without washers that are used to connect cold-formed sheet steel materials.

- AISI S905-17, *Test Standard for Determining the Strength and Deformation Characteristics of Cold-Formed Steel Connections* (revision of AISI S905-13) – This test standard includes several performance test methods that cover the determination of the strength and deformation of mechanically fastened or welded connections for cold-formed steel building components, and are based extensively on test methods used successfully in the past.

- AISI S906-17, *Test Standard for Determining the Load-Carrying Strength of Panels and Anchor-to-Panel Attachments for Roof or Siding Systems Tested in Accordance With ASTM E1592* (revision of AISI S906-13) - This test standard extends and provides the methodology for interpretation of test results performed according to ASTM E1592.

- AISI S907-17, *Test Standard for Determining the Strength and Stiffness of Cold-Formed Steel Diaphragms by the Cantilever Test Method* (revision of AISI S907-13) - This test standard covers the determination of the nominal diaphragm web shear strength and web shear stiffness, or flexibility, where framed wall, roof or floor cold-formed steel deck diaphragm construction is to be used.

- AISI S908-17, *Test Standard for Determining the Flexural Strength Reduction Factor of Purlins Supporting a Standing Seam Roof System* (revision of AISI S908-13) - This test standard is used to

obtain the reduction factor for determining the nominal flexural strength of a purlin supporting a standing seam roof system.

- AISI S909-17, *Test Standard for Determining the Web Crippling Strength of Cold-Formed Steel Flexural Members* (revision of AISI S909-13) - This test standard establishes procedures for determining the web crippling strength of cold-formed steel flexural members.

- AISI S910-17, *Test Standard for Determining the Distortional Buckling Strength of Cold-Formed Steel Hat-Shaped Compression Members* (revision of AISI S910-13) - This test standard establishes procedures for determining the distortional buckling strength of cold-formed steel hat-shaped compression members with an open cross-section.

- AISI S911-17, *Test Standard for Determining the Flexural Strength of Cold-Formed Steel Hat-Shaped Members* (revision of AISI S911-13) - This test standard establishes procedures for determining the nominal flexural strength of an open hat-shaped cross-section subject to negative bending moment.

- AISI S912-17, *Test Standard for Determining the Strength of a Roof Panel-to-Purlin-to-Anchorage Device Connection* (revision of AISI S912-13) – This test standard is used to obtain lower bound strength values for the roof panel-to-purlin-to-anchorage device connections in through-fastened and standing seam, multi-span, multi-purlin line roof systems. The test is not intended to determine the ultimate strength of the connections.

- AISI S913-17, *Test Standard for Determining the Strength and Deformation Behavior of Hold-Downs Attached to Cold-Formed Steel Structural Framing* (revision of AISI S913-13) - This test standard provides two methods to determine both the strength and deformation of hold-downs used in light-frame construction. One of the test methods determines the strength and deformation of the hold-down device, and the other test method determines the strength and deformation of the hold-down assembly.

- AISI S914-17, *Test Standard for Determining the Strength and Deformation Behavior of Joist Connectors Attached to Cold-Formed Steel Structural Framing* (revision of AISI S914-13) - This test standard provides a method to determine both the strength and deformation of joist hangers and similar devices used in light-frame construction.

AISI's codes and standards work is conducted under the Construction Market Council of the Steel Market Development Institute (SMDI),which increases and defends the use of steel by developing innovative materials, applications and value-added solutions for customers in the automotive, construction and packaging markets. SMDI investors include: AK Steel Corporation, ArcelorMittal, Nucor Corporation and SSAB Americas. For more information on SMDI's Construction Market program, visit www.buildusingsteel.org. Follow SMDI Construction on Twitter @BuildUsingSteel.

AISI serves as the voice of the North American steel industry in the public policy arena and advances the case for steel in the marketplace as the preferred material of choice. AISI also plays a lead role in the development and application of new steels and steelmaking technology. AISI is comprised of 21 member companies, including integrated and electric furnace steelmakers, and approximately 120 associate members who are suppliers to or customers of the steel industry. For more news about steel and its applications, view AISI's website at www.steel.org. Follow AISI on Facebook or Twitter (@AISISteel).

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