Alliance
STEEL BUILDING SYSTEMS

PRODUCT CATALOG

WHO WE ARE

ABOUT ALLIANCE

Established in 1973, Alliance Steel Building Systems, a subsidiary of Associated Steel Group, is manufacturer of metal and related components for the construction industry. The company operates as an integrated manufacturer of metal building systems, structural steel elements and components structures specializing in the construction of complex, highly engineered low-rise metal buildings in a wide number of applications, including office and retail buildings, warehouses, manufacturing plants, churches, schools, agricultural buildings and aircraft hangars.

At Alliance, we take immense pride in our work and strive for excellence. Our commitment to innovation drives us to push boundaries and explore new technologies, materials, and design approaches. By collaborating closely with our clients, architects, engineers, and contractors, we develop customized solutions that meet your unique needs.

Choose Alliance Steel Building Systems for superior products and exceptional service. Experience the difference of working with a company that values integrity, innovation, and collaboration. Together, let's build remarkable structures that stand the test of time.

AllianceOKC.com
1-800-624-1579 | info@allianceokc.com

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WHAT WE BUILD

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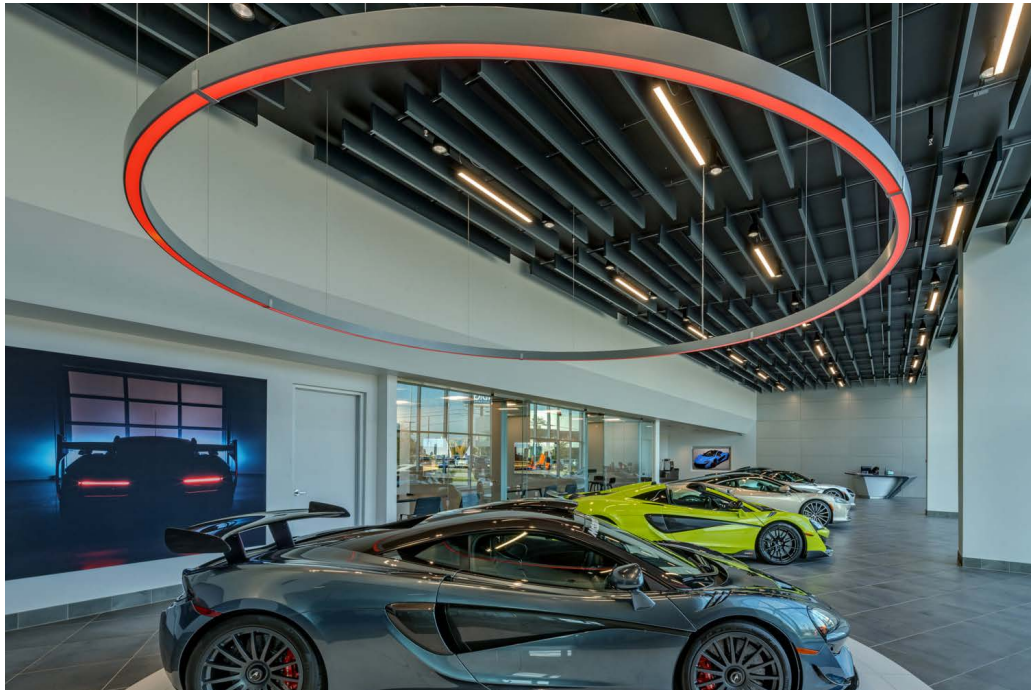
Texas Tech University – School of Veterinary Medicine – Mariposa Station – Amarillo, TX

AGRICULTURE

BARNS TO EQUIPMENT DEALERS

Alliance Steel provides numerous solutions to meet your specific agricultural construction needs – from barns and equipment storage to commercial dealerships.

Big animals need love too. At the Texas Tech School of Veterinary Large Animal Teaching Facility, students are learning general and emergency veterinary healthcare, and procedural medicine for large animals. Housing these gentle beasts and their needed medical facilities, is a job that called on Alliance Steel to provide expertise, along with a lot of framing and sheeting to provide comfort to the big guys, and technology to the aspiring vets. Let's call it a labor of love.



McLaren of Houston – Houston, TX

AUTOMOTIVE

LOCAL TO REGIONAL DEALERSHIPS

We understand the importance of marketing your dealership by building an iconic structure that promotes your brand and drives sales. Alliance Steel offers a wide range of architectural components to meet your dealership's design aesthetics. From exposed beam to custom-designed pillars – we deliver system materials designed to your specifications – all on time and on budget.

The remarkable 16,000 square foot McLaren dealership in Houston, TX, completed in 2020, stands as a testament to our exceptional automotive capabilities. This impressive facility showcases a stunning showroom, a customer seating area with a display of McLaren color options, sales offices, a configuration lounge, and a service shop. The incorporation of Alliance's LT3.3 panel and ABT-32 wall panels in the dealership's design ensures a seamless blend of functionality and aesthetics, further enhancing its overall appeal.

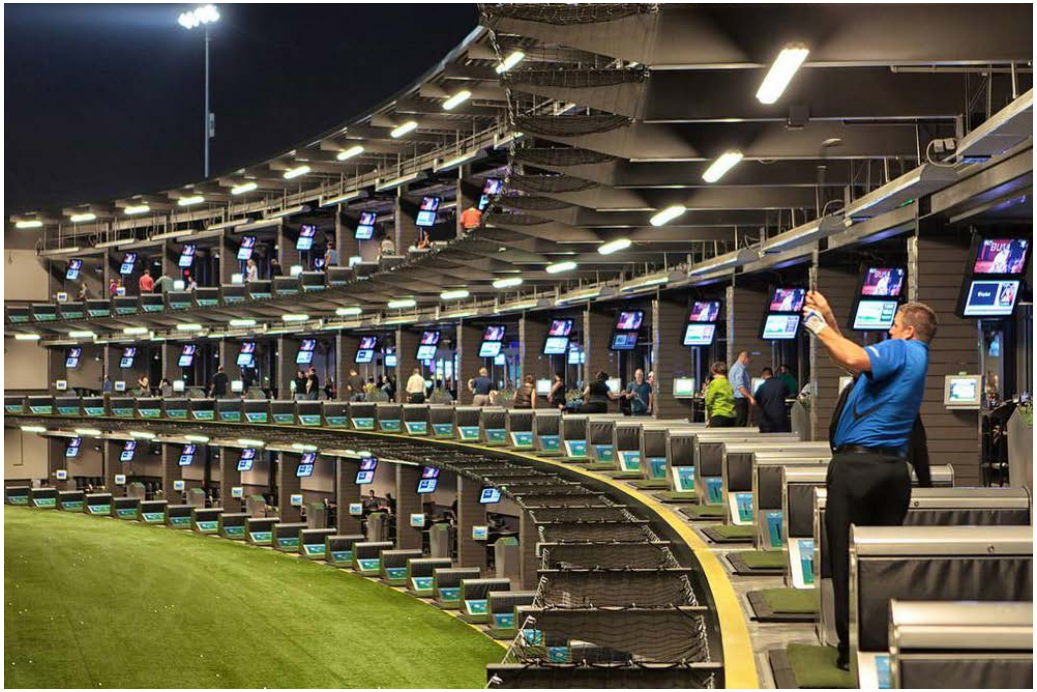
Henriksen Jet Center – Brookshire, TX

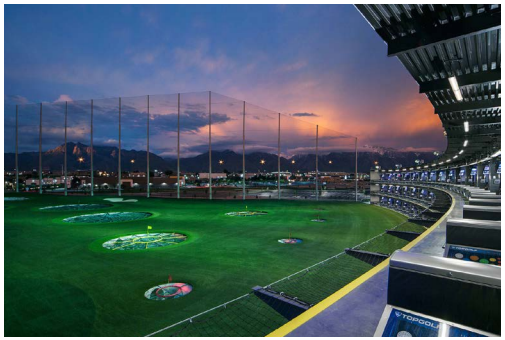
AVIATION

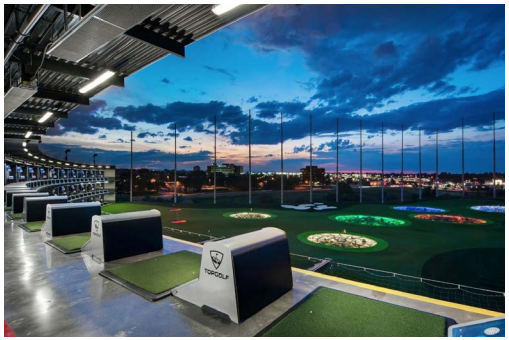
HELIPORTS TO COMMERCIAL HANGARS

Alliance Steel specializes in hangar systems that will meet your specific aviation building needs. From heliports to private or commercial jet hangars – we have the precise solution for your aviation building system requirements.

