GOOD CONNECTIONS®

FALL 2023



iModel's Dynamic New Tool to Simplify Truss Load Application Catching a Problem Before it Becomes a Problem



Changes to the Florida Building Code

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BCMC | FS 2023 Preview: Showcasing Alpine's Latest Innovations & Products

Visit us at Booth #410



2023 UPCOMING U.S. & CANADA HOLIDAY OFFICE CLOSURES

U.S.

Thanksgiving Holiday Thursday, November 23 - Friday, November 24

Christmas Holiday Monday, December 25 - Tuesday, December 26

CANADA

Thanksgiving Monday October 9

Holiday Closure* Monday December 25, 2023 - Monday January 1, 2024

*Our local sales and software representatives will try to monitor e-mails periodically to assist with emergency issues.



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If you have suggestions for a class or questions, please email us at training@alpineitw.com

3

TABLE OF CONTENTS

Observations



iModel's Dynamic New Tool to Simplify Truss Load Application - pg. 10

Publishers Note:

Good Connections® is published by Alpine® for its customers, associates, builders, architects, building officials, and other professionals interested in the building components industry.

At Alpine, "Good Connections" refers to the quality products and services we offer as well as the connections we have with our customers and the components they provide to the building industry.

We appreciate story ideas, project photos, and other suggestions that you have to make this an even better publication. For more information, contact marketing@alpineitw.com

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4	Industry News
5	New Organizational Appointments
6	Alpine & BEDC Announce Strategic Partnership
7	BCMC FS 2023 Preview
10	iModel's Dynamic New Tool to Simplify Truss Load Application
11	Important Quality Checks During Each Stage of Truss Manufacturing
14	IntelliVIEW Suite's New Site Key Licensing System
15	Changes to the Florida Building Code 8th Edition (2023)
17	The Virtues of Consistency and Reliability

OBSERVATIONS



Gina Powers Vice President & General Manager

Gina Powers has joined Alpine® as Vice President & General Manager. Gina started her career as a Product Engineer in the fenestration industry and joined ITW in 2007. She has held multiple roles of increasing responsibility at ITW Technology Center, the Automotive Segment, and Specialty Segment where she served as Vice President & General Manager for ITW Dynatec, a global industrial machinery manufacturer, and Vice President & General Manager for ITW Medical.

It is with great excitement and gratitude to start a new journey with Alpine® as the Vice President & General Manager. As I step into this role, I want to take a moment to express my deepest appreciation to our customers, supply chain partners, and colleagues for the relationships we have built over the years. Alpine remains devoted to our core values, culture, and our customers.

I am humbled at the opportunity to lead the Alpine Team, an organization that has truly demonstrated innovation and dedication to the industry. Our team's collective efforts to exceed customer expectations in every respect and unwavering commitment to forging stronger relationships for success have been the driving force behind our achievements. I want to recognize as well as show appreciation for this passion the team brings every day in support of our customers—demonstrating the true value of Alpine. I am extremely proud of what has been accomplished and know this team has what it takes to continue to drive differentiated results and exemplary customer experience.

While I have had the pleasure of meeting many of our customers and partners over the past few weeks, I look forward to connecting with each of you in person. I am eager to hear your stories and gain insight into operational and business challenges that Alpine can help address. We are committed to strengthening our partnerships, to help ensure the successes of our customers and support sustained growth in the component manufacturing industry.

Cultivating relationships with our partners is a critical component of how we innovate. The upcoming BCMC | FS 2023 show holds a particular significance it will be my first! We are expecting a successful show and this platform provides a great opportunity to reconnect and—for me—to develop some new relationships. We will be highlighting the latest software innovations and providing live equipment demos. Alpine's Annual Customer Appreciation Event on Wednesday evening at Pins Mechanical promises to be a fun-filled evening. An excellent venue for all of us to come together, celebrate, and, simply—relax.

I am looking forward to meeting each one of you personally, sharing experiences, learning about your vision, as well as how we can strengthen our partnerships to achieve mutual (continued) success. Thank you once again for your trust in Alpine[®].

