

## TOP STORIES

### Visit Us in New England

Join us at the 52nd New England Building Officials Education Conference, October 1-3, in Amherst, Massachusetts. [More](#)

### What's happening? Inquiries Set to Outpace 2017!

Traditionally, we report to the membership statistics for 1-800-79-STEEL, Ask An Expert, and requests for educational seminars at the end of each year. [More](#)

### Calling All NEW Fire and Acoustic Assemblies – SFA Updating Fire and Acoustic Guide

The Steel Framing Alliance is in the process of updating the Guide to Fire and Acoustic Guide for Cold-Formed Wall, floor and Roof Assemblies, and your assistance is needed to complete the process. [More](#)

## COLD-FORMED STEEL ENGINEERS INSTITUTE – NEWS AND UPDATES

### CFSEI to Host Webinar on Cold-Formed Steel Framing Design with the Direct Strength Method on October 11, 2018

The Cold-Formed Steel Engineers Institute (CFSEI) will host a webinar on “Cold-Formed Steel Framing Design with the AISI Direct Strength Method” on Thursday, October 11, 2018 at 1:30 p.m. EDT. [More](#)

### CFSEI Announces 2018-2019 Executive Committee Members

The Cold-Formed Steel Engineers Institute (CFSEI) has announced the members of its 2018-2019 Executive Committee. [More](#)

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### CFSEI Names Recipient of the 2018 CFSEI John P. Matsen Award for Distinguished Service

The Cold-Formed Steel Engineers Institute (CFSEI) has named Jennifer Zabik, P.E., S.E., president of Zabik-Turner Engineering, LLC as the recipient of the 2018 CFSEI John P. Matsen Award for Distinguished Service. [More](#)

### CFSEI Announces 2018 Design Excellence and Innovative Detail Award Winner

The Cold-Formed Steel Engineers Institute (CFSEI) presented three first-place Design Excellence awards and one first-place Innovative Detail award during the 2018 CFSEI Expo held May 15-16 at the Wyndham San Diego Bayside Hotel in San Diego, California. Design Excellence awards were also presented for second-place and third-place winners. [More](#)

### Call for New Members – Stainless Steel Standard (ASCE 8)

The revision cycle for [ASCE 8-02 Specification for the Design of Cold-Formed Stainless Steel Structural Members](#) will begin in 2018. [More](#)

## MARKETPLACE

### Projections Reveal Nonresidential Construction Spending to Grow

Construction spending is projected to grow through 2019, according to a new consensus forecast from The American Institute of Architects (AIA). [More](#)

### Builder Confidence Slips Two Points as Lumber Prices Soar

Builder confidence in the market for newly-built single-family homes fell two points to 68 in June on the National Association of Home Builders/Wells Fargo Housing Market Index (HMI). [More](#)

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## AISI Standards Council Approves Formation of New Subcommittee on Composite Member Design and Seeks Experts to Participate

The American Iron and Steel Institute (AISI) Standards Council has approved the formation of a new subcommittee for composite member design and is seeking individuals to participate. [More](#)

## AISI Publishes Cold-Formed Steel Design Manual 2017 Edition

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 American Specification for the Design of Cold-Formed Steel Structural Members, 2016 Edition* and the *Commentary*. [More](#)

## AISI Updates Cold-Formed Steel Framing Design Standard

The American Iron and Steel Institute (AISI) has updated AISI S201, *North American Standard for Cold-Formed Steel Framing – Product Data*, it was announced today. AISI S201-17 supersedes the previous edition, AISI S201-12. [More](#)

## New Home Sales Rise to Highest Level This Year

Sales of newly built, single-family homes rose 6.7 percent in May to a seasonally adjusted annual rate of 689,000 units after a downwardly revised April report, according to newly released data by the U.S. Department of Housing and Urban Development and the U.S. Census Bureau. [More](#)

## AISI Publishes New Test Standard

The American Iron and Steel Institute (AISI) has published a new test standard in its S900-series—AISI S919-17, *Test Standard for Determining the Flexural Strength and Stiffness of Cold-Formed Steel Nonstructural Members*. [More](#)

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## American Manufacturers Learn Canadian Building Codes

Underwriters Laboratories (UL)/CLEB sponsored a workshop at the American Architectural Manufacturers Association (AAMA) 2018 Summer Conference, clarifying what U.S. manufacturers need to know about Canadian codes, especially the Canadian Standards Association (CSA) A440S1-17, *Canadian Supplement to the North American Fenestration Standard (NAFS)-11*. [More](#)

## AISI Publishes New Report on Thermal Analysis of Cold-Formed Steel Wall Assemblies

The American Iron and Steel Institute (AISI) has published the findings from research conducted to support the development of a calculation methodology for determining the U-factors and R-values for wall assemblies containing cold-formed steel. [More](#)

## Metals and Lumber Prices Hit Double-Digit Increases

Construction costs continued to accelerate in May with double-digit increases for a range of building and road materials, including many that are subject to newly proposed tariffs that could drive prices even higher, reports the [Associated General Contractors of America](#) (AGC). [More](#)

## AIA 2030 Commitment Invites Engineers

Engineers can now join architects in signing up for The American Institute of Architects (AIA) 2030 Commitment to measure progress towards reducing energy and carbon in the design of buildings. [More](#)

## Fire Hazards Workshop Singles Out Construction Materials for More Research

A recent workshop on fire properties of materials concluded cross-laminated timber (CLT) and insulation applied to the exteriors of high-rise buildings are among the materials most in need of urgent research and development. [More](#)

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### What's happening? Inquiries Set to Outpace 2017!