Located in Brookshire, TX, the Henriksen Jet Center spans 120,000 square feet and was completed in August 2020. This architectural masterpiece stands as a testament to our aviation prowess, showcasing our ability to seamlessly integrate design and manufacturing expertise. Experience the Henriksen Jet Center, where elegance meets functionality, and witness firsthand the remarkable fusion of Alliance's aviation capabilities and the owners' visionary concept.







TopGolf – Dallas, TX

COMMERCIAL RETAIL

OFFICE TO MULTI-UNIT

We offer a wide range of commercial building system design options. From medical, single and multiple story retail to multi-unit office developments – from custom designed components to full project support – we provide high-quality building materials that save you time, money and deliver enduring value.

Alliance Steel was a key contributor to the design build project of TopGolf Dallas, a premier entertainment destination in Dallas, TX. With 74 hitting bays, nine batting cages, three 18-hole miniature golf courses, and a patio and private event space, this remarkable venue spans 23,360 square feet. Alliance Steel worked closely with the architect and contractor to find a unique and cost-effective design solution, resulting in the completion of TopGolf Dallas in May 2020. Their expertise in steel fabrication and construction ensured the seamless integration of structural elements, creating a solid foundation for an inviting and captivating entertainment experience.

Hardesty Center for Dance Education – Tulsa, OK

COMMUNITY

MUNICIPALITIES TO WORSHIP

Our expertise lies in constructing custom components tailored to fulfill the unique requirements of your community building systems. Whether it's for municipalities or places of worship, we provide personalized solutions to cater to your specific building design needs.

Experience the awe-inspiring Hardesty Center for Dance Education, a magnificent 21,200 sq ft marvel nestled in Tulsa, OK. This extraordinary facility, completed in January 2020, flawlessly captures the talent and energy of its esteemed resident, the Tulsa Ballet.

Through meticulous craftsmanship, we infused the passion and fluidity of ballet into every aspect of this stunning building. Its graceful lines and harmonious structure serve as a testament to the artistry and spirit of dance, creating an unparalleled space for the Tulsa Ballet.

Council Grove Elementary – Oklahoma City, OK

EDUCATION

SMALL SCHOOLS TO UNIVERSITIES

Alliance Steel excels in constructing components specifically designed for your school building systems. Whether you have a small school or a sprawling metropolitan campus, we offer tailored solutions to meet your unique school design requirements.

Council Grove Elementary is a fully functional elementary school located in Oklahoma City, OK. Completed in November 2020, this project spans 68,480 square feet, offering a unique and modern aesthetic through the use of various exterior materials. Alliance provided the second-floor materials and tube steel canopy truss system. The school features a full-size gymnasium, a safe room, cupolas, and clear story windows. Council Grove Elementary is proud to serve as a symbol of educational excellence and innovative design.

South Canadian Meats – Thomas, OK

INDUSTRIAL

UNIT STORAGE TO DISTRIBUTION CENTERS

Whether you require multi-unit storage facilities or regional distribution centers, we have the perfect solutions to meet your industrial building system requirements. Our team is dedicated to delivering customized designs that optimize functionality and efficiency for your industrial projects.

They had the hats and the cattle, but they needed a facility to get into the meat marketing business. South Canadian Meats, in Thomas, OK, called and we delivered, building around an existing facility to create a state-of-the-art, USDA-class beef processing facility and retail storefront on the land that nurtures its herd. Now you can get the finest homegrown, highest quality, best tasting select cuts imaginable. We'll take ours medium rare.

Crafton Tull – Yukon, OK

COMMERCIAL

STAND-ALONE TO MULTI-OFFICE COMPLEX

We provide an extensive selection of span, roofing, and wall components to cater to your office building system needs. Whether you require a stand-alone office or a multi-office complex, we offer turnkey building materials that are customized to your specifications. Our focus is on delivering timely and budget-friendly solutions, ensuring your project is completed efficiently and to your satisfaction.

Behold an extraordinary architectural marvel in Yukon, OK, meticulously crafted by our masterful team at Alliance Steel. This collaborative endeavor with Crafton Tull embodies the seamless integration of engineering, architectural design, and our esteemed steel craftsmanship. Unveiled in April 2020, this resplendent structure spanning 13,635 square feet stands as a testament to our unwavering commitment to unparalleled excellence and visionary innovation, showcasing a breathtaking single slope design adorned with conjoining eaves.

COMPONENTS

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ROOFING PANELS

All of our roof panels deliver premium performance while requiring very low maintenance. They also provide excellent energy efficiency and are highly durable. Available in a wide variety of colors, many with up to 30 years limited paint warranties – our panels are made of high-gauge premium commercial grade steel, are fire resistant, hail resistant and wind resistant (up to 140 miles per hour). We have the right roof panel for your next project!

Every Alliance Metal roof is comprised of high-quality materials for added strength and durability.

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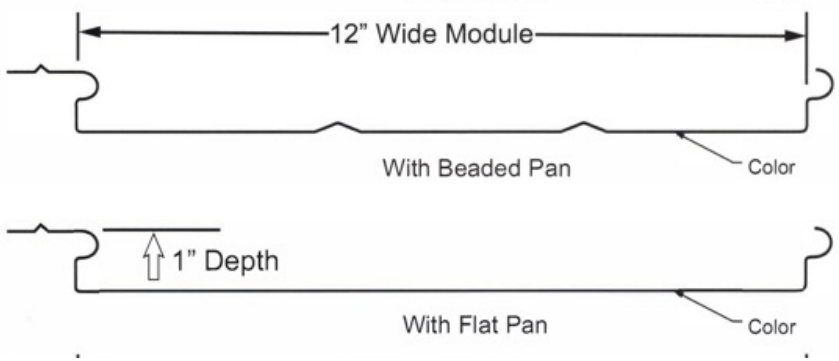
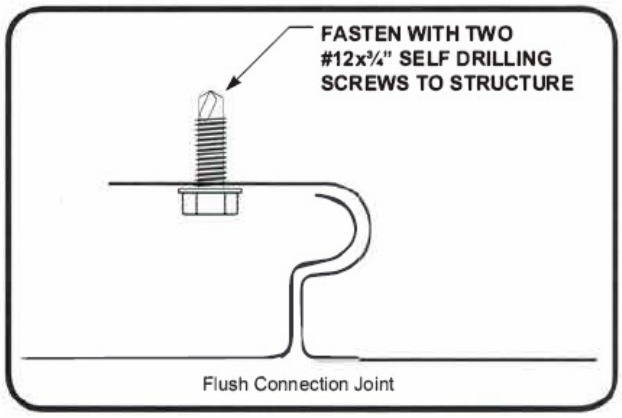
A-12 PANEL

FLUSH SEAM SOFFIT PANEL

The A12 is primarily utilized for soffits, however, can be used for fascias and interior liners, The panel is available in either a flat or with stiffener accent beads at 4" on center running parallel to the side lap joinery. The panel features a concealed fastening system and interlocking side lap design. The panel may be supplied in perforated .024 aluminum in either White or Light Stone S-P paint system for areas that require ventilation. The non-perforated A12 steel panel 24-gauge is available in all ASI color offerings of standard colors.





