GOOD CONNECTIONS®





Florida Building Code 7th Edition 2020

14

Latest IntellilVIEW Suite Release Improves Flexibility

Bringing the Latest in Automated Solutions to Component Manufacturers



2020 UPCOMING HOLIDAY CLOSURES

Thanksgiving Holiday

- Thursday, November 26th
- Friday, November 27th

Christmas Holiday

- Thursday, December 24th
- Friday, December 25th

• Inte

LEARN AT YOUR CONVENIENCE

- IntelliVIEW Suite Ask the Trainers, November 13, 2020
- IntelliVIEW Suite Levels/Layers and Plan Finishing, December 18, 2020



<u>Register or log in here</u>

All software training webinars are held **11 AM - 12 PM** (EST) (Unless otherwise noted and subject to change)

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



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 <u>marketing@alpineitw.com</u>.

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OBSERVATIONS



Kevin Kraft Vice President & General Manager

Kevin Kraft is the Vice President and General Manager responsible for overseeing the Alpine® business for ITW. Previously he was the Engineering Director for ITW's Residential Construction Design Center in Lake Forest, Illinois. He led the research and development of innovative fastener and connector systems for the wood-to-wood construction market. He has also served as Research & Development Manager at the ITW Innovation Center in Glenview, Illinois.

NAVIGATING THROUGH UNPRECEDENTED TIMES

Unprecedented, unequal, unparalleled, new normal are all words/phrases used to describe 2020. Despite the upheaval that COVID-19 has caused in our lives, our industry has persevered. 2020 will undoubtedly be a year burned in our memories, with the ongoing global pandemic, the rising costs of materials, and delays in material delivery, among the usual challenges. These uncertainties have forced us to think differently and adapt quickly to the "new normal." But if I have learned anything in this industry, it is that we will find a way. Battling adversity is not a new thing, and certainly not something that would make any of us shy away.

We've adapted how we get work done. I'm proud to be a part of this industry and its level of determination, commitment, and drive to succeed. Despite the slowdowns earlier this year and ongoing uncertainties, it is encouraging to see the construction industry leading the way towards economic recovery. We've seen strong single-family housing starts fueled by record-low interest rates and more people working from home. We're seeing positive developments firsthand as we navigate through these challenging times.

Like all of you, Alpine® has also evolved with the current environment. We continue to serve our partners throughout the pandemic with expanded PPE requirements, enhanced cleaning practices, and implementing social distancing in all work environments, along with new safety and travel guidelines. I'd be remiss if I didn't take this opportunity to also thank our employees for their ongoing commitment to Alpine and our customers, especially our production and field teams who continued to "come to the office" in the early days of the pandemic. I am incredibly proud and fortunate to call them teammates.

As we forge ahead, we will continue to keep safety at the forefront while ensuring our customers have full access to all our resources. Over the last six months, we have organized multiple informative webinars to continue the training and support our customers are accustomed to as Alpine's partner. Look for new and exciting topics throughout the remainder of the year. This October, a new and improved Alpine website is launching, which will help you stay updated with the latest product information, technical details, and other relevant resources.

As we move forward in recovery, our focus remains on building strong partnerships with our customers and everyone's health and safety. We hold steadfast in our commitment to providing a safe environment while providing exemplary service and delivery that our customers know and expect from a partnership with Alpine. Despite the virtual nature of our current situation, we are confident in our ability to support you and your business throughout these challenges, and we will all come out stronger on the other side. We will persevere as we work together. Stay safe.

Men Muft

BCMC 2020 Cancelled

The SBCA Executive Committee confirmed the cancellation of BCMC 2020 due to significant concerns regarding the ongoing COVID-19 pandemic. An in-person BCMC 2021 show is planned from October 5th to 8th in Omaha, Nebraska. LEARN MORE

August 2020 Housing Starts

The overall U.S. homebuilding fell 5.1% in August after substantial gains in the previous three months due to a drop in multi-family home constructions. However, single-family starts showed continued growth supported by record-low interest rates and rising suburban shifts as more people work from home. LEARN MORE

BFS-BMC Merger

Builders FirstSource, Inc. and BMC Stock Holdings, Inc. announced their entry into a definitive merger agreement under which Builders FirstSource and BMC will combine in an all-stock merger transaction to create a premier supplier of building materials and services. LEARN MORE

Lumber Price Surge

Lumber prices have spiked 130% since mid-April. The increase in prices has resulted in the average cost of a new single-family home to increase by over\$16,000 and the market value of an average new multi-family home to increase by over \$6,000. LEARN MORE