Traditionally, we report to the membership statistics for 1-800-79-STEEL, Ask An Expert, and requests for educational seminars at the end of each year. But this year due to the dramatic increase in inquiries we want to give you a snapshot to what "inquiring minds want to know."

Fueled by increases in material costs and quality issues builders are looking to shore up their business by becoming more diverse in their offerings by including steel. Up 22%, from last year many of the inquiries are initiated by single and multi-family home builders looking for specific information on supply, sub-trades training and assistance with building permitting and inspection. Fortunately, the ground work for all of this was accomplished back in the good old days with the development of the AISI's *Prescriptive Method for One and Two-Family Dwellings*, and its adoption into the International Code Councils, International Residential Code. Developers are seeking assistance as well in planning residential sub-divisions. Many are seeking opportunities for panelization and moving toward a one stop shop for all design, engineering and installation.

It has been refreshing witnessing the resurgence in interest in cold-formed steel residential construction and the industry stands ready to assist.

If you have questions about the latest developments in cold-formed steel framing call the hotline at 1-800-79-STEEL or send your inquiry our "[Ask an Expert](#)".

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### Calling All NEW Fire and Acoustic Assemblies – SFA Updating Fire and Acoustic Guide

The Steel Framing Alliance is in the process of updating the Guide to Fire and Acoustic Guide for Cold-Formed Wall, floor and Roof Assemblies, and your assistance is needed to complete the process. The first edition was published in 2003, and the most current version 2017 has 177 pages and includes assemblies for floors, walls (both structural and non-structural) and roofs.

The goal of SFA is to produce high-quality, up to date resources for both the residential and commercial construction marketplace. It is anticipated that the revised document will be available by the first quarter of next year. Both the printed and online searchable directory will be updated.

If you would like to submit new tested assemblies, or suggest removal of obsolete assemblies you may do so by submitting them [online here](#) or directly to George Frater at [gfrater@steel.org](mailto:gfrater@steel.org). George is the champion of this effort. Deadline to be included in the 2019 version is November 15.

This guide is produced cooperatively by the SFA, The Canadian Steel Construction Council (CSCC) and the American Iron and Steel Institute.

For additional information on this initiative please contact Maribeth Rizzuto at [mrizzuto@steel.org](mailto:mrizzuto@steel.org).

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**CFSEI**  
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ENGINEERS INSTITUTE

## CFSEI to Host Webinar on Cold-Formed Steel Framing Design with the Direct Strength Method on October 11, 2018

The Cold-Formed Steel Engineers Institute (CFSEI) will host a webinar on “Cold-Formed Steel Framing Design with the AISI Direct Strength Method” on Thursday, October 11, 2018 at 1:30 p.m. EDT. The webinar is designed for architects, engineers, building officials and contractors. Participants are eligible for 1.5 PDHs.

The Direct Strength Method is a design method for cold-formed steel framing that provides an alternative to the traditional Effective Width Method. It provides a unified, robust and flexible design approach for cold-formed steel shapes that enables lower-cost steel construction. In this webinar, the Direct Strength Method will be applied to thin-walled buckling limit states, member strength prediction, and system connectivity. Attendees will learn how to perform their own Direct Strength Method calculations, which can be used to determine the allowable height of a sheathed stud wall and the wind uplift strength of a screwed-down roof system in a metal building. It also serves as a tool for users to innovate, allowing them to create span tables for a new joist product with complex web stiffeners. The link between the member cross-section and the parts and pieces that make up cold-formed steel framing systems is made directly with the Direct Strength Method.

The webinar will be presented by Cristopher D. Moen, Ph.D., P.E., F.SEI, CEO and President of NBM Technologies, Inc., an academically rooted company that plans, executes and automates R&D for building system, solar, aerospace, and defense industries. Moen started his career as a bridge engineer at J. Muller International (1997-2002) and Parsons Corporation (2002-2004) where he specialized in precast post-

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tensioned segmental construction. He completed his Ph.D. at the Johns Hopkins University (2004-2008) where he focused on cold-formed steel, and then worked up to Associate Professor at Virginia Tech (2008-2016). He is the 2017 recipient of the Structural Stability Research Council's McGuire Award for Junior Researchers. Moen is a registered professional engineer in the Commonwealth of Virginia. In addition to leading NBM, he continues to teach and conduct research part-time at the Johns Hopkins University.

More information on the webinar and registration is available at <https://www.cfsei.org/webinar-october-11-2018>.

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**CFSEI**  
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## CFSEI Announces 2018-2019 Executive Committee Members

The Cold-Formed Steel Engineers Institute (CFSEI) has announced the members of its 2018-2019 Executive Committee. The committee is responsible for developing and maintaining the technology transfer activities related to cold-formed steel design through seminars, webinars and the publication of Technical Notes. Committee members serve for two years.