- 12" Low Profile Flush Panel With A Clean Smooth Appearance
- Painted Steel Soffits Need No Painting Nor Maintenance
- Strong Positive Attachment With Concealed Fasteners
- Low Profile Soffit Easily Nests Inside Framing Members
- Unobtrusive Low Gloss Long Life Paint System
- Available With A Smooth Flat Pan Or Two V Beads - NOT RECOMMENDED
- Perforated Aluminum Option Provides 13.5% Open Venting

SECTION PROPERTIES

	NEGATIVE BENDING		NEGATIVE BENDING			POSITIVE BENDING		
PANEL	Fy	WEIGHT	Ixe	Sxe	Maxo	Ixe	Sxe	Maxo
GAUGE	(KSI)	(PSI)	(IN. 4/FT.)	(IN. 3/FT.)	(KIP-IN.)	(IN. 4/FT.)	(IN. 3/FT.)	(KIP-IN.)
24	50	1.31	0.0271	0.0309	0.9250	0.0178	0.0296	0.8871
22	50	1.65	0.0374	0.0428	1.2829	0.0252	0.0441	1.3199

24 GAUGE (FY=50 KSI)

SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		2.0	2.5	3.0	3.5	4.0	4.5	5.0
SINGLE	POSITIVE WIND LOAD	194.0	99.4	57.5	36.2	24.3	17.0	12.4
2-SPAN	POSITIVE WIND LOAD	142.9	92.5	64.7	47.7	36.6	29.0	23.5
3-SPAN	POSITIVE WIND LOAD	176.0	114.5	80.30	59.40	45.60	32.10	23.4
4-SPAN	POSITIVE WIND LOAD	165.2	107.3	75.2	55.5	42.7	33.8	24.9

24 GAUGE (FY=50 KSI)

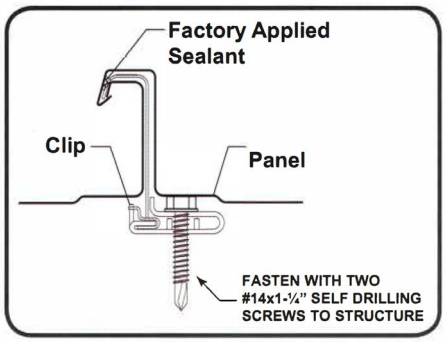
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		2.0	2.5	3.0	3.5	4.0	4.5	5.0
SINGLE	POSITIVE WIND LOAD	194.0	99.4	57.5	36.2	24.3	17.0	12.4
2-SPAN	POSITIVE WIND LOAD	142.9	92.5	64.7	47.7	36.6	29.0	23.5
3-SPAN	POSITIVE WIND LOAD	176.0	114.5	80.30	59.40	45.60	32.10	23.4
4-SPAN	POSITIVE WIND LOAD	165.2	107.3	75.2	55.5	42.7	33.8	24.9

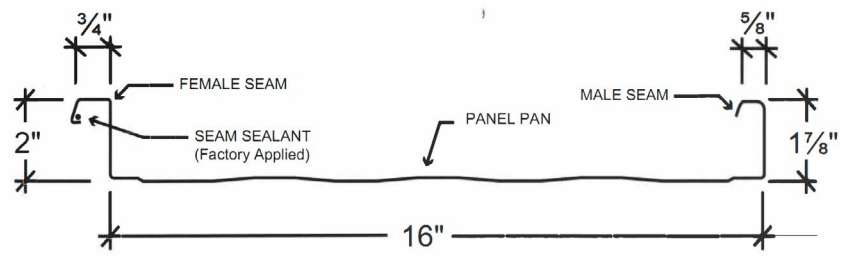
- All calculations for the properties of A12 panels are calculated in accordance with the 1996 edition of the COLD-FORMED STEEL Design Manual, w/ 1999 supplement - published by the American Iron and Steel Institute (AIS1).
- Ixe is for deflection determination.
- Sxe is for Bending.
  Maxo is allowable bending moment.
- All values are for the one foot of panel width.
- Allowable loads are based on uniform span lengths.
- POSITIVE WIND LOAD has been increased by 33.333%
- POSITIVE WIND LOAD is limited by bending, shear, combined shear & bending, or web crippling.
- POSITIVE WIND LOAD is limited by a maximum deflection ratio of L/180 of span.
- Contact Alliance for negative wind load values.

ALOK-16 PANEL

Mechanically Seamed Roof Panel

Alliance Lok -16 (Alok-16) is a 2" vertical rib panel that offers 16" of in place coverage. The Alok-16 panel simple vertical rib design allows for freedom of design for hips, valleys, dormers and other architectural roof features. The panel requires mechanically field seaming which assures the designer, owner and erector a long-term leak free performer when correctly installed. Alok-16 can be installed over open framing on 5'-0" centers while maintaining maximum uplift ratings even in the corner and edge zones in high wind/coastal areas. The panel can be utilized from ice and snow country to high wind coastal areas with excellent performance results without having to adjust the purlin spacings from 5'-0". The panel has been tested for all applications from open sub-framing, wood deck and composite systems. A revolutionary roofing system that offers simple seaming and outstanding weather-tightness protection under all roof loading conditions. Alok-16 is available in all ASI color offerings and several gauges.





- 16" Panel with 2" Structural Standing Seam For Open Framing
- 90° or 180° Mechanical Seam
- Can be used on roof slopes as low as ½:12
- Factory-Applied Sealant In The Female Rib
- Clips Allow A Full 3" Of Thermal Movement
- Ideal For Challenging Hip And Valley Roof Designs
- Available Striated Or With Pencil Stiffener Ribs
- UL 90 Class 580 Wind Uplift Rated.
- FM 4471 Class 1-90 and 1-165 Uplift Rated
- FM Fire and Class 1-SH Hail Resistance Rated
- Army Corps Of Engineers ASTM E-1592 Tested
- ASTM E-1680 Air and E-1646 Water Tested
- Texas Department of Insurance Windstorm Tested
- Weathertight Warranties Available

The AllianceLok 16 panel system has been tested and certified by independent testing agencies and laboratories and achiWed the loads and listings shown below

Underwriters Laboratories Inc. Construction No. 506, 506A, 506B

UL LISTING	PANEL WIDTH	PANEL GAUGE	SEAM TYPE	PURLIN GAUGE	PURLIN SPACING
UL-90	16″	24 ga.	All Seam Types	16 ga.	5′10″

Factory Mutual 4471 Uplift Test Results

AllianceLok 16 roof with TripleLok or QuadLok Seam

FM LISTING	PANEL WIDTH	PANEL GAUGE	PURLIN DEPTH	PURLIN GAUGE	PURLIN SPACING
1-90	t6″	24 ga.	8″	16 ga.	5′10″
1-165	Id″	22 ga.	8″	16 ga.	2′6″

ASTM E 1592 Uplift Test Results

AllianceLok 16 roof with TripleLok Seam

PURLIN SPACING	PANEL WIDTH	PANEL GAUGE	AISI REPORT # C-1432-1
2′0″	1 6″	24 ga.	I 36.4
5′0″	16″	24 ga.	56.6
COE 07416 Factor Of Safety = 1.65			

ASTM E 1592 Uplift Test Results

AllianceLok 16 roof with QuadLok Seam

PURLIN SPACING	PANEL WIDTH	PANEL GAUGE	AISI REPORT # C-1432-1
2′0″	16″	24 ga.	191.2
5′0″	16″	24 ga.	78.8
COE 07416 Factor Of Safety = 1.65			

ASTM E-1680 Air Infiltration @ 1.57 psf = 0.001 CFM/sq.ft
ASTM E-1646 Water Penetration = None @ 50.0 psf

Florida dbpr Department of Business & Professional Regulation

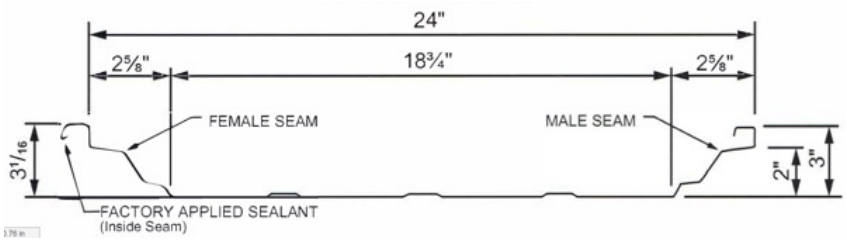
Approval #FL41984

Texas Department of Insurance Windstorm Tested

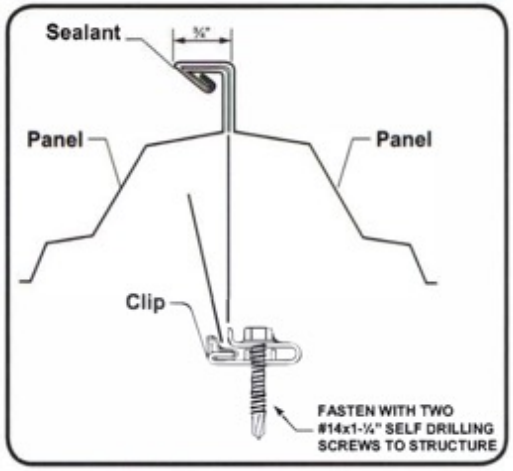
AS-24 PANEL

Alliance Seam 24 Panel

The Alliance Seam 24 (AS-24) trapezoidal rib design provides excellent performance on any roof pitch especially low. The panel requires the ribs to be mechanically field seamed assuring one of the best weather performing standing seam design in the industry today. The panel can be utilized in ice and snow country as well as provide some of the best uplift rated /tested values for coastal or high wind requirement areas. The panel design has been in service many years providing excellent performance results in all applications- open framing composite. AS-24 is a complete Standing Seam Roofing System that offers ease of installation and the security of weather-tightness at a reasonable cost. AS-24 is available in ASI full range of colors and various gauges.