NEW ORGANIZATIONAL LEADERSHIP APPOINTMENTS



Vennor Hackshaw

Equipment Business Unit Manager

Vennor Hackshaw joined Alpine® as the Equipment Business Unit Manager in March 2020. Based out of Grand Prairie, TX, he is a key member of the Alpine leadership team and is responsible for driving our equipment business. We are excited that his leadership provides an excellent foundation for the continued success of our equipment business. Vennor enjoys running and has completed an impressive 30+ half marathons. He also enjoys reading, traveling, gardening, mentoring, is active in church, and supports his children's sporting activities: basketball, soccer, and volleyball.



Matthew Samuels

Director of Structural Engineering

Matt Samuels joined Alpine as the Director of Structural Engineering in April 2020. Based out of Glenview, IL, he is a key member of the Alpine leadership team. He provides strategic direction to the Structural Engineering group to maintain their best-in-class position in the building components industry. In Alpine's rich history, he will be the fifth individual to lead our Structural Engineering organization. Matt enjoys hiking, fishing, coaching baseball, and golfing, and would love to spend more time at the golf course.

ALPINE[®] & HOUSE OF DESIGN ARE PARTNERING TO BRING THE LATEST IN AUTOMATED SOLUTIONS TO COMPONENT MANUFACTURERS



Shane Dittrich CEO, House of Design

At a trade show last fall, my business partner and I met a third-generation truss plant owner. He was in search of ideas, perhaps a fresh perspective, new technology maybe? Something to help his business continue. His frustrations had been mounting over the past couple of years due to a lack of skilled and willing labor, not wanting to pull more investment if production couldn't fulfill the required sales quotas, etc. He was at a crossroads with his business. After that introduction, he told us there was hope. Our Automated Systems had provided him some optimism that his company might continue after all.

AUTOMATION & MANUFACTURING

As the rate of automation adoption increases across U.S. manufacturing, our House of Design (HoD) team works with clients and industries who desperately need new solutionsto old problems. We have made a name for ourselves by creating advanced robotic solutions for leading companies in the apparel, consumer goods, and medical manufacturing. Slowly and strategically, HoD has been working to build our experience and expertise in the components industry with Alpine's help, a leading provider of industry solutions, and increased business productivity for component manufacturers. We are working with business leaders who see the tangible benefits of automation and are ready to invest in new practices to provide a competitive



ABB 4600 robots positioning lumber in the press for preplating prior to roof truss assembly.

advantage. We focus on disrupting traditional markets by delivering highly advanced solutions that empower companies to take their manufacturing to the next level. House of Design and Alpine® have partnered to bring six state-of-theart automated solutions to market to best serve the components industry, targeting common problems: lack of skilled labor, quality, and production capacity. House of Design and Alpine are both leaders in their respective industries, and a partnership between the companies brings two very progressive companies together to the benefit of clients.

ALPINE & HOUSE OF DESIGN ARE PARTNERING TO BRING THE LATEST IN AUTOMATED SOLUTIONS TO COMPONENT MANUFACTURERS

"Alpine" is bringing its industry expertise, leading component equipment, and 'know-how' to the partnership with House of Design, which brings unmatched robotics integration. We are looking forward to this partnership delivering unparalleled automation to the industry", stated Kevin Kraft, Vice President & General Manager of Alpine.

We are focusing on the common problems truss manufacturers are experiencing, the lack of skilled labor, quality, and production capacity. Most of the tasks necessary for building truss systems require workers to be stooped all day, resulting in injuries and overall wear and tear on employees. As an alternative, robots are designed for repetitive tasks and can move and manage material throughout a shift without slowing. Robots are often paired with vision technologies that allow for inline inspection, ensuring goods are produced to exact standardsevery time. We are not necessarily trying to reinvent how something is manufactured; we use robots to assist workers and help with the heavy lifting. For example, building a truss on a table is nothing new; using robots to place boards and move components alleviates stress on workers while increasing production capacity and improving quality.

In addition to robotic picking and placing, a driving key to our component assembly systems is the preplate technology. Our



Robots do the repetitive and heavy lifting.

preplate stations, paired with truss editing software, provide the right connector plate at the right location and required orientation. Our patent-pending automated preplating decreases interactions with connector plates to improve employee safety and deliver precise placement for less waste. No industry standard flipping is required. We are excited about the preplate stations and their versatility and ability to increase jack truss demand results.