See you soon in Indianapolis!

lyina dr

UNDUSTRY NEWS

BCMC | FS 2023 Booth #410

Building Component Manufacturers Conference 2023 will be held from Wednesday, September 20th to Thursday, September 21st at the Indiana Convention Center in Indianapolis, IN. Join us at booth #410 to learn about our latest innovations designed for component manufacturers. LEARN MORE

Housing Starts

According to Reuters, U.S. single-family homebuilding surged in July and permits for future construction rose amid an acute shortage of previously owned houses. Single-family housing starts, jumped 6.7% to a seasonally adjusted annual rate of 983,000 units in July. **LEARN MORE**

Housing Market Predictions for 2023: When Will Home Prices be Affordable Again?

Though summer temperatures have been scorching hot across many parts of the country, housing market activity remains tepid. The national average 30-year fixed mortgage rate ended in July where it started before edging near 7% the first week of August. **LEARN MORE**

Home Prices are Hitting New Highs Again, as High Rates put the Squeeze on Supply

Home prices hit a record high in May, rising 0.7% nationally compared with April at a seasonally adjusted rate. Prices, which have been rising since January, were 0.1% higher in May than a year earlier. **LEARN MORE**

NAHB IBS 2024

Visit Alpine[®] at booth #C1835 at the upcoming International Builder's Show 2024 from Tuesday, February 27th to Thursday, February 29th at the Las Vegas Convention Center in Las Vegas, NV. LEARN MORE



Wed. Sept. 20th | 8:30 pm - 12:00 am Thurs. Sept. 21st | 6:00 pm - 12:00 am The Westin Indianapolis Capital Overlook (2nd Floor) 241 W Washington St. Indianapolis



NEW ORGANIZATIONAL APPOINTMENTS



Tristan Kerins

Tristan Kerins has joined Alpine[®] as a District Sales Manager in Pennsylvania. In her new role, Tristan is responsible for working with our customers and prospects in the northeastern region.



Amanda Rzucidlo

Based out of Michigan, Amanda Rzucidlo has joined Alpine[®] as a Software Consultant. With over nine years of CAD and project management experience, Amanda will be responsible for providing customer support across Michigan, Indiana, and Ohio.

Discover your potential with Alpine! We're proud to promote a collaborative, inclusive, and creative work culture. Learn how you can join our team: *https://alpineitw.com/about-us/careers/*

IntelliVIEW® SOFTWARE 23 Series

STITCHER® Reimagined

A new user experience for a better, faster

workflow to take designers from drawing

New Load Areas Tool

A single, dynamic tool designed to apply truss loads within a region accurately and simultaneously, including point, line, and polygon area loads.

New Visibility Manager

Control visibility of layout elements such as trusses, CAD elements, notes, and more with a click.



IntelliSheets

Create custom spreadsheets and job lists. Introducing new editing capabilities and security features.

Enhanced 3D Viewer

Effectively use the 3D Viewer by maintaining the visibility and orientation of the 3D model.

Truss Properties Manager

Identify and review trusses quickly within the layout.



ALPINE & BEDC ANNOUNCE STRATEGIC PARTNERSHIP

Providing Alpine[®] customers with a trusted third-party design solution.

August 28, 2023, Glenview, IL – Alpine®, a leading provider of industry solutions for component manufacturers, and Building Engineering & Design Company (BEDC), provider of design services, are pleased to announce they have entered into a strategic partnership to provide a cost-effective solution to help component manufacturers (CMs) scale their business quickly.

Finding skilled truss designers to support growth can be a challenge. John Croll, Alpine Director of Solutions Delivery, explained, "As a trusted partner in the component manufacturing industry, this is an important strategic alliance that enables our team to confidently introduce a highly skilled, accurate, and reliable third-party design service to our customers. When CMs need to scale their design resources up quickly and affordably—BEDC leverages Alpine software as well as its own technology to get the job done."

