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Upcoming Events

- Wall Stud Design Seminar:
Rosemont Oct. 3
Rosemont, IL
www.steel framing.org
- METALCON international
Trade Show and Seminars Oct. 4-6
Rosemont, IL
www.metalcon.com
- LGSEA General Membership Mtg.
Noon – 1:30 pm Oct. 5
Rosemont, IL (at METALCON)
- Fire, Sound, & Thermal
COFS Mtg. Oct. 7
Rosemont, IL (at METALCON)
jhumble@steel.org
- CCFSS Short Course Oct. 18-20
St. Louis, MO
ccfss@umr.edu
- Structural Engineers Association of TX
CFS presentation Oct. 21
Dallas, TX
www.seaot.org
- Wall Stud Design Seminar Dec. 12
Tampa, FL (with FL CEU)
www.steel framing.org
- Wall Stud Design Seminar Dec. 13
Orlando, FL (with FL CEU)
www.steel framing.org
- Wall Stud Design Seminar Dec. 14
(In conjunction w/ Atlanta/SE Chap. Mtg.)
Atlanta, GA
www.steel framing.org

AISI Publishes Code of Standard Practice

By Jeffrey M. Klaiman
Senior Associate
ADTEK Engineers, Inc.

It has taken a few years, but the new AISI Code of Standard Practice (COSP) has finally become a reality. Officially released to the public on September 8, this document has been a labor of love for many members of the AISI Committee on Framing Standards and will be a welcome new addition to the growing library of information for the cold-formed steel industry. It is now available for free download from the SFA website (www.steel framing.org), and soon will be available on other websites as well.

The purpose of this document is to help define the roles of the owner’s representative, architect of record, engineer of record, specialty engineer, manufacturer, framing contractor and truss/wall panel supplier in the design and construction of cold-formed steel framed structural systems. It is drawn from similar publications by the American Institute of Steel Construction and the Steel



Joist Institute, as well as documents from Wood Truss and Component Association and the Truss Plate Institute. Among the many topics covered in the Code of Standard Practice are contract documents, dealing with discrepancies, approval of instal-

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**LGSEA and SFA Leadership
Make Statement on Katrina Relief Efforts**

On September 7, Wei Pei, Chairman of the Interim Board of the LGSEA Council, released a statement along with SFA President Larry Williams, on the industry’s response to the recovery and relief efforts for hurricane Katrina. With thousands of homes and businesses destroyed and families displaced, the LGSEA Council and the SFA are working to develop a coordinated industry response. Excerpts from the text of the statement follow:

“On behalf of our over 1,000 SFA and LGSEA Council members worldwide, the Steel Framing Alliance and the Light Gauge Steel Engineers Association (a Council of the Steel Framing Alliance)

extend their condolences to the victims of Hurricane Katrina. We join with the nation in sorrow over the magnitude of the loss and suffering, and pledge our support to help restore the well-being of the affected states.

“As the relief effort for this tragic event unfolds over the coming weeks and months, there will be many opportunities for SFA and its members to assist. We are consulting with technical experts on the possibility of deployment of a technical assessment team to the disaster area, and will be organizing a committee that will provide an organized industry response

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LGSEA Atlanta/Southeast Chapter Becomes Steel Framing Alliance's First Chapter

In a historic vote on September 7, the board of Directors of the Atlanta/Southeast Chapter of the LGSEA voted to become a chapter of the Steel Framing Alliance (SFA). The significance of this move is that up until this time, local groups affiliated with the SFA had been separate alliances, with their own by-laws, budgets, and boards. As a Chapter, the group will have much the same role as it did as a chapter of the LGSEA. "I think this will be best for our membership and better reflects the active participants in our group" said Eric Jacobson, president of the Atlanta/Southeast chapter. "When you look at our active membership, only about half of the individuals that attend our meetings have been registered engineers. Other participants have been manufacturers of steel products, truss and panel fabricators, distributors sales representatives, and individuals involved in the

steel framing industry."