Approval ##FL41984



- 24" Wide Panel Coverage
- Mechanical Seamed TripleLok or QuadLok
- Ideal For Low Slope Applications
- Factory-Applied Sealant In The Female Rib
- Weathertightness Warranties Are Available
- Army Corps Of Engineers ASTM E-1592 Tested
- Texas Department of Insurance Windstorm Tested
- UL 90 Class 580 Wind Uplift Rated
- FM Class 1-90, 1-105, 1-120, 1-165 and 1-180 Rated
- FM Fire And Class 1-SH Hail Resistance Rated
- ASTM E-1680 Air and E-1646 Water Tested

AllianceSeam 24 roof with TripleLok and QuadLok Seam

UL Listing	Panel Width	Panel Gauge	Seam Type	Purlin Gauge	Purlin Spacing
UL-60	24″	24 ga.	All Seam Types	16 ga.	5′0″
UL-90	24″	24 ga.	All Seam Types	16 ga.	5'0″

Texas Department of Insurance Uplift Results QuadLok Seam

Purlin Spacing	Panel Width	Panel Gauge	Report # C-1950-1
2′0″	24″	24 ga.	120.0
5′0″	24″	24 ga.	45.0
Factor Of Safety = 2.0			

ASTM E 1592 Uplift Test Results Alliance Seam 24 roof with QuadLok Seam

Purlin Spacing	Panel Width	Panel Gauge	Report # C-1950-1
2′0″	24″	24 ga.	183.3
5′0″	24″	24 ga.	81.1
Factor Of Safety = 1.65			

Design Load = (Mean Ultimate Load/sf)x 1.33 when allowed by building code

Factory Mutual 4477 Uplift Test Results AllianceSeam 24 roof with TriplcLok or QuadLok Seam

Alliance Seam	Panel Width	Panel Gauge	Seam Type	Purlin Gauge	Purlin Spacing
1-60	24″	24 ga.	8''	16 ga.	5′0″
1-90	24″	24 ga.	8″	16 ga.	4′0″

ASTM E 1592 Uplift Test Results Alliance Seam 24 roof with TripleLok Seam

Purlin Spacing	Panel Width	Panel Gauge	Report # C-l417-1
2'0″	24″	24 ga.	149.7
5′0″	24″	24 ga.	71.2
Factor Of Safety = 1.65			

ASTM E-1680 Air Infiltration @ 1.57 psf = 0.001 CFM/sq.ft
ASTM E-1646 Water Penetration = None @ 20.0 psf

The following recognized certifications and listings have been earned:

Underwriters Laboratories UL-90 Classification Construction No. 556

Factory Mutual Class 1-90, 1-105, 1-120, 1-165 and 1-180 listing. Corps of Engineers CEGS 07416 Uplift Test.

ASTM E 1592 Uplift Test (three tests each span each gauge)

ASTM E 1680 Air Infiltration

ASTM E 1646 Water Leakage

FM Const# 15, 17, 18, 78723, 78724, 78726

Factory Mutual Class 1-SH Severe Hail Rating

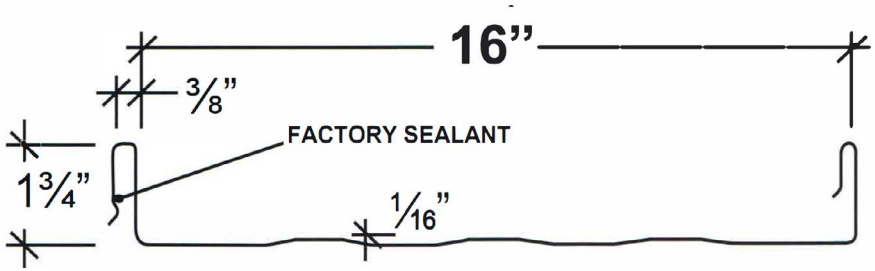
The AllianceSeam 24 roof system utilizing the TS-324™ panel system technology has been tested and certified by independent testing agencies and laboratories and achieved the loads and listings shown below.

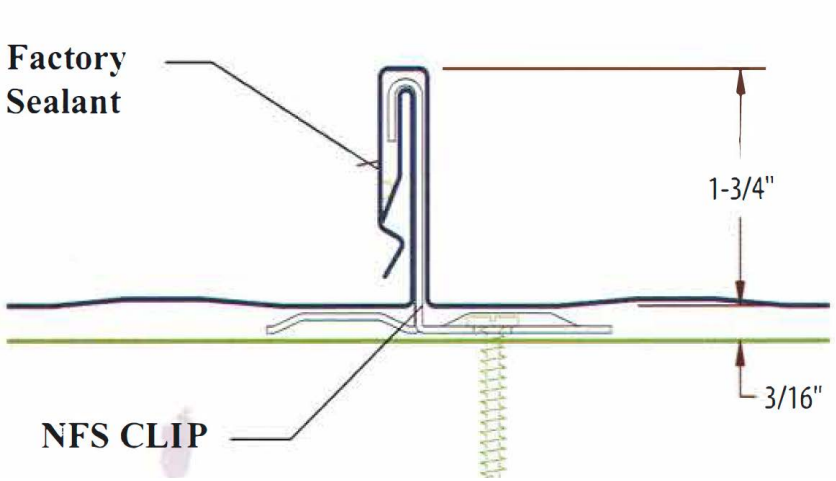
Underwriters Laboratories Inc. Construction No. 556, 556A, 556B

NFS-16 PANEL

Narrow Formed Seam Snaplock Panel

Narrow Formed Seam -16 (NFS-16) panels allow flexibility of design and creativity for the owner and their architect. The panels may be installed over open framing at 4′-0″ centers or solid substrates such as wood deck (5/8″ minimum) with the UL 90 clips placed at 3′-0″ on center. The integral built in locking leg of the panel design does not require any field seaming of any nature. The ease of installation makes this panel an erectors favorite while the architectural appeal makes it an owners dream. NFS-16 makes an excellent roof but, can make any fascia stand out. The panel is available in all ASI colors and in several gauges.





- 16″ Or 18″ Wide Panel Coverage
- Attractive Thin Seam Snap-Together Design
- No Mechanical Seaming Required
- Ideal For Challenging Hip And Valley Roof Designs
- Factory-Applied Sealant In The Female Rib
- Weathertightness Warranties Are Available
- Striated Surface For Consistent Aesthetic Performance
- UL 580 Class 90 wind Uplift Rated
- UL 790 One-Hour Fire Resistance Rated Minimum Roof Slope 3:12
- UL 2218 Class 4 Impact Resistant

SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
Panel Gauge	Fy (KSI)	Weight (PSF)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN.)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN.)
24-	50	1.34	0.0353	0.0452	1.3527	0.0758	0.0519	1.5563
22-	50	1.71	0.0500	0.0665	1.9938	0.1052	0.0731	2.1906

- AJI calculations for the properties of NFS 16 panels are calculated in accordance with the 2001 edition of the North American Specification for Design of Cold-Formed Steel Structural Members.
- Ixe is for deflection determination.
- Sxe is for bending.
- Maxo is allowable bending moment.
- All values are one foot of panel width.