The 2018-2019 CFSEI Executive Committee includes:

- Chairman – Paul Dalia, P.E. - 5400 Engineering, Florida
- Immediate Past Chairman (non-voting) – Georgi Hall, P.E. – California Expanded Metal Products Company (CEMCO), California
- Vice Chairman – Julie Lowrey, P.E. – Zabik-Turner Engineering, Florida
- Committee Members:
  - Nate Bacon, P.E. – Base Design Group, Inc., Maine
  - Matthew Mancl, P.E. – ClarkDietrich Engineering Services, LLC, Indiana
  - Andrew Newland, P.E. – ADTEK Engineers, Inc., Virginia
  - Brandon Wahl, P.E. – 360 Engineering Group, Oklahoma
  - Robert Warr, P.E. - Frameworks Engineering, Georgia
  - Kirsten Zeydel, S.E. – Digital Building Components, Arizona

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## CFSEI Names Recipient of the 2018 CFSEI John P. Matsen Award for Distinguished Service

The Cold-Formed Steel Engineers Institute (CFSEI) has named Jennifer Zabik, P.E., S.E., president of Zabik-Turner Engineering, LLC as the recipient of the 2018 CFSEI John P. Matsen Award for Distinguished Service. The award recognizes the significant contributions of an individual who has volunteered time, talent and resources to the cold-formed steel industry. It was renamed in 2016 to honor John P. Matsen, P.E., founder and principal of Matsen Ford Design Associates in Waukesha, Wisconsin, who passed away in June 2015. Jennifer Zabik was recognized during the 2018 CFSEI Expo held May 15-16 at the Wyndham San Diego Bayside Hotel in San Diego, California.

“Jennifer has contributed countless hours to educating others about using cold-formed steel in building construction through her work at CFSEI,” said Maribeth Rizzuto, LEED AP – BD+C, managing director of the Cold-Formed Steel Engineers Institute. “She has taken on everything we offer, from presenting webinars to leading CFSEI Expo sessions to leading the Florida chapter to being president of our National Executive Committee. Her tremendous efforts have advanced the use of cold-formed steel framing in the marketplace. Jennifer is valued and respected by her peers at CFSEI, and we are honored to present her with our highest award for individual achievement.”

Jennifer Zabik, P.E., S.E. oversees all engineering and drafting for the design of structural engineering projects for Zabik-Turner Engineering, LLC. She is based in Winter Garden, Florida and is licensed in multiple states and Puerto Rico. She has served in multiple leadership positions with CFSEI, including membership on the Florida Chapter’s Board of Directors from 2009-2013 and as its president from 2010-2011, and as a member of CFSEI’s National Executive Committee from 2013-2014, serving as

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vice-chair in 2014 and as president in 2015-2016. She was on the Board of Directors for the Structural Engineering Institute of the American Society of Civil Engineers (ASCE – SEI) from 2010-2014, serving as director in 2014.

The 2018 CFSEI Expo was attended by more than 100 architects, builders/contractors, engineers and other construction industry professionals. The event provided opportunities for education, networking, and an exposition featuring state-of-the-art innovations, technologies and principles in cold-formed steel framing. This annual event is the only one of its kind dedicated to the cold-formed steel framing industry and is held on an annual basis.

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## CFSEI Announces 2018 Design Excellence and Innovative Detail Award Winner

The Cold-Formed Steel Engineers Institute (CFSEI) presented three first-place Design Excellence awards and one first-place Innovative Detail award during the 2018 CFSEI Expo held May 15-16 at the Wyndham San Diego Bayside Hotel in San Diego, California. Design Excellence awards were also presented for second-place and third-place winners.

CFSEI Design Excellence Awards recognize small and large projects that exemplify distinction in the structural design of new or renovated structures utilizing cold-formed steel products. This year, three first-place awards were given to recognize municipal, commercial and residential projects. The 2018 CFSEI Design Excellence Award winners were: 1) Municipal – Frameworks Engineering for Trinidad Baptist Church in Capitol Heights, Maryland; 2) Commercial – Matsen Ford Design Associates, Inc. for the 1600 West Loop South Ballroom Ceiling in Houston, Texas; and 3) Residential - ClarkDietrich Engineering Services LLC for AIT Barracks Complex Phase I in Monterey, California.

The Innovative Detail Award recognizes a cold-formed steel detail that exemplifies creativity or ingenuity to solve a design challenge. The 2018 CFSEI Innovative Detail Award was presented to ZFA Structural Engineers for the Swooping Eyebrow Detail on the Graton Rancheria Resort Hotel in Rohnert Park, California.

“We are always amazed and inspired by these award-winning projects, which demonstrate the versatility of cold-formed steel design in solving complex design issues,” said Maribeth Rizzuto, LEED AP – BD+C, managing director of the Cold-

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Formed Steel Engineers Institute. “If you’re an architect, contractor or owner who is looking for new ideas or a different approach to your projects, we think you’ll be challenged by these award-winning structures to consider cold-formed steel framing in your designs. We appreciate the many entries that were submitted for this design competition.”

Video interviews with the award winners about their projects and case studies are being posted on the CFSEI website at [www.cfsei.org](http://www.cfsei.org).

## About the Projects

### **First-Place Design Excellence Award / Municipal Project – Frameworks Engineering - Trinidad Baptist Church - Capitol Heights, Maryland**

This project was a renovation of an existing building and had a unique corner architectural feature to mimic a triangle of the Trinity with a Christian cross centered within the feature. The project highlights all aspects of modern cold-formed steel framing engineering, including prefabrication, 3-D framing analysis, Building Information Modeling (BIM) drawing and detailing, and coordination with the design team to meet the design intent. Many of these elements were interdependent, and the results were iterated in order to meet all of the design needs.