On September 8, the new chapter held a scheduled meeting and luncheon presentation. At the meeting, both Jacobson and SFA president Larry Williams explained how the new chapter would fit into the overall organization of the SFA and LGSEA, and how members would still have the benefit of engineering programs, publications, and resources. Don Allen, Secretary of the LGSEA, was on hand as the keynote speaker, but also fielded questions about the transition. "I feel very good about what the chapter has done, and about the prospects for steel framing education and development in my home region, and state" said Allen. "I know several of the board members here quite well, and understand their desire to keep the engineering community informed and engaged: there is a real need to educate technical professionals across the region. I'm glad they understand that by becoming a chapter of SFA, they are not sacrificing this engineering

education, but are expanding their resources, as well as the resources for others involved in the industry, such as builders, suppliers, and manufacturers." Allen was the founding President of the original Atlanta/Southeast LGSEA chapter, and has been an active participant ever since.

There are still several details to be worked out with the transition, and assignments were made for specific tasks during the board meeting on the 7th. Chapter members will be kept informed as new by-laws are developed, and as programs are announced for the upcoming year. The next scheduled program for the chapter will be on December 14, where John Lyons will give a presentation on the new Code of Standard Practice (see article, page 3.) This presentation will be in conjunction with a full-day presentation by Dr. Roger LaBoube and Don Allen on the Wall Stud Standard. For more information on both of these presentations, see Education section of the SFA website, at www.steel framing.org.

Newsletter for the Light Gauge
Steel Engineers Association



**A Council of the
Steel Framing Alliance**

Newsletter Editor: Ray Graze

Membership Information

To receive the LGSEA Newsletter,
Technical Notes, and other benefits of
the LGSEA, call toll-free:
866-GO-LGSEA (866-465-4732).
www.LGSEA.com

The LGSEA Newsletter is published by LGSEA

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LGSEA and SFA Leadership Make Statement on Katrina Relief Efforts

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to this disaster. If you would like to participate on that committee, please contact Alan MacQuoid at macquoid@aol.com.

"Currently, the focus is on humanitarian aid and the greatest need is for financial contributions. You may make contributions to the hurricane victims directly through the Red Cross at <http://www.redcross.org/>.

"We are attempting to ask SFA and LGSEA Council members in the affected region to help us identify specific housing, framing, and construction needs so that we can better provide assistance. Steel framing may play a role in filling the short-term and immediate housing needs of the area. However, due to the Formosan termite infestation in the region hit hardest by the storm, it is likely that much of the long-term rebuilding effort can and will involve cold-formed steel framing, along with other termite resistant materials. (For more informa-

tion about the termite infestations in and around Louisiana and the Gulf Coast, visit <http://www.agctr.lsu.edu/termites/>.)

"We understand that the construction product industry and engineering professionals will play a leading role in restoring and rebuilding the region's devastated infrastructure. We want to cooperate with local members and authorities to support any efforts you undertake. By combining our resources and sharing our knowledge, we can work together to address the immediate and long-term housing, shelter, and rebuilding needs of this devastated region."

In related news, Alan MacQuoid has volunteered to lead the SFA/LGSEA task group that will be coordinating the relief efforts. MacQuoid is a former President of Angeles Metals, and was instrumental in the formation and growth of the LGSEA Europe chapter. He was involved in part

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News Briefs

Center for Cold-Formed Steel Structures Short Course: October 18-20

In just a few weeks, the Center for Cold-Formed Steel Structures (CCFSS) will hold their 19th biannual Short Course for Cold-Formed Steel Structures in St. Louis, MO. This highly technical course is not limited to framing, but includes the basics of cold-formed steel design as it applies to all structures: deck, racks, metal buildings, and steel framing. Don Allen will present a session on the third day covering the new standards for steel framing, and how they tie in to the North American Specification for the Design of Cold-Formed Steel Structures. A total of 24 professional development hours are available (2.4 continuing education units) for engineers and architects. A highlight of the course will be a field trip to Gateway Panel, to see steel-framed panel assembly in progress. Instructors include Dr. Roger A. LaBoube, Distinguished Teaching Professor of Civil Engineering, University of Missouri-Rolla; and Dr. Wei-Wen Yu, Curators' Professor Emeritus of Civil Engineering, University of Missouri-Rolla. Call 573-341-4471 or ccfss@umr.edu for registration or additional information.