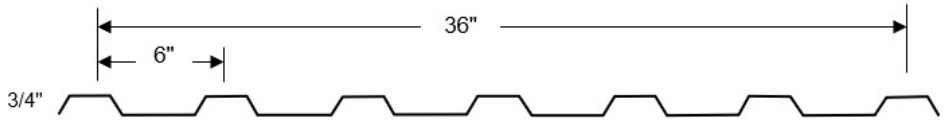
Underwriters Laboratories Approval

Construction Number	Panel Width (in)	Gauge	Clip Type	Clip Spacing	Substrate	UL-2218 Imact Resistance	UL-263 Fire Rating	UL-580 Rating
255	18" max.	24 min.	UL 90	4'-0"	Open Framing	Class 4	Class A	Class 90
303	18" max.	24 min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90
342	18" max.	24 min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90
343	18" max.	24 min.	UL 90	3'-0"	Plywood	Class 4	Class A	Class 90
414	18" max.	24 min.	UL 90	3'-0"	Plywood	Class 4	Class A	Class 90
436	18" max.	24 min.	UL 90	4'-0"	Plywood	Class 4	Class A	Class 90
446	18" max.	24 min.	UL 90	4'-0"	Open Framing	Class 4	Class A	Class 90
448	18" max.	24 min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90
486	18" max.	24 min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90
543	18" max.	24 min.	UL 90	5'-0"	Open Framing	Class 4	Class A	Class 90
543	18" max.	24 min.	UL 90	4'-0"	Open Framing	Class 4	Class A	Class 90
544	18" max.	24 min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90

- Wind uplift test procedures are in accordance with Underwriters Laboratories Standard UL-580 under "Tests For Uplift Resistance of Roof Assemblies".
- A detailed installation method is available for each Construction Number above and can be found in the UL Roofing Materials and Systems Directory. The panels must be installed in a certain manner to achieve the published results.
- The panel qualifies for a Class A fire rating in compliance with Underwriters Laboratories Standard UL-263.
- The panel system is listed under following Fire Resistance Design Numbers: P224, P225, P227, P230, P233, P237, P508, P510, P512, P701, P711, P803. Refer to the UL Fire Resistance Directory for specific construction methods and hourly ratings.
- Narrow Formed Seam 16 Panels carry a Class 4 rating under UL-2218 "Test Standard For Impact Resistance".

M PANEL

The ideal panel for roof, walls, interior liners, decking, fascias, residential and agricultural applications. The through fastened PBM-panels' 3/4" low-profile with 6" on center major rib corrugations are designed for strength and versatility while providing an architectural look. The purlin bearing leg provides assurance that the metal-to-metal lap fasteners are seated properly for a weather-tight long term performance when properly installed. Panels can be reverse run to recess the fasteners into the flutes (major ribs) to shadow/conceal their appearance for soffits, fascias and liners. Available in all Alliance Steel Inc Standard (Weather X) and Premium (Fluropon) colors.



PBM Panel

FEATURES

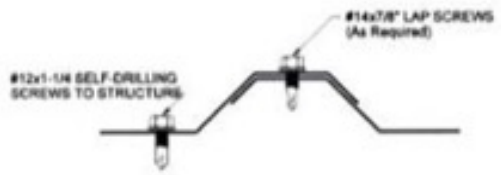
- Direct through fastening system.
- Low profile corrugations designed for strength and versatility.
- 3/4" rib height at 6" on center.
- When used on agricultural roof applications, 3/4" wide lap sealant is provided.

BENEFITS

- Quick and easy installation.
- Ideal panel for liners, decking, and agricultural applications.
- Provides strength yet remains aesthetically pleasing.
- Lap screw placement can vary and still penetrate the sealant.

- **1.0 Slope:** M-Panel is ideal for interior liner and decking applications as well as exterior applications on agricultural buildings
- **2.0 Substructure:** M-Pane is designed to be placed over open structural framing but can be used in conjunction with a solid substructure. To avoid panel distortion, be sure the substructure is uniform and properly aligned.
- **3.0 Coverage:** Each panel has a net coverage width of 36".
- **4.0 Lengths:** Minimum factory cut length is 4'-0. Maximum length is 40'-0.
- **5.0 Fasteners:** Panels are fastened to structural with #12x1¼ self-drilling screws. When used as decking, Sidelaps are fastened together with #14x7/8 self-drilling screws. Refer to erection drawing package for fastener location and spacing.
- **6.0 Availability:** 26 and 29 gauge standard.

Sidelap Detail

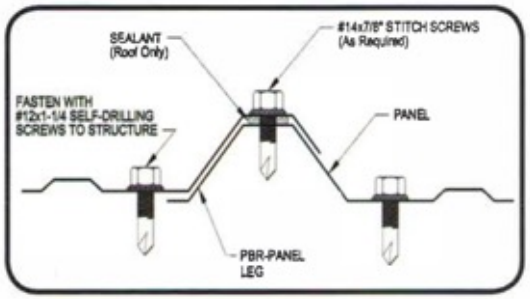


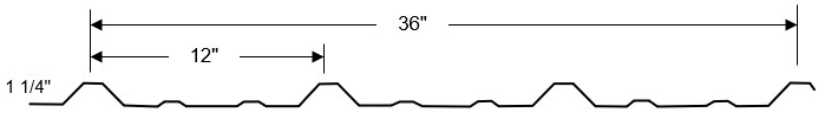
Allowable Uniform Loads for 3 or More Spans in PSF																	
		LIVE LOAD								WIND LOAD							
		Stress				Deflection				Stress				Deflection			
Ga	KSI	2′	3′	4′	5′	2′	3′	4′	5′	2′	3′	4′	5′	2′	3′	4′	5′
26	50	187	83.1	46.7	29.9	187	83.1	46.7	26.0	215	95.7	53.9	34.5	215	81.5	34.4	17.6
29	80	153	68.1	38.3	24.5	153	68.1	35.2	18.0	171	76.0	42.7	27.4	171	57.0	24.1	12.3

- Tabulated values are total allowable loads calculated in accordance with the maximum bending stresses for physical and section properties.
- These load capacities are for the panel itself. Frames, purlins, fasteners, and all supports must be designed to resist all loads imposed by the panel.
- Deflection loads are limited by a maximum deflection ratio of L/180 of span.

R PANEL

PBR panels are ideal for all locations including roofs, walls, interior liners, fascias, soffits and most other locations, PBR-panel features a purlin bearing leg to assure long term performance of lap fasteners metal to metal panel joinery connections when installed properly with the correct sealants. The rugged versatility of the 1 1/4" deep with major ribs at 12" on center panel coupled with the two (2) minors ribs between the larger rib design allows the product to perform well in most applications while excelling in others, The PBR panel is available in a thirteen (13) standard S-P (Weather X) 40 year colors, fourteen (14) fluropon (kynar) – Premium (35 year) Colors and various gauges. This is the through fastened panel of choice for designers, owners, and builders.





PBR

- 36" Wide Panel Coverage With Positive Fastening
- Excellent For Roof, Wall, Soffit and Parapet Backer Applications
- Purlin Bearing Rib Provides Superior Weather Resistance
- Industry Standard Commercial and Residential Profile
- Can Used On Slopes As Low As 1:12 With Field Applied Mastic
- Texas Department Of Insurance Windstorm Tested #RC-433
- UL Class 90 Wind Uplift Rated Over Multiple Substrates
- UL 2218 Class 4 Impact (Hail) Resistance Rating
- UL 263 Class A One-Hour Fire Resistance Rated
- Matching Light Transmitting Panels Are Available
- Available In Several Gauges, Finishes And Colors

SECTION PROPERTIES								
			PANEL TOP IN COMPRESSION			PANEL BOTTOM IN COMPRESSION		
Panel	Fy	Weight	Ixe	Sxe	Maxo	Ixe	Sxe	Maxo
GAUGE	(KSI)	(PSI)	(IN. 4/FT.)	(IN. 3/FT.)	(KIP-IN.)	(IN. 4/FT.)	(IN. 3/FT.)	(KIP-IN.)
26	80	0.85	0.0378	0.0387	1.394	0.0345	0.0458	1.648
24	50	1.11	0.0560	0.0593	1.777	0.0467	0.0603	1.808
22	50	1.38	0.0757	0.0817	2.446	0.0600	0.0757	2.274