In closing, I ask, "What is the plan, and how can we assist?" How will component manufacturers respond to unprecedented demand for housing, building components, paired with the continued shortage of reliable and skilled labor? We have solutions, not concepts but tested products ready for your exploration! Together we can help drive truss plants into a thriving and sustainable future.

Contact your Alpine Sales Representative or visit <u>alpineITW.com</u> to learn how to leverage this technology to improve your business today.



Multi-functional end-of-arm tools (this one nicknamed "bird beaks") use both pneumatics and vacuum for movement of lumber throughout the automated line.



Assembly of floor trusses – ABB robots place spliced and preplated chords with connector plates on the bottom. Webs are placed with connector plates on the top to avoid flipping.

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

Drive your truss plant into a sustainable future. House of Design, an ABB Robotics integration company, 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 Roof & Floor Truss Systems | Roof Member Preplate | Chord Preplate | Connector Plate Picker | Splicing Station



We've Got Every Angle Covered. alpineitw.com | 800.521.9790

MAXIMIZING WALL PANEL DESIGN PRODUCTIVITY & ACCURACY



John Croll Portfolio Manager

As a wall panel designer, there are two critical performance metrics to hit: efficiency and accuracy. In a competitive component manufacturing landscape, maximizing designer productivity on both quotes and orders is paramount to running a successful business. Quickly generating an accurate quote for a builder can help win a job, and turning finished designs around quickly can keep the shop humming with work while ensuring a CM gets the most of its high-value design resources. Equally significant: call-backs and repairs eat away at profit margins and tie up the whole production workflow. Avoiding these mistakes allows a CM to move on to the next profitable job with confidence.

Alpine's iPanel wall panel design software solution provides new tools to ensure panel designers' maximum efficiency and accuracy. Paired with the revolutionary STITCHER® wall input method, iPanel enables panel designers to produce an extremely accurate bid in record time. STITCHER allows a designer to capture the wall layout with just a few clicks. Once in iPanel, the new Fabrication Rules and Openings Manager offer a streamlined and flexible way to design the panels precisely as the builder requests. These tools are useful during bidding and production design and allow iPanel customers to automatically control specific design choices on a builder or project level.

Fabrication rules are groups of settings that dictate specific design choices for the system to make during panelization. This includes header size and material, the number of trimmers per jack assembly, and how to space cripples in openings, just to name a few. These settings can be customized for small, medium, and large openings and per level of the building. iPanel users can have a unique fabrication group for each project or builder, producing efficient consistency between the same customer jobs.



Openings Manager

MAXIMIZING WALL PANEL DESIGN PRODUCTIVITY & ACCURACY

The Openings Manager presents an easy-to-use interface for designers to standardize further the openings they will use in their jobs. Each opening can be fully designed and customized graphically and by modifying settings, including finish height and header material. Multiple openings can be created and shared between levels. This allows the user to quickly define the opening inventory to be used for a project and apply that inventory to the layout with ease. Changes made in the opening manager can be synced with other designers using a simple

upload/download mechanism, which allows complete control over which designs share across the system.

Both tools enable a manager to standardize their designers' specific design choices while accounting for the innumerable builder-specific preferences they must deal with in the field. The initial setup is easy, and sharing fabrication groups and openings across designers is simple. When a panel designer panelizes a layout, iPanel uses these configurations to frame the house how the builder wants it automatically. This cuts down on design time during both stages of the process while reducing the number of mistakes that get shipped out resulting in call backs.

The Alpine® workflow from STITCHER® to iPanel is uniquely powerful in its ability to produce rapid, accurate bids and enables users to frame a house to exact specifications with minimal manual manipulation. Talk to your local Alpine Sales Rep. about how to leverage these tools to improve your wall panel business today.