BEDC helps make all types of design projects faster and more accurate. "I'm excited about this strategic partnership," said BEDC's Chairman, Jonathan Reid. "BEDC is now bringing the benefits of its large-scale design service facility supported by patented AI technology exclusively to Alpine's customers across US and Canada. And these customers are already seeing strong benefits through increasing quote volumes and job win rates." "This will help our customers with designer recruitment, training, and quality control," added John Croll, "all backed by Alpine training." BEDC provides solutions that optimize the design process. CMs can expect the following:

- Cost-effective solutions without long-term contracts
- Dedicated design team comprised of degreed civil engineers
- Experienced U.S. based quality assurance team
- Production quality designs tailored to customer expectations and specifications
- Fully transparent relationship treated as a partnership with customers

This partnership further demonstrates Alpine's commitment to supporting its customers' growth potential. For more information, please contact your local Alpine® Sales Representative or email *info@alpineitw.com*.

ABOUT BEDC

Transforming building design, Building Engineering & Design Company (BEDC), which has offices in New Zealand, Australia, USA, Canada, and the Philippines provides design services which drive efficiencies and value for the construction industry with leading-edge patented AI technology. BEDC delivers fast, accurate and complete design services for all market sectors for roof, floor (including I-Joist), wall panel/ frame and whole house. For additional information, visit *https://www.us.bedc.ai/*.

BCMC | FS 2023 PREVIEW

Showcasing our Latest Innovations & Products

Glenview, IL—We are excited to be exhibiting at the Building Component Manufacturers Conference and Framers Summit (BCMC | FS) this year. Exhibiting at booth 410 on September 20-21, 2023, in Indianapolis, Alpine[®] will be highlighting the latest advances designed to make component manufacturers (CMs) more profitable and competitive. There will be four stations providing live product demonstrations showcasing designer efficiency, software performance enhancements, and new tools to empower customers to manage data.

Alpine Director of Software Development, Rick Tilelli explained, "Interacting with customers and industry experts, as well as showcasing our new products and features, makes this show an annual highlight. Our software team's mission is developing solutions that deliver value, enabling our customers to be more efficient, more profitable, and more competitive. We can't wait to unveil our exciting new software innovations and improvements at BCMC | FS 2023."

INTELLIVIEW® SUITE 2023 HIGHLIGHTS & NEW TOOLS

- Load Areas is a powerful new tool in iModel (version 23.02) designed to enhance and simplify the tedious, repetitive, and time-consuming process of applying special load conditions. It allows designers to input truss loads within a defined region accurately and simultaneously, saving valuable time and effort.
- The Visibility Manager is a new iModel feature that provides designers with enhanced layout performance and up to 80% faster navigation with large multi-family plans. With the ease of a click, designers control the visibility of the layout elements—showing or hiding only needed objects and annotations.
- iCommand[®] IntelliSheets takes business management to the next level. Introduced in 2022 to create custom job lists, track progress, and share live reports easily with different users—the 2023 Series incorporates production data, additional editing capabilities, as well as improved security controls.



23 SERIES FEATURES

iModel Load Areas Tool

A single, dynamic tool designed to apply truss loads within a region accurately and simultaneously.

New Visibility Manager

Control visibility of layout elements such as trusses, CAD elements, notes, and more with a click.

Performance Improvements

Experience up to 80% faster navigation with large multi-family layouts.

Email Reports

Simplified tools for sending reports to job-related contacts within iCommand.

iCommand[®] IntelliSheets Enhancements

Modify job fields and dates for jobs quickly with new editing capabilities within IntelliSheets.

Grant access, fine-tune permissions, and manage editing rights for added security.



New Visibility Manager feature in iModel.

STITCHER® SOFTWARE REIMAGINED

"In partnership with our customers, we continue enhancing our innovative STITCHER Software ensuring we deliver designer efficiency," Rick Tilelli added. The new interface and workflow provide an easier ramp-up for new users. Driven by customer feedback, these enhancements deliver even more value to STITCHER, which is allowing designers to improve efficiency by 75% or more. Time spent on drawing review and entering the building envelope can be reduced to a minimum with STITCHER® Software.

ALPINE® EQUIPMENT

"As the industry moves toward increased automation, Alpine is at the forefront of this effort, delivering quality and safety-oriented solutions that increase machine uptime and productivity," said Vennor Hackshaw, Business Unit Manager at Alpine. Alpine will be providing live demonstrations showcasing the Alpine Linear Saw (ALS) and AutoSet Plus Tables.