	SPAN TYPE	LOAD TYPE	SPAN IN FEET									
			3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
ALLIANCE R-PANEL ALLOWABLE LIVE LOADS - ALL LOADS IN POUNDS PER SQUARE FOOT												
26 Gauge (fy=80 ksi)	SINGLE	STRESS	103.3	75.9	58.1	45.9	37.2	30.7	25.8	22.0	19.0	16.5
		DEFLECTION	103.3	75.9	58.1	45.9	37.2	29.8	22.9	18.0	14.4	11.7
	2-SPAN	STRESS	122.1	89.7	68.7	54.3	44.0	36.3	30.5	26.0	22.4	19.5
		DEFLECTION	122.1	89.7	68.7	54.3	44.0	36.3	29.8	23.5	18.8	15.3
	3-SPAN	STRESS	142.6	104.8	80.2	63.4	51.3	42.4	35.7	30.4	26.2	22.8
		DEFLECTION	142.6	104.8	80.2	63.4	51.3	42.4	35.7	30.4	26.2	22.1
24 Gauge (fy=80 ksi)	SINGLE	STRESS	131.6	96.7	74.0	58.5	47.4	39.2	32.9	28.0	24.2	21.1
		DEFLECTION	131.6	96.7	74.0	58.5	47.4	39.2	32.9	26.7	21.4	17.4
	2-SPAN	STRESS	134.0	98.4	75.3	59.5	48.2	39.9	33.5	28.5	24.6	21.4
		DEFLECTION	134.0	98.4	75.3	59.5	48.2	39.9	33.5	28.5	24.6	21.4
	3-SPAN	STRESS	156.5	115.0	88.0	69.5	56.3	46.6	39.1	33.3	28.7	25.0
		DEFLECTION	156.5	115.0	88.0	69.5	56.3	46.6	39.1	33.3	28.7	25.0
22 Gauge (fy=80 ksi)	SINGLE	STRESS	181.2	133.1	101.9	80.5	65.2	53.9	45.3	38.6	33.3	29.0
		DEFLECTION	181.2	133.1	101.9	80.5	65.2	53.9	45.3	36.1	28.9	23.5
	2-SPAN	STRESS	168.4	123.7	94.7	74.9	60.6	50.1	42.1	35.9	30.9	26.9
		DEFLECTION	168.4	123.7	94.7	74.9	60.6	50.1	42.1	35.9	30.9	26.9
	3-SPAN	STRESS	196.8	144.6	110.7	87.4	70.8	58.5	49.2	41.9	36.1	31.5
		DEFLECTION	196.8	144.6	110.7	87.4	70.8	58.5	49.2	41.9	36.1	31.5

WALL PANELS

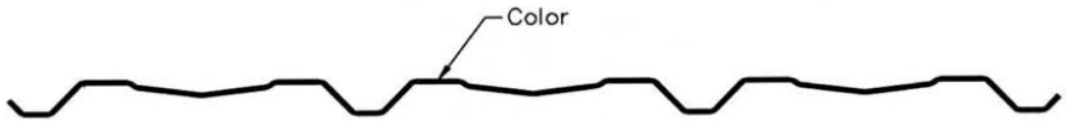
Alliance offers a wide variety of options for exterior, metal building wall panels that add just the right architectural touch for discriminating clients. Our attractive and durable metal building panels feature extra overlap for increased strength and water resistance. Most of our steel panels are coated for weather protection and the color can even be baked onto the panel for an additional layer of protection. If you can design it – we can build it!

STRONG WALL PANELS WITH HIGH-GAUGE AND HIGH-TENSILESTEEL ARE STANDARD IN ALLIANCE STEEL BUILDINGS.

BACK TO TABLE OF CONTENTS

A PANEL

Panel features a direct through-fastening system placing the fasteners in the low portion of the major rib creating a more aesthetically pleasing look. PBA-panel provides strength without sacrificing appearance for wall, liners and soffits. Available in Alliance Steel Inc full line of colors- see color chart for your selection.

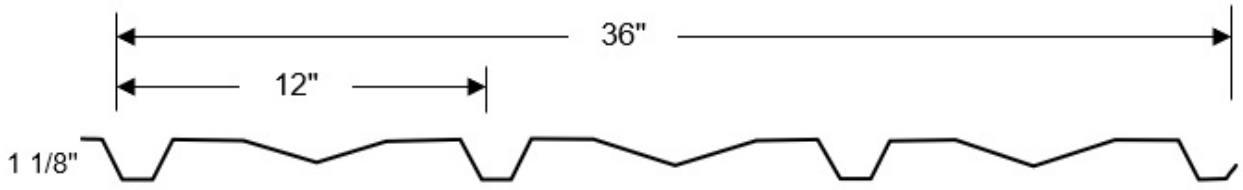


FEATURES

- Direct through fastening system.
- Both structural and lap fasteners placed in low of corrugation.
- 1-1/4" rib depth at 12" on center with intermediate shallow corrugations.
- Architectural profile.
- Available in a wide range of standard colors.

BENEFITS

- May reduce amount of bracing required.
- Fasteners not visible unless viewed from directly in front.
- Provides strength without sacrificing appearance.
- Ideal for walls and fascias.
- Near limitless possibilities for your project.



PBA Panel

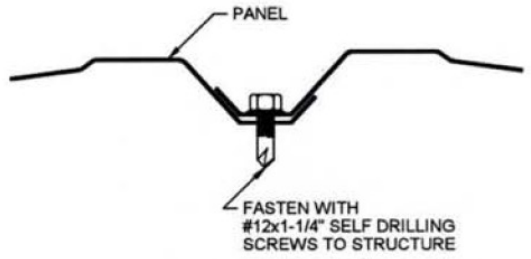
- 1.0 Slope
  A-Panel is intended for vertical installation on building exteriors. May be used as an interior liner for both roof and wall.
- 2.0 Substructure
  A-Panel is designed to be placed over open structural framing but can be used in conjunction with a solid substructure. To avoid panel distortion, be sure the substructure is uniform and properly aligned.
- 3.0 Coverage
  Each panel has a net coverage width of 36".
- 4.0 Lengths
  Minimum factory cut length is 4'-0. Maximum length is 40'-0.
- 5.0 Fasteners
  Panels are fastened to structural with # 12x1¼ self-drilling screws. Sidelaps are fastened together with #14x7/8 self-drilling screws. Refer to erection drawing package for fastener location and spacing.
- 6.0 Availability
  26 gauge standard, 24 gauge optional.

Allowable Uniform Loads for 3 or More Spans in PSF

		Live Load								Wind Load							
		Stress				Deflection				Stress				Deflection			
Ga	KSI	4'	5'	6'	7'	4'	5'	6'	7'	4'	5'	6'	7'	4'	5'	6'	7'
26	80	80.0	51.2	35.5	26.1	80.0	51.2	35.5	23.8	65.7	42.0	29.2	21.4	65.7	42.0	29.2	21.4
24	50	89.2	57.1	39.6	29.1	89.2	57.1	39.6	29.1	86.6	55.4	38.5	28.3	86.6	55.4	38.5	28.3

- Tabulated values are total allowable loads calculated in accordance with the maximum bending stresses for physical and section properties.
- These load capacities are for the panel itself. Frames, purlins, fasteners, and all supports must be designed to resist all loads imposed by the panel.
- Deflection loads are limited by a maximum deflection ratio of L/240 of span.

Sidelap Detail



FW-120 PANEL

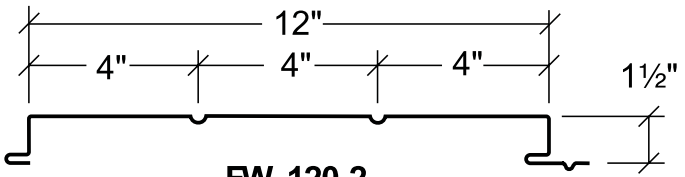
The FW-120 panel is a concealed fastener wall and liner panel that provides a flat appearance. FW-120 is commonly used for architectural, commercial, and industrial markets. The heavy gauge offering provides for large spanning capabilities, particularly in composite wall applications.

FEATURES & BENEFITS

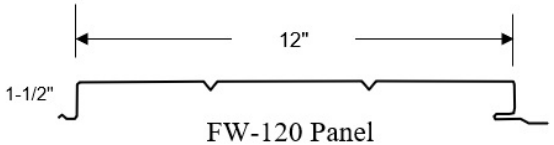
- FW-120 is available in a flat profile with two beads, recommended to minimize appearance of oil canning, or no beads.
- The FW-120 Panel has been tested by a certified independent laboratory in accordance with ASTM test procedures for Air Infiltration and Water Penetration at the sidelap. Test results show no air leakage at 1.57PSF and no water penetration at 6.24PSF differential pressure.
- FW-120 carries Florida product approval.

SPECIFICATIONS

- APPLICATIONS: Wall
- COVERAGE WIDTHS: 12”
- PANEL ATTACHMENT: Concealed Fastening System
- GAUGES: 24 (standard); 22 (optional)
- FINISHES: Weather XL and Kynar
- COATINGS: Signature 200 (standard); Signature 300 (optional)



FW-120-2 with Beads



FW-120 Panel

*Oil canning, a slight waviness inherent in all light gauge metal, may exist in the FW-120 panel. This minor waviness does not affect the finish or structural integrity of the panel and is therefore not cause for rejection.