### **First-Place Design Excellence Award / Commercial Project – Matsen Ford Design Associates, Inc. - 1600 West Loop South Ballroom Ceiling - Houston, Texas**

The 1600 West Loop Building is a 38-story, 700,000-square-foot luxury hotel housing 250 rooms and suites. It sits as a centerpiece within a 10-acre mixed-use development that includes restaurants, retail, and office space. The main framing of the project was at The Grand Ballroom, a 16,000-square-foot, two-story event space with 12 vaulted Glassfiber Reinforced

Gypsum (GRG) ceilings with chandeliers. The main structure of the Grand Ballroom consists of structural steel beams, with cold-formed steel framing out of the ornate, vaulted ceiling.

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## **First-Place Design Excellence Award / Residential Project - ClarkDietrich Engineering Services LLC - AIT Barracks Complex Phase I - Monterey, California**

The AIT Barracks facility is a \$56 million, 110,000-square-foot structure used to house up to 320 Defense Language Institute students. The facility was commissioned by the U.S. Army Corps of Engineers to serve as a modernized, private-sector residence and to replace outdated facilities at Presidio of Monterey. In addition to modern amenities, the structure also boasts many sustainability features such as solar panels, rainwater collectors and highly efficient HVAC systems. The structure is unique with its numerous lateral and vertical design considerations in addition to a massive coordination effort between trades through BIM and panelization.

## **First-Place Innovative Detail Award - ZFA Structural Engineers - Swooping Eyebrow Detail on the Graton Rancheria Resort Hotel - Rohnert Park, California**

The Graton Rancheria Resort is a new full-service, 200-room, six-story hotel, event center, and casino located north of San Francisco in Rohnert Park, Sonoma County, California. One of the hotel's main visual characteristics is the tower's exterior architecture featuring a swooping eyebrow expanding out past the exterior wall line at the roof elevation. The structural design and detailing of this element was crucial to maintaining the focal point of the building and presented numerous challenges.

CFSEI Design Excellence Awards were also presented to:

- **Second-Place Design Excellence Award – CEMCO – Park Lane Ala Moana – Honolulu, Hawaii**
- **Second-Place Design Excellence Award – The Leffler Group – Bay Area Refinery Wharf Central Control Building – Martinez, California**
- **Second-Place Design Excellence Award – Excel Engineering – Pinnacle Bank Arena – Lincoln, Nebraska**
- **Third-Place Design Excellence Award – Radius Track Corporation – Duke Ellington School of the Arts, Washington, DC**

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**CFSEI**  
COLD-FORMED STEEL  
ENGINEERS INSTITUTE

## Call for New Members – Stainless Steel Standard (ASCE 8)

The revision cycle for [ASCE 8-02 Specification for the Design of Cold-Formed Stainless Steel Structural Members](#) will begin in 2018. The committee will be seeking new members to begin work on the next edition of the standard. Ben Shafer, Professor at Johns Hopkins University, will chair the next cycle. Practicing engineers, researchers, building officials, contractors and construction product representatives are all needed and welcome. If you are interested to apply for the committee, please submit an application by Nov. 31, 2018, via the <http://www.asce.org/structural-engineering/sei-codes-and-standards-committee-application/> . Carefully indicate the Membership Category for which you are applying. Associate members can be accepted until balloting begins. Eligible regulatory members can qualify for travel reimbursement per ASCE Travel Policy. Contact Jennifer Goupil with questions at [jgoupil@asce.org](mailto:jgoupil@asce.org) or 571-421-3998.

*Editor, Framework Online*

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## MARKETPLACE

### Projections Reveal Nonresidential Construction Spending to Grow

#### AIA releases latest Consensus Construction Forecast.

**WASHINGTON – Aug. 8, 2018** – Construction spending is projected to grow through 2019, according to a new consensus forecast from The American Institute of Architects (AIA).

Spending on nonresidential buildings nationally increased only modestly last year, barely outpacing inflation in building costs. Halfway through the seventh year of continuous growth for the cyclical construction industry, 2018 might have looked to be the year that the industry would enter another recession. However, when polled at the beginning of this year, the AIA Consensus Construction Forecast Panel—consisting of leading economic forecasters—instead saw an acceleration in activity, projecting 4.0 percent growth in 2018 and a nearly equal 3.9 percent in 2019.

“At the halfway point of the year, this panel is even more optimistic,” said AIA Chief Economist Kermit Baker, Hon. AIA, PhD. “Their forecasts have been marked up to 4.7 percent growth in spending for this year and an additional 4.0 percent in 2019. If these projections materialize, by the end of next year the industry will have seen nine years of consecutive growth, and total spending on nonresidential buildings will be 5 percent greater—ignoring inflationary adjustments—than the last market peak of 2008.”

The AIA Consensus Construction Forecast panel is comprised of Dodge Data & Analytics, Wells Fargo Securities, LLC, IHS Economics, Moody’s Economy.com, ConstructConnect, Associated Builders & Contractors, and FMI. The forecast has been conducted for 18 years.