Leading the industry in board-feet-per-hour, and operable by a single sawyer, the Alpine Linear Saw (ALS) 4.0, reduces labor costs and material waste while improving the bottom line. Live demonstrations will highlight its cutting versatility, automatic marking, material waste reduction capabilities, and much more. The ALS also improves safety by keeping the operator clear of dust and moving parts. See it in action!

With set up in less than 25 seconds, the AutoSet Plus Table sets industry benchmarks in truss production efficiency and accuracy. This computer-controlled system is easy to learn, use, and maintain. The automated steel pucks help workers maintain a consistent workflow, with higher accuracy, and reduce employee fatigue.



The new STITCHER interface and workflow takes designers from drawing review to building envelop to 3D model like never before.



AutoSet Plus Tables

SNEAK PEAK—AND PRIVATE DEMOS

For a sneak peak, Alpine will also provide a preview into the future development of the PaperSpace Tool and IntelliSheets Cloud version—both available later this year—at booth 410. Please contact your local Alpine® Sales Representative to book a private software or product demonstration or email *info@alpineitw.com*.



Need Help?

Solve a problem, read expert articles, watch online tutorials and access top-notch support when you need it. At Alpine[®], we provide our customers with the ultimate support experience. Our passionate Help Desk team is ready to assist every step of the way to ensure you always get the most out of our software.









Help Documentation

Solutions Network

Alpine® Academy

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i M O D E L



Matthew Bobrowicz Product Owner

iMODEL'S DYNAMIC NEW TOOL TO SIMPLIFY TRUSS LOAD APPLICATION

Applying special load conditions to trusses is a tedious, repetitive, and time-consuming task for designers. Without a visual representation of the load in relation to the trusses on a plan, it can be a challenge to position the loads and determine the load magnitudes required for each truss.

As a result, accuracy is impacted. Load Areas is a powerful new tool in iModel (version 23.02) designed to enhance and simplify the process, drastically improving load application efficiency as well as placement accuracy.

APPLY TRUSS LOADS WITHIN A REGION SIMULTANEOUSLY

Designers no longer need to apply loads to each truss individually; Load Areas allows users to input truss loads within a defined region accurately and simultaneously, saving valuable time and effort. Designers can specify exactly where the load will be placed on the roof or floor, and the tool will automatically apply the loads to all trusses intersecting with the given load area.

A VERSATILE TOOL WITH SIGNIFICANT TIME-SAVINGS

A key feature of the Load Areas tool within iModel is its simplicity. Three different load types including point, line, and polygon area loads, can be applied using just a single tool, making it remarkably versatile and user-friendly. It also allows designers the ability to edit existing load areas with ease—a significant time-saving advantage.



Define loads for all trusses in a region with the Load Areas tool.

The new Load Areas tool within iModel presents a game-changing solution for component manufacturers as well as lumber and building material plants. Engineered to enhance the workflow and optimize truss load management, Load Areas saves users significant time with fewer clicks. To learn more about how the latest tool can improve your design process, please contact your local Alpine[®] Sales Representative.



Phillip Crumback Alpine Engineer

IMPORTANT QUALITY CHECKS DURING EACH STAGE OF TRUSS MANUFACTURING: CATCHING A PROBLEM BEFORE IT BECOMES A PROBLEM

Quality control starts before the first piece of lumber is set into motion. Every employee at each phase of component design and manufacturing plays a critical role to help avoid costly repairs, potential frustration, and additional workload. As an engineer that has seen many repairs, here are a few easy tips to catch a problem before it happens.

TRUSS DESIGNERS: CONSIDER A SYMMETRICAL DESIGN

Having to replace or repair even one truss in the field causes significant disruption for everyone involved. During installation, for example, the position of the truss can accidentally be flipped or reversed. If not caught immediately, it will be both difficult and costly to pull the truss back out.

The first line of defense is with design. When appropriate, design trusses symmetrically to improve field installation, paying close attention to the lumber and connector plates. This is especially true for large multiply girders that are asymmetrically loaded. A symmetrical truss can be flipped during installation without impacting the structural integrity, an asymmetrical truss cannot. With a few small adjustments in the webbing and/or selecting a larger plate size, the issue of flipped (or reversed) trusses is easily avoided, ultimately improving installation speed, and saving money (see Table 1).



