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AISI PUBLISHES 2013 EDITION OF COLD-FORMED STEEL DESIGN MANUAL
New Edition Supplements AISI S100-12; Updates 2008 Edition

WASHINGTON, D.C. – The American Iron and Steel Institute (AISI) has published the 2013 Edition of the *Cold-Formed Steel Design Manual*, which supplements AISI S100-12, *North American Specification for the Design of Cold-Formed Steel Structural Members, 2012 Edition*. It consists of two volumes and is available for purchase at AISI's online Steel Store, <https://shop.steel.org/>.

The new manual was developed under the direction of AISI's Committee on Specifications for the Design of Cold-Formed Steel Structural Members. It provides the latest design information and examples for conformance with AISI S100-12.

The contents of the 2013 Edition of the Design Manual have been reorganized. All of the AISI S900-series Test Standards have been removed from the manual and are now available for downloading free of charge at www.aisistandards.org. The 2012 Edition of the North American Specification and the Commentary are included as part of the Design Manual. The charts and tables have been streamlined to include the most popular yield strength per cross-section, and new design examples have been added for the new design provisions.

Contents of the Design Manual. The 2013 Edition of the *Cold-Formed Steel Design Manual* consists of eight parts:

- *Part I, Dimensions and Properties* – Contains: a) information regarding the availability and properties of steels referenced in the *Specification*, b) tables of section properties, and c) formulas and examples of calculations of section properties.
- *Part II, Beam Design* – Contains: a) tables and charts to aid in beam design, and b) beam design example problems.

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- *Part III, Column Design* – Contains: a) tables to aid in column design, and b) column design example problems.
- *Part IV, Connections* – Contains: a) tables to aid in connection design, and b) connection example problems.
- *Part V, Supplementary Information* - Contains: a) a table of *Specification* cross-references to the examples provided in the Design Manual, b) design procedures of specification nature which are not included in the *Specification* itself, either because they are infrequently used or are regarded as too complex for routine design, and c) other information intended to assist users of cold-formed steel.
- *Part VI, Test Procedures* - Contains: a) a bibliography of other pertinent test methods, and b) test calibration example problems.
- *Part VII, North American Specification* - Contains the 2012 Edition of *the North American Specification for the Design of Cold-Formed Steel Structural Members*.
- *Part VIII, Commentary on the North American Specification* - Contains the 2012 Edition of the *Commentary on the North American Specification for the Design of Cold-Formed Steel Structural Members*.

Changes/Additions to the Design Manual. In addition to the removal of the Test Standards and the addition of the North American Specification and Commentary, the following changes and improvements or additions have been made to the 2013 Edition of the *Cold-Formed Steel Design Manual*:

- New design examples have been added to illustrate new design provisions in the *Specification*:
 - Round and rectangular tubular section member design in Parts II and III,
 - C-Section member subjected to combined bending and torsional loading in Part II,
 - Distortional buckling of C-Section members in Parts II and III,
 - Sigma-shaped flexural and compression member design by the Direct Strength Method in Parts II and III,
 - Web crippling strength of beam webs with bearing stiffeners in Part II, and
 - Frame design with consideration of second-order analysis in Part III.

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Dedication of the Design Manual. “AISI is pleased to dedicate the 2013 Edition of the *Cold-Formed Steel Design Manual* to Dick Kaehler, a former vice president of Computerized Structural Design in Milwaukee, Wisconsin, who is now retired,” said Jay Larson, P.E., F.ASCE, managing director of AISI’s Construction Technical Program. “Dick has been the developer of the AISI Design Manual since the 1996 Edition, and he has developed every combined ASD and LRFD edition since then. He has made many significant contributions to cold-formed steel design, and we are proud to recognize his work in this way.”

AISI’s codes and standards work is conducted under the Construction Market Council of the Steel Market Development Institute (SMDI), a business unit of AISI, which oversees the industry’s investment in advancing the competitive use of steel by meeting the demands of the marketplace. For more information on SMDI’s Construction Market program, visit www.smdisteel.org.

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 22 member companies, including integrated and electric furnace steelmakers, and approximately 125 associate members who are suppliers to or customers of the steel industry. AISI’s member companies represent over three-quarters of both U.S. and North American steel capacity. For more news about steel and its applications, view AISI’s website, www.steel.org.

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