COFS Lateral Task Group holds special meeting in San Francisco

The Lateral Design Task Group of the AISI Committee on Framing Standards (COFS) held a special meeting on August 3 in South San Francisco. Special reports were presented by Colin Rogers of McGill University, and Kelly Cobeen of Kelly Cobeen Structural Engineers. After hearing the reports, members of the task group and industry experts reviewed the information presented, as well as the content of the recently released *Standard for Cold-Formed Steel Framing – Lateral Design* (AISI © 2004). Recommendations were made as to future research,

and an action plan was developed for the COFS Lateral Design Task Group. Key progress was made in incorporating the research results from McGill University into the standard, as well as the development of a North American lateral design standard. The next face-to-face meeting of the group is planned for November 30, 2005, in the Chicago area. Contact Hank Martin hmartin@steel.org or Jay Larson jl Larson@steel.org for additional information.

Committee on Framing Standards meetings held in Baltimore

On September 13-14, the AISI Committee on Framing Standards (COFS) held their semi-annual committee and task group meetings at the Embassy Suites Hotel near the Baltimore-Washington International Airport. Over 30 individuals participated in the meetings, where key progress was made on converting several of the current Standards for Cold-Formed Steel Framing from US-only documents to North American documents, to include acceptance by code bodies in Canada and Mexico. Existing standards were reviewed and updated, and progress was made on new and con-

sidered standards, including the Product Standard: a document envisioned to help standardize the stud, track, channel and angle members commonly used in framing applications. In addition to the main committee meeting, four task groups and six subcommittee meetings were held, with over 30 individuals participating. The next series of COFS meetings is planned for April, 2006. For additional information, or to join the COFS, contact Jay Larson at jl Larson@steel.org.

COFS Fire, Sound, and Thermal Task Group agenda announced

The AISI Committee on Framing Standards (COFS) announced the program for the upcoming Fire, Sound, and Thermal (FST) Task Group meetings, to be held in conjunction with METALCON on Friday, October 7, at the Donald Stephens Convention Center in Rosemont, Illinois. During the 8am – noon meeting, reports will be presented on area separation wall fire endurance tests, 1- and 2-hour floor assemblies, National Research Center of Canada Engineering Analysis and Acoustic Calculator, and state and re-

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Welcome to the Steel Framing Alliance Family!

The team at SFA welcomes LGSEA members and staff.
Thank you for supporting the steel framing effort and community!

As members of the steel framing community, you understand the need for good, experienced designers, and having the resources you need to get the job done. The SFA is committed to supporting the engineers that make up the LGSEA, as well as providing products and services that support the goals and mission of the LGSEA. Welcome aboard!



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LGSEA Mission: To enable and encourage the efficient design of safe and cost effective cold-formed steel (CFS) framed structures.

Bridging Design: Moving Section D4 of the Specification

The 2001 North American Specification for the Design of Cold-Formed Steel Structures (NASPEC) is the standard adopted by the 2003 International Building Code (IBC) and the NFPA 5000. The 2004 Addendum to the NASPEC removes the sheathing braced design provisions, but still permits “sheathing braced design in accordance with an appropriate theory, tests, or rational engineering analysis.” Several of the provisions for sheathing braced design, now permitted but not explicitly spelled out in the NASPEC, appear in the new “Standard for Cold-Formed Steel Framing – Wall Stud Design” (©2004 AISI) in section C3. Section C3 requires the following for sheathing braced design:

- The engineering drawings must identify the sheathing as a structural element.
- Alterations to the sheathing must be reviewed and approved by an engineer.
- The wall stud shall be evaluated without the sheathing bracing, for the following load combination: $1.2D + (0.5L \text{ or } 0.2S) + 0.2W$. (Equation C3-1)
- This is in addition to other combinations required by the applicable building code. Note that this is a load resistance factor design (LRFD) combination, but may conservatively be used for allowable stress design (ASD).
- Wall stud assemblies using sheathing braced design shall assume identical sheathing attached to both flanges, and connected to the top and bottom tracks. This is to provide lateral and torsional support to the stud in the plane of the wall.
- Wall studs with dissimilar sheathing are permitted; but design must be based on the assumption that the weaker of the two sheathings is attached to both sides.
- For axially loaded studs, to prevent failure of the sheathing to stud connection, the maximum nominal axial load in the wall stud shall be limited to the values given in table C3.2-1 (right).