Figure 1. Two install examples of poor-quality lumber that impacted the integrity of truss members.

SAWYERS & ASSEMBLERS: THE QUALITY OF LUMBER

Poor quality lumber will also lead to costly repairs if not caught before installation. There are a few check points where the quality can be flagged. A sawyer will often have the first opportunity to check the lumber before it is cut and cull the final truss members of any problem areas. It is important to remove any weak portions at or near where the piece will be cut as these defects weaken a truss (see Figure 1). Removing lumber with large knots, large amounts of wane, as well as low-grade lumber will help ensure the truss' integrity.

Table 1. The Cost of Identifying Quality Issues

Issue: Flipped or Reversed Trusses

NEEDED FOR REPAIR	COST	PREVENTION
Repair Drawing Required	Time & Engineering Fees	A little extra time at the design stage to
Repair Materials	Time & Material Costs	review for potential symmetry.
Complete the Repair	Time & Labor	
Possible Delivery Fees		
Schedule conflicts and delays	Back Charges & Fees	

Issue: Broken or Poor-Quality Lumber

Repair Drawing Required	Time & Engineering Fees	Minimal impact as each piece of
Repair Materials Needed	Time & Material Costs	lumber is already being reviewed. The
Complete the Repair	Time & Labor	sawyer, assemblers, and stackers take a
Possible Delivery	Shipping Costs & Fees	little extra time evaluating the quality.
Schedule Conflicts & Delays	Time, Back Charges & Fees	

Poor lumber quality will also impact the quality of the connector plate embedment. When trusses are assembled at the table, there may be lumber defects located at or near the joint where the plate will be embedded. This can impact the tooth holding capacity of the connector plate. Assemblers should also review the middle of the lumber for large knots, wane, and/or low-grade lumber that could potentially weaken a truss. If a defect is identified, requesting a new truss member will help prevent costly repairs in the field.

For more information, there are additional resources provided by Western Wood Products Association (WWPA) on how to visually assess lumber.

DELIVERY OF TRUSSES

When trusses are delivered to a job site, they need to be checked for potential damage that may have occurred during delivery. Trusses are made up of parts assembled and held together at joints by connector plates; they are not solid members. If a truss is not properly handled, damage can easily occur while loading and unloading. If damage is identified, the site foreman should be informed prior to the truss being rolled off the truck or installation. The truss will need to be set aside at the job site and flagged. Installers will also need to be informed of the potential damage and a repair may be needed before placing the truss on the building. Communication is key.

As a best practice, trusses should be inspected before and after they are delivered to a job site. Looking for damage, such as broken and/or chipped lumber (i.e., chords and webs). Also, check for any loose, torn, wrinkled, or lifted plates. If defects are identified, do not try to install the truss. Notify the site foreman or manager and set the truss off to the side. It becomes more complex to fix an installed truss compared to one on the ground.

Component manufacturers will often include a document with each job, the HIB-91 Summary Sheet. This is written by the Truss Plate Institute (TPI)

covering best practices for proper handling, installing, and bracing of trusses. The HIB-91 Summary Sheet is an essential guide for component manufacturers, truss installers, contractors, and builders of record.

TRUSS INSTALLERS

Truss installers are the last defense for flagging potential defects in a truss. They need to be careful to identify issues before sheeting, especially if a damaged truss cannot be repaired. After sheeting, the financial and scheduling impact of replacing or repairing a truss increases significantly.

Spending time to recognize and correct potential problems before installation is a wise investment for

component manufacturers. It is more cost-effective to take a little extra time and diligence during each phase. Quality control relies on each phase of truss design, manufacturing, and installation, and is a critical responsibility for every team member.

If a problem does arise in the field and before attempting a repair, contact Alpine's Structural Engineering Team for support. Alpine® offers 24-hour response time on engineering services as well as seasoned professionals in assessing the structural capabilities and requirements of roof and floor trusses for construction applications. They will be able to assist in finding the least costly solution.

eSHOP | PLANT MANAGEMENT SOFTWARE MADE EASY



Manage All Production Activity with One Platform

Manage roof truss, floor truss, and wall panel production activity all on one platform.

Intuitive Web-Based Manual Shop Stations

Access from any device with a browser, without the need to install the software on each station.