CATEGORY	CHARACTERISTIC	TEST METHOD	PURPOSE	RESULT
Environmental	Air leakage	ASTM E283	Determines the air leakage rates of exterior windows, curtain walls, and doors under specified air pressure differences across the specimen	0.000 cfm/ft2 at 6.24 psf static pressure 0.113 cfm/ft2 at 20.00 psf static pressure
	Water Penetration	ASTM E331	Determines the resistance of exterior windows, curtain walls, skylights, and doors to water penetration when water is applied under uniform static air pressure difference	No uncontrolled water penetration through the panel joints at a static pressure of 13.24 psf
Structural	Negative Wind Loads	ASTM E1592	Provides a standard procedure to evaluate or confirm structural performance under uniform static air pressure difference	See Load Chart Section
	Positive Wind Load	AISI S100	North American Specification for the Design of Cold-Formed-Steel Structural Members	See Section Properties and Allowable Load Table Section
Roof Listings	Roof Performance-Florida Approval	ASTM E1592	Florida product approval is the approval of products and systems, which comprise the building envelope and structural frame, for compliance with the structural requirements of the Florida Building Code	Application Pending

SECTION PROPERTIES 12" WIDE, 50 KSI FW-120 WALL PANEL

Gauge	Thickness In.	Weight PSF	Allowable Shear	Moment of Inertia	Top in Compression (Positive Bending)			Bottom in Compression (Negative Bending)		
			V_a kips/ft	I_x in⁴/ft	I_{xe} in⁴/ft	S_{xe} in³/ft	M_3 in.kips/ft	I_{xe} in⁴/ft	S_{xe} in³/ft	M_3 in.kips/ft
24	0.0230	1.342	1.00	0.1135	0.0483	0.0566	1.416	0.1070	0.0884	2.646
22	0.0285	1.662	1.22	0.1410	0.0648	0.0786	2.354	0.1350	0.1116	3.343

- Panel coverage width is 12"
- Section properties and allowables are calculated in accordance with North American Specification for the Design of Cold-Formed Steel Structural Members (2012 & 2016 Edition)
- I_x is full moment of inertia, I_{xe} +/- & S_{xe} +/- are effective moment of inertia and section modulus, M_a is allowable bending moment and V_a is allowable shear.
- All values are for one foot of panel width.
- Minimum deliverable bare steel thickness should not be less than 0.95 of design thickness.

Preparatory Requirements: Reference FW-120 Installation guide

12" WIDE, 50 KSI FW-120 WALL PANEL										
Allowable Inward Loads (lb/ft										
Guage	Span Condition		Span (ft)							
			2	2.5	3	3.5	4	4.5	5	6
24	SS	Stress	236.0	151.0	104.9	77.1	59.0	46.6		26.2
		L/180	527.7	270.2	156.4	98.5	66.0	46.3		19.5
	DS	Stress	385.8	258.0	183.9	137.3	105.4	83.2		46.8
		L/180	1270.1	650.3	376.3	237.0	158.8	111.5		47.0
	TS	Stress	382.1	244.6	169.8	124.8	95.5	75.5		42.5
		L/180	995.9	509.9	295.1	185. 8	124.5	87.4		36.9
22	SS	Stress	392.3	251.1	174.4	128.1	98.1	77.5		43.6
		L/180	708.0	362.5	209.8	132.1	88.5	62.2		26.2
	DS	Stress	484.2	324.5	231.5	173.0	134.0	106.7		60.8
		L/180	1704.0	872.5	504.9	318.0	213.0	149.6	109.1	63.1
	TS	Stress	546.3	369.8	265.5	199.2	154.7	123.5	100.7	70.6
		L/180	1336.1	684.1	395.9	249.3	167.0	117.3	85.5	49.5

12" WIDE, 50 KSI FW-120 WALL PANEL										
Allowable Inward Loads (lb/ft										
Guage	Span Condition		Span (ft)							
			2	2.5	3	3.5	4	4.5	5	6
24	SS	Stress	441.0	282.2	196.0	144.0	110.3	87.1	70.6	49.0
		L/180	1169.1	598.6	346.4	218.1	146.1	102.6	74.8	43.3
	DS	Stress	226.3	147.0	102.9	76.0	58.4	46.2	37.5	26.1
		L/180	2813.7	1440.6	833.7	525.0	351.7	247.0	180.1	104.2
	TS	Stress	261.1	170.2	119.5	883	67.9	53.8	43.7	30.4
		L/180	2206.1	1129.5	653.7	411. 6	275.8	193.7	141.2	81.7

22	SS	Stress	557.2	356.6	247.6	181.9	139.3	110.1	89.1	61.9
		L/180	1475.0	755.2	437.0	275.2	184.4	129.5	94.4	54.6
	DS	Stress	364.1	239.1	168.5	124.9	96.2	76.3	62.0	43.2
		L/180	3550.0	1817.6	1051.9	662.4	443.8	311.7	227.2	131.5
	TS	Stress	416.9	275.4	194.8	144.7	111.6	88.7	72.1	50.3
		L/180	2783.4	1425.1	824.7	519.4	347.9	244.4	178.1	103.1

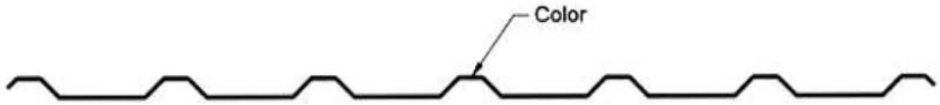
- Allowable load based on stress is the smallest load due to bending, shear and combined bending and shear.
- Allowable load based on deflection limit cannot exceed allowable load based on stress.
- These loads are for panel strength. Fasteners, girts, frames and all connections must be designed to resist all oads imposed on the panel. Allowable load does not address web crippling or load testing.
- Allowable uplift loads based on stress have not been increased by 33.33% for wind uplift.
- Allowable loads for deflection are based on deflection limitation of span/180.
- SS = Simple span, DS = Double Span and TS = Three or more spans.

Florida dbpr Department of Business & Professional Regulation

Approval # 41985.1

M PANEL

The ideal panel for roof, walls, interior liners, decking, fascias, residential and agricultural applications. The through fastened PBM-panels' 3/4" low-profile with 6" on center major rib corrugations are designed for strength and versatility while providing an architectural look. The purlin bearing leg provides assurance that the metal-to-metal lap fasteners are seated properly for a weather-tight long term performance when properly installed. Panels can be reverse run to recess the fasteners into the flutes (major ribs) to shadow/conceal their appearance for soffits, fascias and liners. Available in all Alliance Steel Inc Standard (Weather X) and Premium (Fluropon) colors.

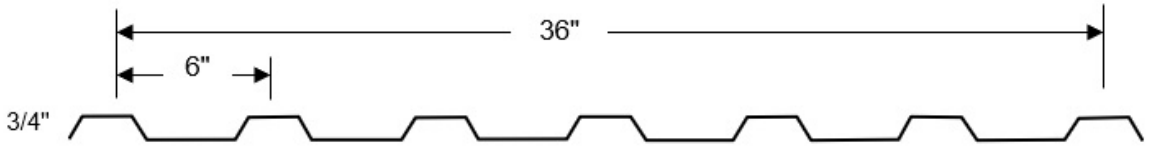


FEATURES

- Direct through fastening system.
- Low profile corrugations designed for strength and versatility.
- 3/4" rib height at 6" on center.
- When used on agricultural roof applications, 3/4" wide lap sealant is provided.

BENEFITS

- Quick and easy installation.
- Ideal panel for liners, decking, and agricultural applications.
- Provides strength yet remains aesthetically pleasing.
- Lap screw placement can vary and still penetrate the sealant.



PBM Panel

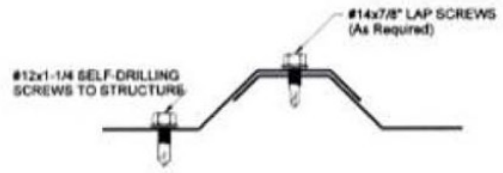
- 1.0 Slope
  M-Panel is ideal for interior liner and decking applications as well as exterior applications on agricultural buildings
- 2.0 Substructure
  M-Pane is designed to be placed over open structural framing but can be used in conjunction with a solid substructure. To avoid panel distortion, be sure the substructure is uniform and properly aligned.
- 3.0 Coverage
  Each panel has a net coverage width of 36".
- 4.0 Lengths
  Minimum factory cut length is 4'-0. Maximum length is 40'-0.
- 5.0 Fasteners
  Panels are fastened to structural with #12x1¼ self-drilling screws. When used as decking, Sidelaps are fastened together with #14x7/8 self-drilling screws. Refer to erection drawing package for fastener location and spacing.
- 6.0 Availability
  26 and 29 gauge standard.