Rough Opening Framing	Size Range Small: Under	3	Medium:	3		to 6	Large: Over	6			
General	Floor Level										
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			Claight and Malachi		- 10 -	٦					
			rinsneu neigh	00814							
	Direct Marrie		Small			Medium			Large		
	Fiece Name	#	Material		#	Material		#	1 0	Material	
	Header										
	Header	0	None		0	None		0	None		
	Header Filler 1	0	None		0	None		0	None		
	Header Filler 2	0	None		0	None		0	None		
	Jack Subassembly										
	King Stud	2	Wall-In		2	Wall-In		3	Wall-In		
	Trimmer	2	Wall-in		2	Wall-In		3	Wall-In		
	Trimmer Shim	0	None		0	None		0	None		
	Sills										
	Header Sill	0	None		0	None		0	None		
	Top Header Sill	1	Wall-In		1	Wall-In		1	Wall-In		1
	Bottom Header Sill	1	Wall-In		1	Wall-In		1	Wall-In		
	Header Shim	1	Wall-In		1	Wall-In		1	Wall-In		
	Window Sill	1	Wall-In		1	Wall-In		1	Wall-In		
	Sub Sill	1	Wall-In		1	Wall-In	1000	1	Wall-In		16
	Cripples										
	Piece Name	Mat	terial	Spacing		User Define	d End (Crippl	les	Orientation	
	Header Cripple	Wa	II-In	Stud			# of 1	Trimm	ners	Edge	
	Sill Cripple	Wa	II-In	Stud			# of 1	Frimm	iers	Edge	
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Fabrication Rules

STITCHER® GO FROM 2D TO 3D SEAMLESSLY

At its foundation, Alpine's powerful STITCHER[®] tool takes 2D plans to 3D models by making processes like capturing walls and openings faster. But it's more than that. The automatic selection and measurement tools help to analyze the varying styles of a builder's plan, identify the building envelope, and automatically fill in the walls, openings, and fixtures. It cautions designers of problematic areas and enables them to quickly set scales and eliminate common rounding issues in a wide variety of architectural drawing formats.

3 EASY STEPS

- 1) Import 2D plan
- 2) Let STITCHER automatically identify walls and openings
- 3) Send accurate, buildable layout to IntelliVIEW® Suite



STITCHER helps your design team constructively spend time where it makes your business profitable. Designers at all levels will improve their throughput and increase their accuracy. STITCHER will save up to 95% of plan input time and approximately 30% of the overall design time. Each new plan requires a designer to study it and adjust to its style, reducing productivity. STITCHER removes review time and subjectivity from the process, eliminating interpretation and reducing human error. Depending on your type of plan, STITCHER can offer average savings of up to 75%, leading to more accurate bids and finished/approved layouts. Once the building envelope is captured and converted to a buildable 3D model, STITCHER will seamlessly import it into IntelliVIEW® or Revit to complete the design process.

FLORIDA BUILDING CODE 7TH EDITION (2020) FROM THE METAL PLATE CONNECTED WOOD TRUSS INDUSTRY

This article covers the following Topics:

- FBC 7th Edition (2020) Reference Standards
- Changes in ASCE 7-16
- Wind Load Design
- Truss and Job Comparisons

The final rule hearing on the Florida Building Code, 7th Edition (2020), was held on June 8, 2020, in which the FBC Commission approved the final version of the building code. This code will take effect on December 31, 2020, replacing all previous versions of the Florida Building code. All truss design packages sent to your Alpine[®] Engineer after December 31st must be designed under the new Florida Building Code. An exception can be made if the construction documents were permitted under the 6th Edition of the Florida Building Code. In this case, the Truss Designer shall provide Alpine the date the job was permitted.

FBC 7TH EDITION (2020) REFERENCE STANDARDS

In order to design metal plate connected wood trusses, our industry has several reference standards that we follow. These design standards:

- 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"

These standards get updated every three to four years for various reasons, and building codes that reference these standards will be updated every three to four years for a variety of reasons. The current Florida Building Code is the 6th Edition (2017), and the reference standards for the wood truss industry are NDS 2015, ANSI/TPI 1-2014, BCSI, and ASCE 7-10. The only reference standard with revisions in this cycle is ASCE. Metal plate connected wood trusses will need to be run under the newly referenced ASCE 7-16.

CHANGES IN ASCE 7-16

The most significant change from FBC 6th Edition to FBC 7th Edition is the new ASCE 7-16 reference standard. There are many substantial changes to the wind load criteria within this standard. First, ASCE 7-10 had three wind speed maps, one for Risk Category I, one for Risk Category II, and one for Risk Category III and IV. ASCE 7-16 now has four wind speed maps with a fourth one for Risk Category IV by itself (see Figure 1).

Second, there is a new ground elevation adjustment factor K_e in the wind velocity pressure equation $q_z = 0.00256K_z K_{zt} K_d K_e V^2$. This new factor is for the air density change due to different elevations from the sea level. As the elevation above sea level increases, the K_e decreases, as shown in Figure 2.