Seamless Automated Equipment Integration

Supports Alpine[®] & multiple third-party equipment. Save time, increase efficiency and accuracy.

INTELLIVIEW SUITE QUESTIONS

INTELLIVIEW SUITE'S NEW SITE KEY LICENSING SYSTEM

From IntelliVIEW[®] Suite 23.01 onwards, the default site key licensing system will be replaced with Soraco Quick License Manager (QLM) a new, modern tool. With Soraco QLM, the IntelliVIEW Suite license will not expire, and users will no longer be required to update the site key periodically to continue using the software.

How long do the QLM licenses last?

The QLM licenses are perpetual. They are valid until turned off or revoked by Alpine[®].

Is a new license key required if new software is purchased?

No. With QLM, new software products can be added to the current license key.

Can the same software license key be used on multiple computers, including desktop computers and laptops for remote work?

With QLM software authorization, each license key can be assigned multiple activations. If multiple activations are needed, please reach out to the Helpdesk team.

How to transfer a license to another computer?

Users can transfer a license from one computer to another by releasing the software license key.

To release a key:

- 1) Access Administration > Licensing within iCommand®
- 2) Click the 'Release' button.

The product will shut down and the key can now be re-used on another machine.

Does the QLM require an internet connection to communicate with the QLM License Server?

Yes, an error message (Figure 1) may appear if there is no internet connection for more than five days. To resolve this, try reconnecting to the internet and re-launching the IntelliVIEW[®] Suite.



Figure 1. QLM error message

How to get a license key after hours?

Users can activate a Temporary Key (Figure 2) which is good for five days.

C Alpine Licensing				
Activate Activate Offline Activate Temporary Key	Product: intelliVIEW License Key:			
	Activate Close			

Figure 2. Temporary Alpine licensing key activation

CHANGES TO THE FLORIDA BUILDING CODE 8TH EDITION (2023)

AUTHORS

Fernando Vinas | P.E., Engineering Team Lead Douglas Fleming | P.E., Engineering Team Lead Gewana Abdelmesih | Engineer Abdur Khan | Engineer John Barthle | Engineer

The Florida Building Code (FBC) Integrated Draft 8th Edition (2023) was held on May 22, 2023. The code will go into effect on December 31, 2023, replacing all previous versions. All truss design packages sent to Alpine® Engineering after December 31st must be designed under the new FBC. An exception can be made if the construction documents were permitted under the 7th Edition of the FBC. In this case, the truss designer shall provide Alpine the date the job was permitted.

FBC 8TH EDITION (2023) REFERENCE STANDARDS

The industry has several reference standards that Alpine follows to design metal plate connected wood trusses. These design standards include:

- NDS "National Design Specification for Wood Construction"
- BCSI "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses"
- ANSI/TPI 1 "National Design Standard for Metal Plate Connected Wood Truss Construction"
- ASCE 7 "Minimum Design Loads and Associated Criteria for Buildings and Other Structures"

The standards and building codes that reference them are updated every three to four years. The current FBC is the 7th Edition (2020) and the reference standards for the wood truss industry is NDS 2018, ANSI/TPI 1-2014, BCSI, and ASCE 7-16. Metal plate connected wood trusses shall be run under the newly referenced ASCE 7-22.

CHANGES IN ASCE 7-22

1. Basic Wind Speed Map

In Chapter 26, the wind speed maps are still based on the type of Risk Category (I through IV). However, there are some changes to the contour lines in the Florida Panhandle down through the Big Bend regions. The changes increase the wind speed in some of the regions and decrease wind speed in others.

2. Wind-Borne Debris Region

In Chapter 26, glazed openings shall be protected within 1 mile of the mean high-water line where an Exposure D condition exists upwind of the water line and the basic wind speed is 130 mph or higher.

3. Main Wind Force Resisting System (MWFRS)

New provisions for Main Wind Force Resisting System (MWFRS) on elevated buildings are available.

Figure 1. Determining overhang loads for gable and hip roofs.

Roof Overhang GC_p = Roof GC_p +/- Wall GCp

rigare 1. Determining overhang loads for gable and

4. Simplified Methods

The Simplified Methods in Chapters 27, 28, and 30 are deleted and no longer a requirement.