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Market Segment	Consensus Growth	Forecasts 2018	2019
Overall nonresidential building		4.7%	4.0%
<b>Commercial / industrial</b>		6.7%	3.4%
Hotels		7.9%	3.6%
Office space		6.6%	4.1%
Retail		6.3%	2.7%
Industrial		-0.1%	4.9%
<b>Institutional</b>		4.5%	4.5%
Public safety		10.9%	5.9%
Healthcare facilities		4.7%	4.4%
Education		4.0%	5.2%
Amusement / recreation		4.0%	2.8%
Religious		-4.1%	0.0%

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[Learn more about the Consensus Construction Forecast online.](#)

Source: American Institute of Architects, August 8, 2018

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## MARKETPLACE

### Builder Confidence Slips Two Points as Lumber Prices Soar

Builder confidence in the market for newly-built single-family homes fell two points to 68 in June on the National Association of Home Builders/Wells Fargo Housing Market Index (HMI). The decline was due in large part to sharply elevated lumber prices, although sentiment remains on solid footing.

“Builders are optimistic about housing market conditions as consumer demand continues to grow,” said NAHB Chairman Randy Noel, a custom home builder from LaPlace, La. “However, builders are increasingly concerned that tariffs placed on Canadian lumber and other imported products are hurting housing affordability. Record-high lumber prices have added nearly \$9,000 to the price of a new single-family home since January 2017.”

“Improved economic growth, continued job creation and solid housing demand should spur additional single-family construction in the months ahead,” said NAHB Chief Economist Robert Dietz. “However, builders do need access to lumber and other construction materials at reasonable costs in order to provide homes at competitive price points, particularly for the entry-level market where inventory is most needed.”

Derived from a monthly survey that NAHB has been conducting for 30 years, the NAHB/Wells Fargo Housing Market Index gauges builder perceptions of current single-family home sales and sales expectations for the next six months as “good,” “fair” or “poor.” The survey also asks builders to rate traffic of prospective buyers as “high to very high,” “average” or “low to very low.” Scores for each component are then used to calculate a seasonally adjusted index where any number over 50 indicates that more builders view conditions as good than poor.

All three HMI indexes inched down a single point in June. The index measuring current sales conditions fell to 75, the component gauging expectations in the next six months dropped to 76, and the metric charting buyer traffic edged down to 50.

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Looking at the three-month moving averages for regional HMI scores, the Northeast rose two points to 57 while the West and Midwest remained unchanged at 76 and 65, respectively. The South fell one point to 71.

Editor's Note: The NAHB/Wells Fargo Housing Market Index is strictly the product of NAHB Economics, and is not seen or influenced by any outside party prior to being released to the public. HMI tables can be found at [nahb.org/hmi](http://nahb.org/hmi). More information on housing statistics is also available at [housingeconomics.com](http://housingeconomics.com).

*Source: National Association of Home Builders, June 18, 2018*

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### AISI Standards Council Approves Formation of New Subcommittee on Composite Member Design and Seeks Experts to Participate

The American Iron and Steel Institute (AISI) Standards Council has approved the formation of a new subcommittee for composite member design and is seeking individuals to participate. The objective of "Subcommittee 34: Composite Member Design" is to develop and maintain design provisions for composite assemblies consisting of cold-formed steel members and concrete.

Membership on the subcommittee is open to individuals who may directly or materially be affected by the design provisions to be developed. The subcommittee is under the purview of AISI's Committee on Specifications for the Design of Cold-Formed Steel Structural Members (COS). It will be chaired by W. Samuel Easterling, professor and head of the Charles Edward Via Jr. Department of Civil and Environmental Engineering at Virginia Polytechnic and State University, and the Montague-Betts Professor of Structural Steel Design.

"There is a growing use for these types of composite assemblies in building construction," said Jay Larson, P.E., F.ASCE, managing director of AISI's Construction Technical Program. "AISI supports an open, balanced, consensus-driven process for codes and standards development. We are opening membership on this subcommittee to those currently involved in our Committee on Specifications as well as those who have never served on an AISI committee."

Larson noted that interested individuals are requested to fill out the form located at the bottom of this document and submit it to Helen Chen ([hchen@steel.org](mailto:hchen@steel.org)) by October 15, 2018. Selected individuals will be notified by October 30, 2018.

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AISI's Standards Council initiates cold-formed steel standards development projects and maintains accreditation by the American National Standards Institute (ANSI). The AISI Committee on Specifications is a consensus group whose mission is to improve the performance of cold-formed steel in structures through the development and use of improved analysis methods and design specifications. The group maintains and updates the *North American Specification for the Design of Cold-Formed Steel Structural Members* (AISI S100) and several other standards and test standards.

Source: American Iron And Steel Institute, September 11, 2018

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## MARKETPLACE

### AISI Publishes Cold-Formed Steel Design Manual 2017 Edition

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 American Specification for the Design of Cold-Formed Steel Structural Members, 2016 Edition* and the *Commentary*. The design manual consists of two volumes and is available for purchase as a set at AISI's online Steel Store at <https://shop.steel.org/c/41/manuals-and-design-guides>.

The *Cold-Formed Steel Design Manual, 2017 Edition* is available in both printed (AISI D100-17) and electronic formats (AISI D100-17E) and includes the following:

- Volume I covers dimensions and properties, beam design, column design, connections, supplementary information, and a bibliography of pertinent test methods.
- Volume II contains the *North American Specification for the Design of Cold-Formed Steel Structural Members, 2016 Edition* and the *Commentary*.

The design manual was developed under the direction of AISI's Education Committee. In this edition, new design examples have been added to further illustrate the Direct Strength Method provisions and newly added provisions in the Specification. A detailed list of the added examples and other major changes are provided in the online document "Major Changes in D100-17" ([click here](#)).