The following example shows how the wall stud standard may be used for sheathing braced design of a wall stud. Note that this example is covered in detail in the LGSEA/SFA seminar, “Wall Stud Design.” Seminar dates and locations are listed on the cover of this newsletter.

Example:

Given:

- Interior partition, 9’ tall
- Axial load = 4.3 kips per linear foot of wall
- Stud depth is 3 5/8”.
- Stud spacing, bracing, and thickness are up to you, the designer.

Can sheathing braced design be used? What member is required, at what spacing?

1. Pick a sheathing type and screw size:

- For interior non-rated wall, framers will most likely use 1/2” gypsum board with #6 screws.

2. Calculate spacing:

- Based on table C3.2-1 (below), maximum permissible axial load = 5.8k/stud.
- Spacing = 5.8k/stud, divided by 4.3k/foot
- this equals 1.35 ft per stud, maximum spacing; therefore
- 16” on center stud spacing is acceptable.

3. Calculate axial load per stud based on 16” stud spacing:

- Axial load per stud = 4.3 k/ft x 1.33 ft = 5.72k

4. Now check stud using software:

- Any of several commercially available software packages can be used, inputting the following information, and choosing from standard SSMA or other member shape files.
- $L_x = 9'-0''$
- $L_y = L_t = 24''$ (twice the fastener spacing.) Note that this value is used since it is possible that a framer may miss the stud with one of the fasteners, or the connection could be ineffective because the screw strips out.
- K_x, K_y, K_t taken as 1.0 (Wall Stud Standard, section C3.2)
- Applied bending moment, based on 5 psf, = 0.81 in-k.

5. Using the above inputs, Capacity of 362S200-54 = 5.9k. A 362S200-54 at 16” on center appears to work, based on what we have done so far.

For the same condition, what if alignment or other requirements forced us to space studs at 24” on center? Could we still use sheathing braced design, and a heavier, or deeper, stud?

6. Check axial load, based on a spacing of 24” on center.

- 4.3 kips per foot x 2’ on center = 8.6 kips per stud.
- Table C3.2-1 does not permit loads greater than 7.8 kips per stud, even if heavier gypsum sheathing or larger screws were used.
- Possibly a wood based sheathing could be used, but this may not be practical for an interior partition. The commentary of the Wall Stud Standard gives a methodology for calculating capacity with wood sheathing bracing.

7. One more required check: load combination without any bracing from the sheathing:

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Table C3.2-1: Maximum Axial Load Limited by Gypsum Sheathing-to-Wall Stud Connection Capacity

Gypsum Sheathing	Screw Size	Maximum Nominal Stud Axial Load
1/2 inch	No. 6	5.8 kips (25.8 kN)
1/2 inch	No. 8	6.7 kips (29.8 kN)
5/8 inch	No. 6	6.8 kips (30.2 kN)
5/8 inch	No. 8	7.8 kips (34.7 kN)

News Briefs, continued

COFS Fire, Sound, and Thermal Task Group agenda

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gional energy codes update. During the afternoon of October 7, a special meeting concerning FST truss issues will be held. Presentations will be made on the history of issues in fire ratings related to trusses, including both wood and steel truss assemblies. Kirk Grundal, of the

Wood Truss and Component Association, will be on hand to give part of the presentation, and update the committee on the efforts of the WTCA and other groups to gather and disseminate information on fire and thermal performance of truss assemblies. The FST committees are looking for wider industry participation, as well as volunteers to help with committee programs and planning. All interested parties are welcome to attend. Contact Jonathan Humble at jhumble@steel.org if you are interested in volunteering or to learn more.

If you or your organization have technical or newsworthy items you feel would be of interest to LGSEA Council members, consider submitting articles for publication in the LGSEA newsletter. All submissions are subject to review and editing. Contact Ray Grage, P. E., Newsletter Editor at rgrage@elixirsteel framing.com, or Don Allen, Newsletter Staff, at dallen@steel framing.org.

AISI Publishes Code of Standard Practice

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lating drawings, material characteristics, erection and installation, quality control and contractual relations.