5. Component and Cladding

There are no changes for flat roofs. New criteria have been added for the design of net uplift pressures for roof pavers. Generally, C&C wind pressures may remain roughly the same, though they will vary depending on the roof type and wind zone (overhangs will be calculated differently and may go up or down). The log graphs have been simplified to only three zones. The wall external pressure coefficient has been revised to GCp, for h > 60 feet (C&C). Roof overhang loads shall be determined by summing roof GCp +/- wall GCp for gable and hip roofs (Figure 1).

In summary, the new FBC, 8th Edition (2023) will go into effect at the end of this year. As a result of the new ASCE 7-22 reference standard, the wood truss industry may see changes to trusses designed under the previous editions of the FBC. There will be little to no changes to materials and uplift reactions when trusses are designed with MWFRS wind pressures. C&C wind pressures will vary depending on the roof type and wind zone. Alpine's engineering philosophy is that trusses fall into both categories (MWFRS and C&C) and should be designed for both wind pressures. Because of the changes, IntelliVIEW® Suite users will see adjustments to truss materials, plate sizes, and uplift reactions. The magnitude of these adjustments depends on the level of optimization the trusses were designed under the current code. Alpine's Engineering Department will continue to keep customers and the industry informed of the changes as they are made known. We will provide detailed reports on the expected changes. Contact Alpine® Engineering at structuralengineeringsupport@alpineitw.com to learn more.

References

1. Florida Building Code, 8th Edition (2023)

2. ASCE 7-22 Minimum Design Loads and Associated Criteria for Buildings and other Structures

THE VIRTUES OF CONSISTENCY AND RELIABILITY

Article courtesy of SBCA – Structural Building Components Association

How lumber and steel standards make your business viable.

Imagine what running a truss plant would be like if one out of every hundred connector plates had performance issues in the field or every third stick of lumber was 1/16" thicker or thinner than the next, making joints difficult to assemble. Not only would there be constant headaches and stress associated with poor product performance, but your exposure to risk would be so great it might make component manufacturing unviable. To address this issue, this article explores the importance of industry standards and how component manufacturers (CMs) rely on those standards in the design and manufacture of their products.

AMERICAN SOFTWOOD LUMBER STANDARD PS 20 AND THE ALS SYSTEM

The American Lumber Standard Committee (ALSC) develops and maintains the American Softwood Lumber Standard, also known as PS 20, through a relatively complex process. It also operates two autonomous committees charged with implementing various aspects of the standard: the ALSC Board of Review (BOR) and National Grading Rule Committee (NGRC).

The PS 20 standard is developed in accordance with the *Procedures for the Development of Voluntar11 Product Standards* issued by the U.S. Department of Commerce. As such, it is developed through an industry-related consensus process with the intention of protecting the public interest. PS 20 establishes standard lumber sizes (including dimension lumber in green and dry conditions), requirements for the preparation of grading rules and the assignment of design values that correspond to the grade rules, industry nomenclature, formal inspection and re-inspection provisions, and grade marking requirements.



The BOR certifies grading rules and approves design values developed in accordance with ASTM standards and other criteria authorized by the National Institute of Standards and Technology. ASTM standards are published by ASTM International, formerly known as the American Society for Testing and Materials, an organization that develops and maintains voluntary standards for a variety of materials and applications. The BOR also solicits the advice and counsel of the U.S. Forest Products Laboratory, and accredits and monitors agencies to grade and inspect according to those rules. The GRC maintains descriptions of grades of dimension lumber conforming to the PS 20 standard for public reference. The American Lumber Standard (ALS) system is the result of this process. <u>CONTINUE READING</u>

> Click here to read the full article "The Virtues of Consistency and Reliability" in SBCA Magazine



Improve Plant Production. Maximize Labor. Automate Your Truss Manufacturing.

Drive your truss plant into a sustainable future. House of Design and Alpine®, an ITW Company, have teamed together to bring you the latest in robotic solutions. Solutions that increase your plant's production throughput while helping solve labor concerns and improve employee safety. Contact your local Alpine® Sales Representative to learn more.

Automated Floor Truss Systems | Automated Roof Truss Systems | Roof Member Preplate Station

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