Source: American Iron And Steel Institute, June 13, 2018

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## MARKETPLACE

### AISI Updates Cold-Formed Steel Framing Design Standard

*New Version of AISI S201 Supersedes 2012 Edition*

The American Iron and Steel Institute (AISI) has updated AISI S201, *North American Standard for Cold-Formed Steel Framing – Product Data*, it was announced today. AISI S201-17 supersedes the previous edition, AISI S201-12. The standard has been approved by the American National Standards Institute (ANSI) and is available for downloading free of charge at [www.aisistandards.org](http://www.aisistandards.org).

“This new edition is largely the same as the 2012 edition; changes were simply made to update referenced documents and to make the scope of the standard consistent with other AISI cold-formed steel framing standards,” said Jay Larson, P.E., F.ASCE, Managing Director, Construction Technical Program. “The standard is intended to establish and encourage the production and use of standardized products in the United States, Canada and Mexico. The components covered in AISI S201-17 include C-shape studs, joists, track, U-channels, furring channels and angles.”

*Source: American Iron And Steel Institute, May 3, 2018*

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### New Home Sales Rise to Highest Level This Year

Sales of newly built, single-family homes rose 6.7 percent in May to a seasonally adjusted annual rate of 689,000 units after a downwardly revised April report, according to newly released data by the U.S. Department of Housing and Urban Development and the U.S. Census Bureau. This is the second-highest sales report since the Great Recession.

“Sales numbers continue to grow, spurred on by rising home equity, job growth and reports of a greater number of millennials entering the single-family housing market,” said NAHB Chairman Randy Noel, a custom home builder from LaPlace, La.

A new home sale occurs when a sales contract is signed or a deposit is accepted. The home can be in any stage of construction: not yet started, under construction or completed. In addition to adjusting for seasonal effects, the May reading of 689,000 units is the number of homes that would sell if this pace continued for the next 12 months.

The inventory of new homes for sale was 299,000 in May, which is a 5.2-month supply at the current sales pace. The median sales price was \$313,000.

“We saw a shift to more moderately priced home sales this month, which is an encouraging sign for newcomers to the market,” said NAHB Senior Economist Michael Neal. “Since the end of the Great Recession, inventory has tracked the pace of sales growth. While we expect continued gains in single-family housing production, inventory may be partially constrained by ongoing price increases for lumber and other construction materials.”

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Regionally, new home sales rose 17.9 percent in the South to a post-recession high and remained unchanged in the Midwest. Sales dropped 8.7 percent in the West and 10 percent in the Northeast.

*Source: National Association of Home Builders, June 25, 2018*

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### AISI Publishes New Test Standard

*AISI S919 completes the suite of 2017 Edition Standards*

The American Iron and Steel Institute (AISI) has published a new test standard in its S900-series—AISI S919-17, *Test Standard for Determining the Flexural Strength and Stiffness of Cold-Formed Steel Nonstructural Members*. The test standard has been approved by the American National Standards Institute (ANSI) as the American National Standard and is available for downloading free of charge at [www.aisistandards.org](http://www.aisistandards.org).

“This test standard was developed by AISI’s Committee on Specifications and is intended for adoption and use when performance testing of the cold-formed steel nonstructural member is required,” said Jay Larson, P.E., F.ASCE, Managing Director, Construction Technical Program. “It can be used to determine the nominal flexural strength (resistance) for both local buckling and distortional buckling failure modes. The test standard provides an alternative approach to evaluating the flexural strength and stiffness of nonstructural members.” Larson noted that AISI S919-17 completes AISI’s suite of 2017 Edition standards. Each standard is available for free download at [www.aisistandards.org](http://www.aisistandards.org).

AISI test standards are updated every five years and facilitate research and development leading to improved state-of-the-art solutions in steel for the construction market. They are often referenced in industry acceptance criteria, and lead the way in establishing the performance characteristics of unique products and applications.

*Source: American Iron And Steel Institute, May 8, 2018*

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### American Manufacturers Learn Canadian Building Codes

[Underwriters Laboratories](#) (UL)/CLEB sponsored a workshop at the [American Architectural Manufacturers Association](#) (AAMA) 2018 Summer Conference, clarifying what U.S. manufacturers need to know about Canadian codes, especially the Canadian Standards Association (CSA) A440S1-17, *Canadian Supplement to the North American Fenestration Standard (NAFS)-11*.

Robert Jutras, principal engineer, led the overview, touching on Canadian building codes, including codes for building envelopes and fenestration.

He started by explaining how Canadian building codes are broken down into four model codes:

- *National Building Code (NBC)*;
- *National Plumbing Code (NPC)*;
- *National Fire Code (NFC)*; and
- *National Energy Code for Buildings (NECB)*.

He also said, in Canada, codes are not divided by usage, like commercial or residential, or even by occupancy, as they are in the United States. Instead, codes are divided by size. Jutras also compared U.S. and Canadian codes, and discussed how manufacturers are impacted by the Canadian supplement.

“In the United States, NAFS certification is usually required, but in Canada, only NAFS testing is required,” said Jutras.

The Canadian supplement to NAFS covers climatic data specific to the determination of performance requirements; a process to determine performance requirements and product selection; and specific performance requirements. Jutras recommended using the Fenestration Canada performance calculator, a tool offered by the organization.