The COSP has gone through many revisions in its creation, along with reviews by members of the Association of Wall and Ceiling Industries (AWCI), American Institute of Architects (AIA), Steel Framing Alliance (SFA), Steel Stud Manufacturers Association (SSMA), Steel Truss and Component Association, and LGSEA Council. In fact, The SFA and SSMA have each given it an official endorsement, while the AWCI board is set to review it at its next meeting and is expected to also offer its official endorsement.

A formal presentation of this new document is scheduled to be conducted at METALCON from 8:30 to 10:00 on Tuesday October 4 (program TU05). The presenters will introduce the many facets of the Code of Standard Practice, as well as use some typical examples from their experience in cold-formed framing to illustrate the potential uses in actual construction projects and contracts.

After many years of doing without a standard practice document, the cold-formed steel framing industry has a publication to help answer the age old question of "Who is responsible for what?" in cold-formed framing. Since this is only the first publishing, expect to see future versions build upon this one, to further strengthen

our industry and protect all parties involved in cold-formed framing. An Adobe Acrobat (pdf) version of the document is available for free download at www.steel framing.org. If you wish to order a paper copy of the document, call 1-800-79 STEEL. If you have comments about the document, or wish to participate in future updates, contact Jay Larson at jl Larson@steel.org.

Katrina Relief Efforts

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of the emergency response to the Kobe earthquake, and therefore understands some of the unique challenges for this type of effort. A meeting of this task group has been scheduled for 10:15 am on Thursday, October 6 at METALCON, in Room One of the Donald Stephens Convention Center, for those interested in working with the steel framing industry and Alan on this effort.

Bridging Design: Moving Section D4

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- Wall Stud Standard Equation C3-1: $1.2D + (0.5L \text{ or } 0.2S) + 0.2W$ (LRFD)
 - Based on this: factored axial load = 3.53k
 - Factored moment = 0.16 in-k
 - $L_x, L_y, L_t = 9'-0"$
 - From typical software program, maximum interaction is 1.4 (greater than the permitted 1.0 value.)
8. At this point, the options are:
- Check a heavier and/or thicker stud with this same loading
 - Recheck same member with smaller spacing, or double members back-to-back.
 - Check an all steel design, with steel bracing
9. Check using same stud with 12" on center spacing:
- factored axial load = 2.65k
 - Factored moment = 0.12 in-k
 - $L_x, L_y, L_t = 9'-0"$
 - From typical software program, maximum interaction is very close to 1.0.

Therefore, use 362S200-54 at 12" on center, or doubled back-to-back at 24" on center. Make sure that the top track or other load distribution member is able to collect the 4.3 k/ft load and deliver it to each stud.

LGSEA Council General Membership Meeting at METALCON

METALCON International is slated for October 4-6, 2005, at the Donald Stephens Convention Center in Rosemont, IL. This three-day series of seminars, educational events, exhibits, and networking sessions will give LGSEA Council members a unique opportunity to learn more about the framing industry, as well as network with others in steel framing design and construction. The key meeting for LGSEA Council members will be a luncheon and awards presentation on Wednesday, October 5, from noon until 1:30 pm. This meeting will include an awards luncheon, the installation of the new officers in the LGSEA, and a review of present and future technical documents and seminars in development. Technical task groups will report at this meeting, rather than having separate committee meetings during the day. This should allow LGSEA members to participate in more of the seminars and networking events that are a part of the METALCON experience.

Wednesday evening, the Steel

Framing Alliance (SFA) will hold their Fall Forum, and as new SFA members, all LGSEA members are invited. There will be a special portion of the program reporting on the LGSEA activities, and how the integration of the LGSEA and SFA is progressing. A full schedule of framing-related seminars and events is included in this newsletter; an updated list is posted at www.steel framing.org, and will updated as meeting room assignments are available.

Look below for some of the framing-related seminars that are also avail-

able for a nominal fee. Multi-seminar and early-bird discounts are available.

To sign up for the LGSEA luncheon, members should send a reply email or call to Rose Kuria at rkuria@steel framing.org or 800 79 STEEL to get on the reservation list. For LGSEA and SFA members and guests, the luncheon is \$35; non-members and those without reservations (walk-up), \$45. If possible, make reservations by noon on Friday, September 30. To sign up for the SFA Fall Forum, contact Janice Duncan at jduncan@steel framing.org.

