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Design Manual
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~~Designing a Cold
Formed Steel Beam
Using AISI S100-16
Webinar Cold-Formed
Steel Design — Explore
the Latest
Developments Cold-
Formed Steel Beam~~

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~~Design to AS4600:2018
and 2005 - Webinar
Recording~~ How to
Design a Cold Formed
Steel Beam to AISI
S100-16 in ClearCalcs
STAAD User table for
aluminum \u0026amp; cold-
formed section creation
Cold Formed Steel
Design Cold Formed
Steel Sections Cold
Formed Steel Lateral
Design What is COLD-

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FORMED STEEL?

What does COLD-
FORMED STEEL?

COLD-FORMED
STEEL meaning

\u0026amp; explanation

NSCP 2015 COLD

FORMED STEEL

DESIGN Cold Form
Steel Construction

Designing with Cold-
Formed Steel? Don ' t

Overlook These 2

Costly Construction

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Details Staircase made
of cold formed steel and
light gauge steel house
process Rock Reach
House Framed in 5
Days - Time Lapse
Load Bearing Wall
Framing Basics -
Structural Engineering
and Home Building Part
One Cold Formed Steel
construction project
faster with
FRAMECAD advanced

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steel framing automated

process prefab luxury

homes house light steel

villa installation

construction video ACT

Building Systems

making COLD

FORMED buildings

easy ~~Steel Framing With~~

~~FRAMECAD: Erecting~~

~~the Frame~~ Cold formed

structures from design to

building LANKMETA -

Production of cold

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formed steel profiles

Light gauge steel
structure and cellular

lightweight concrete

infill construction

technology

Cold-Formed Steel
Design – Explore the
Latest Developments

~~Cold-Formed Steel~~
~~Building Structure:~~

~~Composite Total Joist~~
Cold formed steel
structure building

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assembling time lapse

2018 IBC Cold-Formed
Steel Design Changes

Cold Formed Steel

Construction Cold-

Formed Steel

Connectors Installation

Direct Strength Method
for Cold-Formed Steel

Design

Matlab Program for

Cold Formed Steel

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AISI Publishes Cold-
Formed Steel Design
Manual, 2017 Edition

June 13, 2018

WASHINGTON, D.C.,

June 13, 2018 – The American Iron and Steel Institute (AISI) has published the Cold-Formed Steel Design Manual, 2017 Edition , which is to be used in conjunction with AISI S100-16, North

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American Specification
for the Design of Cold-
Formed Steel Structural
Members, 2016 Edition
and the Commentary.

~~AISI Publishes Cold-
Formed Steel Design
Manual, 2017 Edition~~
Design of Cold Formed
Steel Structural
Members (AISI 2001a)
and the Supplement
2004 to the North

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American Specification (AISI 2004). Reference is also made to ASCE 7-05 (ASCE 2005) and the 2006 International Building Code (IBC 2006). The examples show how to translate the information available in load tables into complete structural systems.

~~Cold Formed Steel~~

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~~Framing Design Guide,
Second Edition~~

American Iron and
Steel Institute, "AISI
Manual Cold-Formed
Steel Design 2002
Edition" (2003). AISI-
Specifications for the
Design of Cold-Formed
Steel Structural
Members. 130. <https://scholarsmine.mst.edu/ccfss-aisi-spec/130> This
Technical Report is

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~~Formed Steel Design~~

~~2002 Edition~~

Engineer The American

Iron and Steel Institute

(AISI) has updated AISI

S201, North American

Standard for Cold-

Formed Steel Framing

– Product Data. AISI

S201-17 supersedes the

previous edition, AISI

S201-12. The standard

has been approved by

the American National

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Standards Institute
(ANSI) and is available
for downloading free of
charge.

~~Free Download: AISI
Updates Cold-Formed
Steel Framing ...~~

AISI Publishes Two
New Cold-Formed Steel
Research Reports
September 29, 2020

“ RP20-4: Cold-
Formed Steel Bracing

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Design Using Steel
Combinations of
Discrete and Sheathing
Bracing ” and

“ RP20-5: Structural
Design Example –
Four Span Metal
Building Z-Purlin Line
Supporting a Standing
Seam Roof ” are
available for free
download at
www.buildusingsteel.org
and www.cfsei.org.

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~~Design Aids – Resources
for Steel Building~~

~~Construction~~

CFSEI offers memberships to engineering firms, individual professional engineers, and students in cold-formed steel industry. When you join CFSEI, you will gain access to a wide range of benefits uniquely

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Formed to the needs of
engineers who work
with or want to learn
more about cold-formed
steel. Join Today or
Renew Your Dues

~~Home [www.cfsei.org]~~
AISI Committee on
Specifications for the
Design of Cold-Formed
Steel Structural
Members and its
Subcommittees R. L.