Third, there is a new enclosure classification. In ASCE 7-10 Chapter 26, there are three different enclosure classifications: Open; Enclosed; and Partially Enclosed. A Partially Open

FBC 7TH EDITION (2020)

FLORIDA BUILDING CODE 7TH EDITION (2020) FROM THE METAL PLATE CONNECTED WOOD TRUSS INDUSTRY

Building has been added in ASCE 7-16. Figure 3 shows the internal pressure coefficient and different criteria. Fourth, Calculating design wind loads for circular bins, silos, and tanks were also added in Chapters 29.4.2 and 30.12. Additionally, Chapter 29 sections 4.3 and 4.4 now include new wind load criteria for rooftop solar panels for buildings of all heights and roof slopes.

Ground elevation

adjustment factor

K.

1.00

0.96

0.93

0.90

0.86

0.83

0.80



iaure	2: Gro	ound E	levation	Ke

Ground elevation

above sea level

(m)

(0)

(305)

(610)

(914)

(1219)

(1524)

(1829)

ft

0

1000

2000

3000

4000

5000

6000

Figure 1: Risk Category IV Wind Speed Map

Enclosure Classification	Internal Pressure	ASCE 7-10 (GC _{pi})	ASCE 7-16 (GC _{pi})	Criteria
Open Buildings	Negligible	0.00	0.00	Each wall is at least 80% open.
Partially Open	Moderate	N/A	+0.18 / -0.18	Building that does not comply with []
Enclosed	Moderate	+0.18 / -0.18	+0.18 / -0.18	Open area less than smaller of 0.01(gross area) or 4 sq ft & sum of area open/sum gross surface.
Partially Enclosed	High	+0.55 / -0.55	+0.55 / -0.55	Open area greater than 1.1(sum area) & open area greater than the lesser of 0.01(gross area) smaller of 0.01(gross area of 4 sq ft & sum of area open/sum gross surface.

Figure 3: ASCE 7-16 Enclosure Classification

FLORIDA BUILDING CODE 7TH EDITION (2020) FROM THE METAL PLATE CONNECTED WOOD TRUSS INDUSTRY

One of the most significant changes Truss Designers will see when comparing ASCE 7-10 to the new ASCE 7-16, with respect to truss designs, is the increase in wind pressures from Components and Cladding (C&C). There is a new exception for the "a" distance (GCp for a wall) where a = 10% of least horizontal dimension or 0.4h, whichever is smaller, but not less than either 4% of least horizontal dimension or 3ft except for buildings with $0^{\circ} \le \theta \le 7^{\circ}$ and a least horizontal dimension greater than 300ft then "a" shall be limited to the maximum of 0.8h (see Figure 4).

The C&C change was made even more significant due to change to the External Pressure Coefficient (GCp) and different zones. In ASCE 7-10, there are eight other External Pressure Coefficient charts and diagrams, whereas ASCE 7-16 has 14 different charts and diagrams (see Figure 5). There is an overall increase in the coefficient, which increases the wind pressures, which will increase your uplifts, but only if your uplifts are based on C&C wind loading.



Figure 4: "a" Distance



Figure 5: C&C (h<60 ft) External Pressure Coefficient (GC_p) for Enclosed and Partially Enclosed Buildings

FLORIDA BUILDING CODE 7TH EDITION (2020) FROM THE METAL PLATE CONNECTED WOOD TRUSS INDUSTRY

WIND LOAD DESIGN

Main Wind Force Resistance System (MWFRS) is defined as an assemblage of structural elements assigned to provide support and stability for the overall structure. For example, roof trusses, cross bracing, shear walls, and roof diaphragms are part of MWFRS. Components and Cladding (C&C) is defined as an element of the building envelope that does not qualify as part of the MWFRS. For example, fasteners, purlins, stud, and roof trusses are part of C&C. Roof trusses can be designed with either MWFRS or C&C criteria. IntelliVIEW[®] Software uses a combined analysis of both methods to generate wind pressures for a truss.

TRUSS AND JOB COMPARISONS

One of the many jobs Alpine® tested had the following wind design criteria: 130mph, 20/17/0/10 (TCLL/TCDL/BCLL/BCDL), Risk Cat II, Exp=C, and Enclosed Building. These jobs were rerun with two different "Wind Load Types" in IntelliVIEW. One was "Loads and reactions based on MWFRS with additional C&C member design" and the other was "Loads and reactions based on both MWFRS and C&C". Below are the findings:

- Gravity reactions did not change because the code affects only the wind pressures (uplift).
- MWFRS wind pressures produced minimal changes in lumber, plates, and uplift reactions.
- C&C wind pressures produced an increase in lumber, plates, and uplift reactions up to 15%.
- This code change may affect the plates, lumber grades, and uplift reactions.