2005 METALCON Meetings and Seminars for the Steel Framing Industry

Time	Event	Location ¹	Sponsor
Saturday, October 1			
1:00pm – 4:00pm	STUD University: both 101 and 201 courses	show floor	SFA
5:00 pm	STUD University welcome Dinner, sponsored by SSMA	Hyatt	SFA & SSMA
Sunday, October 2			
9:00am – 4:00pm	STUD University: both 101 and 201 courses (location also in rm. 11)	show floor	SFA
Monday, October 3			
8:00am – 4:00pm	SP1 Seminar: Design of Wall Systems	Room 14	SFA/CCFSS
9:00am – 4:00pm	STUD University: both 101 and 201 courses	show floor	SFA
Tuesday, October 4 Show Floor Hours: 12:00 Noon – 5:00 pm			
7:30am – noon	SSMA Board of Directors Meeting	Room 8	SSMA
8:30am – 10:00am	TU05 Seminar: Code of Standard Practice for Steel Framing	Room 14	SFA
8:30am – 10:00am	TU06 Seminar: Introduction to Cold-Formed Steel Framing	Room 12	SFA
10:15am – 11:45am	TU11 Seminar: Can CFS Panelization Work for You?	Room 12	SFA
10:15am – 11:45am	TU12 Seminar: Cold-Formed Steel Shearwall Assemblies & Connx.	Room 3	SFA
2:00pm – 4:00pm	SFA / LGSEA Meeting: Technology Development Committee	Room 6	SFA/LGSEA
4:00pm – 6:00pm	LGSEA Board Meeting	Room 6	SFA/LGSEA
Wednesday, October 5 Show Floor Hours: 12:00 Noon – 5:00 pm			
8:00am – noon	Steel Framing Alliance Operating Team Meeting	Room 6	SFA
8:30am – 10:00am	WE17 Seminar: Steel Stud Brick Veneer Wall Systems	Room 10	SFA
8:30am – 10:00am	WE18 Seminar: It's All About Cold-Formed Steel Floors	Room 14	SFA
10:15am – 11:45am	WE23 Seminar: Loadbearing Mid-Rise Construction with CFS	Room 12	SFA
10:15am – 11:45am	WE24 Seminar: CFS Trusses: Understanding Today's Market	Room 10	SFA
noon – 1:30pm	LGSEA General Membership Meeting and Awards Luncheon	Room 8	SFA/LGSEA
1:00pm – 5:00pm	Steel Framing Alliance Board of Directors Meeting	Room 6	SFA
5:00pm – 7:00pm	Steel Framing Alliance Fall Forum	Hyatt	SFA
Thursday, October 6 Show Floor Hours: 10:00 am – 3:00 pm			
8:30am – 10:00am	TH25 Keynote Address: Economic Benefits of Green Building	Room 1&2	MCA
8:30am – 9:30am	SFA Ambassador Program Kickoff Meeting	Room 6	SFA/LGSEA
10:15am – 11:45am	SP6: Code Official / Plan Examiner / Building Inspector: Be our Guest!	Room 1&2	SFA
10:15am – 11:45am	TH31 Seminar: Curved Surface Framing Techniques with Steel	Room 33	SFA
10:00am – 12:00pm	Katrina Relief Coordination Meeting	Room 6	SFA/AISI
Friday, October 7			
8:00am – noon	Fire, Sound, and Thermal Task Group Meeting	Hyatt, Murfield Rm.	COFS/SFA
1:00pm – 5:00pm	Fire, Sound, and Thermal Truss Task Group Meeting	Hyatt, Murfield Rm.	COFS/SFA

1. Locations are in the Donald E. Stephens Convention Center (5555 N. River Rd.; Rosemont, IL 60018) unless noted otherwise. Locations subject to change; see sponsor website and signs at show for updated information.



SSMA
WWW.SSMA.COM

**STEEL STUD
MANUFACTURERS
ASSOCIATION**

*Standardizing the Cold-Formed
Steel Industry*

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DIETRICH METAL FRAMING UNVEILS NEW METAL FRAMING CLIP, CONNECTOR AND FRAMING HARDWARE CATALOG

144-Page Guide Contains Design Data for Architects, Engineers

Dietrich Metal Framing, a Worthington Industries Company has unveiled a new Metal Framing Clip, Connector and Framing Hardware catalog. The 144-page guide details the company's complete line of light gauge framing clips and connectors.