Source: *the construction Specifier*, June 25, 2018

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### AISI Publishes New Report on Thermal Analysis of Cold-Formed Steel Wall Assemblies

The American Iron and Steel Institute (AISI) has published the findings from research conducted to support the development of a calculation methodology for determining the U-factors and R-values for wall assemblies containing cold-formed steel. The research project was conducted by Morrison Hershfield Ltd (MH) and involved detailed thermal modeling simulations of 27 steel stud assemblies which varied by insulation thickness, insulation placement and steel stud depth. A summary of the project, findings and analysis are published in “RP18-1: Thermal Analysis of Cold-Formed Steel Wall Assemblies.”

To make cold-formed steel design more efficient for building construction professionals, AISI is in the process of developing a consensus standard that contains simplified calculation methodologies for determining the thermal performance of generic cold-formed steel assemblies. Current methodologies for making these calculations vary depending on the code, standard or guide being used, and this consensus standard is intended to serve as the primary source for evaluating the overall thermal resistance of cold-formed steel-framed assemblies. The methodologies can also include either simplified hand calculation methods or more complex methods such as hot box testing, 2D and 3D thermal modeling approaches that may not be widely available or practical to conduct in every situation.

“Our goal is to use the data gathered from this research project to develop a practical means of calculating U-factors for these assemblies without the direct need for additional software or testing apparatus and to provide greater accuracy in results over current simplified methods,” said Jay Larson, P.E., managing director of AISI’s Construction Technical Program. “A new calculation methodology will save time and costs for engineers and designers while ensuring that cold-formed steel framing remains a competitive option for mid-rise building construction.”

Source: American Iron And Steel Institute, March 20, 2018

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## MARKETPLACE

### Metals and Lumber Prices Hit Double-Digit Increases

Construction costs continued to accelerate in May with double-digit increases for a range of building and road materials, including many that are subject to newly proposed tariffs that could drive prices even higher, reports the [Associated General Contractors of America](#) (AGC).

“Prices jumped at double-digit annual rates for metals, lumber and plywood, and diesel fuel, while ready-mixed concrete, asphalt paving, and roofing materials also had unusually large increases,” said Ken Simonson, AGC’s chief economist. “The cost of all goods used in construction rose 8.8 percent from May 2017 to May 2018, the steepest annual increase in nearly seven years.”

The analysis stems from data reported by the AGC’s Labor Department, which shows a consistent rise in producer price index (PPI) for many construction materials from May 2017 to May 2018, including:

- aluminum mill shapes (17.3 percent);
- lumber and plywood (13.9 percent);
- copper and brass mill shapes (13.8 percent); and
- steel mill products (10.5 percent).

AGC also reported a sharp increase in many associated construction inputs during this period, including:

- diesel fuel (44.5 percent);
- asphalt felts and coatings (8.9 percent);
- ready-mixed concrete (6.5 percent); and
- paving mixtures and blocks (5.2 percent).

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“These increases far outstripped the 4.2 percent rise in the price index for new construction, implying that contractors are facing a severe squeeze on costs for both ongoing and new projects,” said Simonson. “Moreover, tariffs imposed on steel and aluminum since this data was collected in mid-May are likely to drive contractors’ costs still higher.”

The U.S. government imposed steel and aluminum tariffs on imports from Canada, Mexico, and the European Union on May 31, with the impact from these tariffs not yet reflected in the available data. Construction officials note these tariffs have triggered a surge of orders, which mills say exceeds their current capacity. This could result in construction delays, budget problems, and potential cancellations for future projects, says AGC.

“Considering the impact the mere threat of tariffs have had on materials prices and demand, prices are likely to increase further as the new trade restrictions come online,” said Stephen E. Sandherr, the association’s CEO. “Forcing contractors to pay more for materials and wait longer to receive them will make construction more costly and slower.”

To view the PPIs, [click here](#).

Source: *the construction Specifier*, June 25, 2018

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### AIA 2030 Commitment Invites Engineers

Program supports path to designing carbon-neutral buildings by 2030.

**WASHINGTON – June 20, 2018** – Engineers can now join architects in signing up for The American Institute of Architects (AIA) 2030 Commitment to measure progress towards reducing energy and carbon in the design of buildings.

The program provides a framework of energy targets, metrics and a comprehensive data tool that allows signatories to the commitment to track progress towards net zero carbon by 2030. Currently there are 522 [firms signed onto](#) the 2030 Commitment. Last year, the program had 21 percent more firms actively engaged in the program and sharing annual data.

By committing and participating in the program, firms directly support the [AIA's position that architects](#) can—and should—mitigate the effects of climate change through policy advocacy, education, and energy modeling.

“Progress towards our 2030 goals will be more efficient by developing shared targets early and across the design team,” said 2030 Working Group Co-Chair Nate Kipnis, FAIA. “Architects want to work with engineers that are working towards these shared goals through the 2030 Commitment’s tools and framework. We look forward to working with engineers to meet these challenging and important goals.”

The [AIA Conference on Architecture 2018 \(A'18\)](#) taking place June 21-23 in New York, will feature five sessions devoted to educating architects on how and why their participation in the 2030 Commitment is vital to the future of the built environment.