In summary, the new Florida Building Code, 7th Edition (2020), will go into effect at the end of this year. As a result of the new ASCE 7-16 reference standard, the wood truss industry may see changes to trusses designed under the Florida Building Code's previous editions. There will be little to no changes to materials and uplift reactions when trusses are designed with MWFRS wind pressures, but trusses designed with C&C wind pressures could see an increase to these attributes as high as 15%. 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 aforementioned changes, IntelliVIEW users will see adjustments to truss materials and uplift reactions. The magnitude of these adjustments depends on which "Wind Load Type" the truss designer chooses, and the level of optimization the trusses were designed under the current code.

If Alpine can be of any further assistance or if you have any questions, please call or email us.



William H. Krick P.E. Chief Engineer Engineering Department Alpine an ITW Company Orlando, FL

Reference

- 1. Florida Building Code, 7th Edition (2020)
- 2. ASCE 7-16 Minimum Design Loads and Associated Criteria for Buildings and other Structures
- 3. Introduction to Truss Loading Course Workbook

Image Source:

Figure 1: From the article "Wind Loads – Impacts from ASCE 7-16" by Building A Safer Florida, Inc. Figure 2: ASCE Standards – Immediate PDF Downloads (www.techstreet.com) Structure Magazine / ASCE 7-16 Wind Load Provisions Figure 3: Created internally by the author Figure 4: ASCE 7-16 Chapter 30 Figure 30.3-1 Figure 5: ASCE 7-16 Chapter 30 Figure 30.3-2A

LATEST INTELLIVIEW[®] SOFTWARE RELEASE IMPROVES FLEXIBILITY WITH GABLE STUD OPTIONS



John Croll Portfolio Manager

FLEXIBILITY IN DESIGN, ANALYSIS, AND PRODUCTION

The Gable Stud Options provide flexibility in determining how gable trusses are designed, analyzed, and produced. By fine-tuning the job settings, designers can use IntelliVIEW to automatically frame the gable trusses as desired, saving significant time. At the job level, a designer can determine how the gable studs are initially added. They also have three options for analyzing these gable studs: analyze all the studs, analyze only studs between chords (as opposed to those on the face of the truss), or not analyze any gable studs. These options apply to horizontal girts as well.

Alpine[®] has a long, proven history of bringing engineering and software together to produce better Component Manufacturers results. Alpine's IntelliVIEW[®] design software, industry-leading engineering analysis, and efficient design tools provide designers everything they need to get the job done – right. This partnership has continued through the development of the Alpine Gable Stud Options functionality, which improves the efficiency and productivity of roof truss designers with IntelliVIEW Software version 20.01.01.



Gable truss with non-analyzed, stapled gable studs



Gable with structural webs and non-analyzed girts



Toggle webs between analyzed, non-analyzed

OPTIMIZE TRUSSES QUICKLY

Once the trusses are laid out, the designer can tweak specific gable trusses and individual studs or girts within the trusses to yield the optimal design for each situation. A truss can be gabled or ungabled using a simple setting. Each gable stud, vertical web, or horizontal girt can be toggled to be analyzed or non-analyzed. The designer can also decide to plate the non-analyzed members or leave them as a stapled connection. All these configurations can be set up in advance or modified on the fly as needed. The Gable Stud Option functionality provides designers the ability to quickly and accurately produce the best truss for their business – and customers. Using stapled connections for gable studs may improve production efficiency, while the web toggle feature enables design optimization to minimize material cost.

Contact your local Alpine[®] Sales Representative about how to leverage these tools to improve your business today.

Connection to Alpine Portal

Upload and share 3D Models with customers

View critical business data in dashboards from any browser

Gable Stud Options

Toggle gable studs to be non-analyzed to improve production efficiency

Bearing Legends

Automatic legend note details unique bearing heights

CAD Tools Improved hatching and dimensions tools Improved tools to add and edit panel sheathing

Panel Break in Layout Streamlined panel break workflow

Power Edit

Review and edit walls, panels, and openings to make efficient changes and eliminate mistakes

Single Ply Gables and Overhangs

Flexibility to design one ply differently than the rest



SAY HELLO.

New Alpine® website. Fresh look, better experience. <u>AlpinelTW.com</u>