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Brockenbrough,
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Vice-Chairman H. H.
Chen, Secretary D.
Allen R. Bjorhovde J. K.
Crews D. A. Cuoco L.
R. Daudet E. R.
diGirolamo C. J.
Duncan D. S. Ellifritt E.
R. Estes, Jr.

~~North American
Specification for the
Design of Cold-Formed~~

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The American Iron and Steel Institute (AISI)

today applauded passage of a measure that would set sufficient funding levels for trade enforcement activities conducted by the International Trade Administration (ITA) Office of Enforcement and Compliance (E&C) to ensure adequate

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Resources to combat
unfair trade practices.
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~~AISI: American Iron
and Steel Institute |
Steel Industry ...~~

To facilitate the use of
AISI S100-12, the
American Iron and
Steel Institute (AISI)
developed the 2013
edition of its Cold-
Formed Steel Design
Manual (Manual). The

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Manual includes 63 worked example problems, tabulated and graphical design aids, and supplemental information relevant to the design of cold-formed steel.

STRUCTURE

magazine | ~~AISI Cold-Formed Steel Design Manual ...~~

The R Value for cold

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formed steel design is described in Section 16.2.1 of the AISI code and is used to calculate the moment capacity of beams that have one flange fastened to deck or sheathing. This value only applies to C or Z members and can vary from 0.4 to 0.7 based on the depth of the member (See Table 16.2.1-1 in the AISI

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Formed Steel
Supplement for the
actual values).
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~~Cold Formed Steel-~~

~~Design - risa.com~~

Section I2, Floor, Roof,
or Wall Steel

Diaphragm

Construction. AISI

S310, AISI S240, and

AISI S400 are

introduced for

diaphragm design, and

the table of Safety and

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Resistance Factors for
Diaphragms is moved to
AISI S310. Section I4,
Cold-Formed Steel
Light-Frame
Construction. The cold-
formed steel framing
standards are updated.

~~North American
Specification for the
Design of Cold-Formed~~

...

AISI S214-12, North
Page 26/37

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American Standard for Cold-Formed Steel Framing – Truss Design
Consequently, AISI S240 will supersede all previous editions of the above-mentioned individual AISI Standards. In 2015, AISI S400, North American Standard for Seismic Design of Cold-Formed Steel Structural Systems, was developed.

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Modifications were
made to align the
provisions of 40 with
AISI S2

~~North American
Standard for Cold-
Formed Steel Structural~~

...

The American Iron and
Steel Institute
Committee on Framing
Standards has
developed Supplement 1

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to AISI S211, the North American Standard for Cold-Formed Steel Framing – Wall Stud Design, to update referenced documents and remove provisions related to nonstructural member design, which are covered by a newly published standard, AISI S220, North American Standard for Cold-Formed Steel

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Framing - Nonstructural Members.

~~AISI S211-07-S1-12~~

~~Combined Final~~

~~5-14-13 E~~

Iron and Steel Institute
(AISI) S100-16,
“ North American
Specification of the
Design of Cold-Formed
Steel Structural
Members ” and other
AISI standards

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Formed in Section
2210 of the 2018
Design Manual
International Building
Code (IBC-2018). The
structural prop-

~~Technical Guide for
Cold-Formed Steel
Framing Products~~
The American Iron and
Steel Institute (AISI)
and the Wei-Wen Yu
Center for Cold-Formed
Steel Structures

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(CCFSS) at the Missouri
University of Science
and Technology

announce the
publication of “ Cold-
Formed Steel Design –
Fifth Edition, ”
recognized by
professionals around the
world as the definitive
text on cold-formed steel
design.

~~New Publication: "Cold-~~

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~~Formed Steel Design~~

~~Fifth Edition ...~~

The American Iron and
Steel Institute

Committee on Framing
Standards has

developed AISI S213,

the North American

Standard for Cold-

Formed Steel Framing

– Lateral Design, to

address the design of

lateral force resisting

systems to resist wind

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and seismic forces in a wide range of buildings constructed with cold-formed steel framing.

~~AISI S213-07 w/S1-09
(2012) AISI ... AISI
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please contact
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Manual Cold-Formed
Steel Design 2002
Edition" (2003).

~~AISI MANUAL COLD
FORMED STEEL
DESIGN 2002
EDITION ...~~

E. American Codes -
Steel Design per AISI
Cold Formed Steel
Code Provisions of the
AISI Specification for
the Design of Cold-

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Formed Steel Structural Members, 1996 Edition have been implemented.

The program allows design of single (non-composite) members in tension, compression, bending, shear, as well as their combinations using the LRFD Method.

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