Sessions include:

- 8 a.m., Wednesday, June 20: [Getting to 2030: Project Delivery Methodology for the Future](#)

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## UPCOMING EVENTS

**October 11, 2018**  
CFSEI Webinar on CFSF- Design with the AISI Direct Strength Method  
1:30 p.m. Eastern Time  
[More](#)

**October 1-3, 2018**  
New England Building Officials Conference  
[More](#)



- 8:45 a.m., Thursday, June 21: [The Power of Numbers: Big Data & Portfolio Performance](#)
- 7:30 a.m., Friday, June 22: [ArchiTalk: True Confessions: Why We're Not Meeting Our Energy Goals \(and What to Do About It\)](#)
- 9:45 a.m., Saturday, June 23: [S, M, L, XL— 2030 Commitment in All Sizes!](#)
- 1:45 p.m., Saturday June 23: [Planning, Action, Impact: Firm Action Plans for Carbon Neutrality](#)

## HEADQUARTERS

Steel Framing Alliance  
25 Massachusetts Avenue, NW  
Suite 800  
Washington, DC 20001  
Tel: 800-797-8335

## NEW MEMBERS

- AES Group LLC
- Atlas Building Systems
- Bruce Arenales
- Buehler & Buehler Structural Engineers, Inc.
- CADSA
- Ceco Building Systems
- CFS Structures, Inc.
- Clark Pacific
- Dev Structural
- Greg Higgins, Architect
- GTech Engineering Corporation
- Hi-tech Building Solution Inc
- Hooku Consulting Engineers LLC
- Integrity Structural Corp
- Kattera
- Lalonde Engineering Inc
- Leekor Engineering, Inc.
- Manni Green Tech, Inc.
- MJS Contracting Inc
- MKM Consulting Pvt. Ltd.
- MKS Building Systems, LLC
- New Millennium Building Systems
- RDHammond Consulting Engineering, LLC
- Smislova Kehnemui & Associates
- Studio NYL
- Sullivan & Associates LLC
- Swenson Say Faget
- Systems Control
- WoodChuck Engineering

The AIA will host a reception at A'18 to celebrate the value of the 2030 Commitment, the importance of collaboration with engineers and allied organizations, and the need for broad adoption of strong energy codes. The American Society of Heating, Refrigerating and Air-Conditioning Engineers ([ASHRAE](#)) president Bjarne W. Olesen, Ph.D will be a special guest speaker at the event.

“ASHRAE members remain committed to developing new standards through research and facilitating the use of new technologies through training,” said Olesen. “We value the partnerships established through the 2030 Commitment and look forward to continuing our work to advance human well-being through sustainable technology.”

2030 Commitment goals are also supported by [Autodesk](#), which funded the [AIA+2030](#) educational series and improved [connections between the Design Data Exchange \(DDx\)](#) and energy modeling tools such as Autodesk Insight for Revit. Autodesk has dedicated additional funding to the program in an effort to continue its expansion and to make it even easier to integrate energy modeling data with the DDx. “Autodesk is extremely pleased that engineers can now participate in the 2030 Commitment with architects to work collaboratively towards carbon-neutral goals,” said Autodesk MEP and Building Performance Analysis Senior Product Line Manager Ian Molloy. “Meeting the Commitment, using energy analysis tools such as Autodesk Insight, and leveraging the DDx to report on progress, represents clear practical action that architects and engineers can take as part of a collaborative and integrated Building Information Modeling process to deliver top performing buildings.”

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September 2018

Architects, engineers, and firm leaders interested in participating in the 2030 Commitment can learn more [on AIA's website](#).

*Source: American Institute of Architects, June 20, 2018*

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## MARKETPLACE

### Fire Hazards Workshop Singles Out Construction Materials for More Research

A recent workshop on fire properties of materials concluded cross-laminated timber (CLT) and insulation applied to the exteriors of high-rise buildings are among the materials most in need of urgent research and development. Organized by the [National Institute of Standards and Technology](#) (NIST), the fire workshop brought together key stakeholders from industry, government, academia, and public laboratories. It also resulted in a new [research roadmap](#).

A strategy for reducing the thousands of deaths and injuries and billions of dollars in damage resulting from the more than a million fires each year in the United States is detailed in the roadmap. It provides guidelines for developing science-based approaches to solving fire problems for multiple materials.

The workshop participants agreed the highest priority for future scientific studies and development projects in flammability should go to cross-cutting research approaches that can work against multiple hazards across a wide range of materials and applications. These are:

- **Real fire behaviors:** To understand how the actual use of a product impacts its fire service-life (the fire resistance over the life of a product) and burning behavior;
- **Engineered fire-safe products:** To enable the development of technologies yielding products compliant with flammability regulations for their entire lifetime; and
- **Bench-scale and computational tools:** To develop and use physical testing methods and computer modeling systems that accurately predicts a material's real-life fire behavior.

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The new roadmap strongly recommends these research approaches be applied to the five most critical and urgent fire hazards including:

- residential upholstered furniture;
- residential buildings in wildland urban interface (WUI) communities;
- timber used for multistory buildings;
- passenger railway cars; and
- insulation applied to the exteriors of high-rise buildings.

“The workshop participants determined these application areas should be prioritized for R&D because reducing flammability in all five should significantly reduce the overall losses from fires in the future,” said NIST materials research engineer [Rick Davis](#), one of the authors.

NIST has already begun putting the new roadmap to work, added Davis.

“Based on extensive discussions with our in-house experts after considering the roadmap’s guidelines, we are planning changes in our upcoming year’s research and modifying our long-term strategies.”

More information on NIST’s efforts to reduce flammability is available [online](#).

Source: *the construction Specifier*, June 8, 2018

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