Most significantly, for architects, engineers and others involved in the specification of building products, the catalog contains:

- Comprehensive load tables and engineering data for every clip and connector Dietrich Metal Framing offers.



- Load table data for multiple fastening options, including welding, power-driven fastening, and screw connections to assist in determining the most efficient fastening method.
- Detailed fastening instructions including fastening patterns to achieve various levels of performance based on condition requirements. Product illustrations and application drawings also are provided.
- An overview and highlight of each product, including full-color renderings and a review of each product's features and benefits.
- A comprehensive index and quick reference guide.
- Downloadable CAD details available in .dwg, .dxf, and .pdf file types on www.dietrichmetalframing.com.

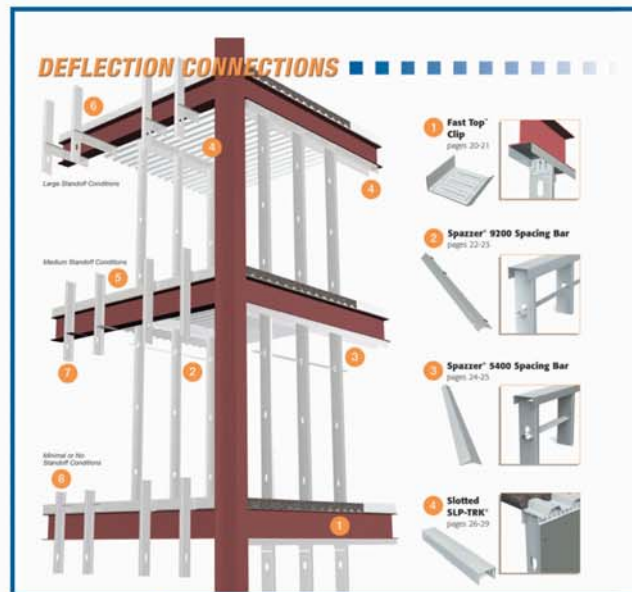
In addition, Dietrich Metal Framing ensures product performance and reliability through rigorous testing in the company's own ICC-ES-approved in-house laboratory.

The new catalog is divided into seven major product categories: deflection clips and connectors; head of wall deflection systems; rigid connectors; floor joist framing connectors; bridging, bracing and backing systems; truss framing; fire-rated connectors; and specialty clips.

Most clips and connectors are available for next day delivery through Dietrich Clip Express. Clips are shipped in convenient small package quantities and most are shipped in resealable, waterproof buckets for easy handling on the job site.

To order a copy of the new *Metal Framing Clip, Connector and Framing Hardware* catalog, visit www.dietrichmetalframing.com or contact any facility in the Dietrich Metal Framing nationwide network. The catalog is also available in CD-ROM format.

For more information, contact your Dietrich Metal Framing sales representative.



About Dietrich Metal Framing

Dietrich Metal Framing, a Worthington Industries Company, is the leading manufacturer of light-gauge framing and finishing products, systems and services for commercial and residential construction. Dietrich offers the largest selection of light-gauge framing and finishing products including drywall and structural framing, floor joists, roof trusses, metal lath, fire-rated assemblies, numerous deflection systems and an extensive line of metal, vinyl, veneer, paper-faced, plaster and stucco beads and trims.



dietrichmetalframing.com

Light Gauge Steel Engineers Association



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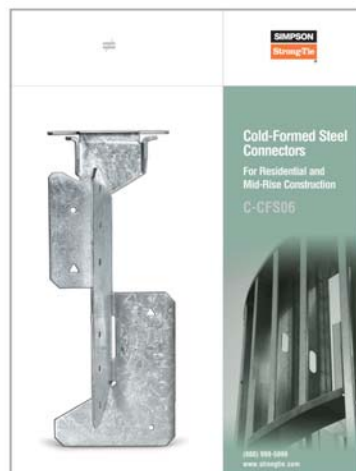
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Cold-Formed Steel Connectors visit
our booth #2141 at METALCON 2005.