Allowable Uniform Loads for 3 or More Spans in PSF

		Live Load								Wind Load							
		Stress				Deflection				Stress				Deflection			
Ga	KSI	2′	3′	4′	5′	2′	3′	4′	5′	2′	3′	4′	5′	2′	3′	4′	5′
26	50	187	83.1	46.7	29.9	187	83.1	46.7	26.0	215	95.7	53.9	34.5	215	81.5	34.4	17.6
29	80	153	68.1	38.3	24.5	153	68.1	35.2	18.0	171	76.0	42.7	27.4	171	57.0	24.1	12.3

- Tabulated values are total allowable loads calculated in accordance with the maximum bending stresses for physical and section properties.
- These load capacities are for the panel itself. Frames, purlins, fasteners, and all supports must be designed to resist all loads imposed by the panel.
- Deflection loads are limited by a maximum deflection ratio of L/180 of span.

Sidelap Detail

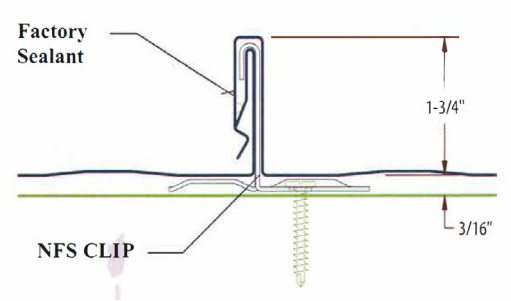


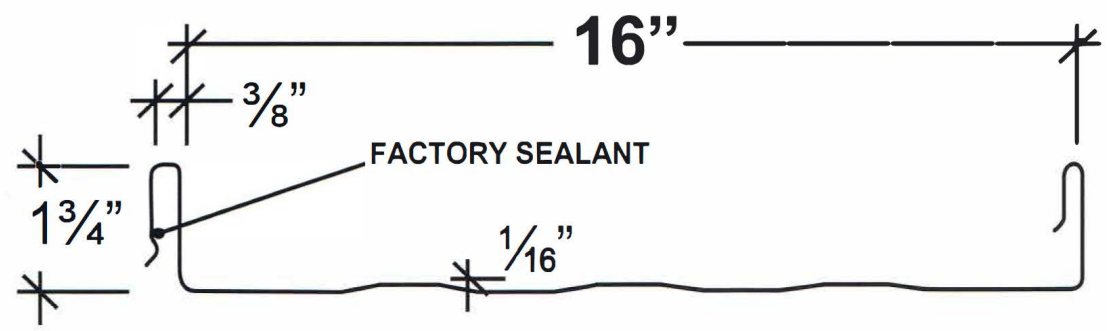
SNAPLOK 16

Narrow Formed Seam -16 (NFS-16) panels allow flexibility of design and creativity for the owner and architect. The panels may be installed over open framing at 4′-0″ centers or solid substrates such as wood deck (5/8″ minimum) with the UL 90 clips placed at 3′-0″ on center. The intergal built-in locking leg of the panel design does not require any field seaming. The ease of installation makes this panel an erector's favorite while the architectural appeal makes it an owner's dream. NFS-16 makes an excellent roof and can make any fascia stand out. The panel is available in all ASI colors and in several gauges.

FEATURES

- 16″ Or 18″ Wide Panel Coverage
- Attractive Thin Seam Snap-Together Design
- No Mechanical Seaming Required
- Ideal For Challenging Hip And Valley Roof Designs
- Factory-Applied Sealant In The Female Rib
- Weather tightness Warranties Are Available
- Striated Surface For Consistent Aesthetic Performance
- UL 580 Class 90 wind Uplift Rated
- UL 790 One-Hour Fire Resistance Rated Minimum Roof Slope 3:12
- UL 2218 Class 4 Impact Resistant





SECTION PROPERTIES								
			Negative Bending			Positive Bending		
Panel Gauge	Fy (KSI)	Weight (PSF)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN)
24-	50	1.34	0.0353	0.0452	1.3527	0.758	0.0519	1.5563
22-	50	1.71	0.0500	0.0665	1.9938	0.1052	0.0731	2.1906

- AJI calculations for the properties of NFS 16 panels are calculated in accordance with the 2001 edition of the North American Speclfication for Deslgn of Cold- Formed Steel Structural Members.
- Ixe is for deflection determination.
- Sxe is for bending.
- Maxo is allowable bending moment.
- All values are one foot of panel width.

UNDERWRITERS LABORATORIES APPROVAL								
Construction Number	Panel Width (in.)	Guage	Clip Type	Clip Spacing	Substrate	UL-2218 Impact Resistance	UL-263 Fire Rating	UL-60 Rating
255	18" max.	24" min.	UL 90	4'-0"	Open Framing	Class 4	Class A	Class 90
303	18" max.	24" min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90
342	18" max.	24" min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90
343	18" max.	24" min.	UL 90	3'-0"	Plywood	Class 4	Class A	Class 90
414	18" max.	24" min.	UL 90	3'-0"	Plywood	Class 4	Class A	Class 90
436	18" max.	24" min.	UL 90	4'-0"	Plywood	Class 4	Class A	Class 90
446	18" max.	24" min.	UL 90	4'-0"	Open Framing	Class 4	Class A	Class 90
448	18" max.	24" min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90
486	18" max.	24" min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90
543	18" max.	24" min.	UL 90	5'-0"	Open Framing	Class 4	Class A	Class 90
543	18" max.	24" min.	UL 90	4'-0"	Open Framing	Class 4	Class A	Class 90
544	18" max.	24" min.	UL 90	4'-0"	Composite System	Class 4	Class A	Class 90

- Wind uplift test procedures are in accordance with Underwriters Laboratories Standard UL-580 under "Tests For Uplift Resistance of Roof Assemblies".
- A detailed installation method is available for each Construction Number above and can be found in the UL Roofing Materials and Systems Directory. The panels must be installed in a certain manner to achieve the published results.
- The panel qualifies for a Class A fire rating in compliance with Underwriters Laboratories Standard UL-263.
- The panel system is listed under following Fire Resistance Design Numbers: P224, P225, P227, P230, P233, P237, P508, P510, P512, P701, P711, P803. Refer to the UL Fire Resistance Directory for specific construction methods and hourly ratings.
- Narrow Formed Seam 16 Panels carry a Class 4 rating under UL-2218 "Test Standard For Impact Resistance".

REVERSE R PANEL

Reverse R-Panels feature an architectural type of profile. The panels are ideal for walls and fascias. Reverse R-Panels feature a direct through-fastening system with fasteners placed in low of corrugations, providing strength while remaining aesthetically pleasing. Intended for vertical installation on building exteriors, panel may be used as an interior liner for both roof and wall. Available in a wide range of standard colors and gauges.

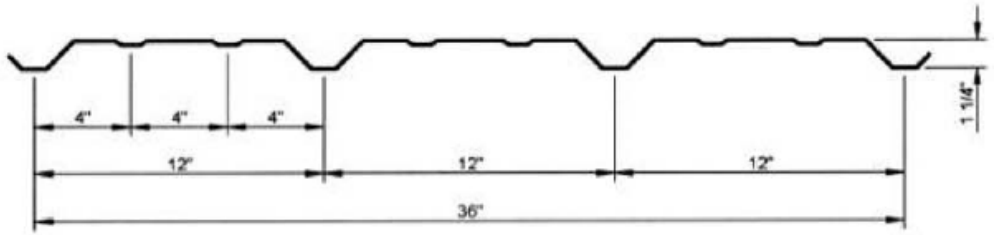
FEATURES

- Direct through fastening system.
- Both structural and lap fasteners placed in low of corrugations.
- Architectural type profile.
- 1-1/4" rib depth at 12" on center with Intermediate minor ribs.
- Available in a wide range of standard colors and gauges.

BENEFITS

- May reduce amount of bracing required
- Fasteners not visible unless viewed from directly in front.
- ideal for walls and fascias
- Provides strength yet remains aesthetically pleasing
- Near limitless possibilities for your project.

Panel Detail



- 1.0 Slope
  Reverse R-Panel is intended for vertical installation on building exteriors. May be used as an interior liner for both roof and wall.
- 2.0 Substructure
  Reverse R-Panel is designed to be placed over open structural framing but can be used in conjunction with a solid substructure. To avoid panel distortion, be sure the substructure is uniform and properly aligned.
- 3.0 Coverage
  Each panel has a net coverage width of 36"
- 4.0 Lengths
  Minimum factory cut length is 4'-0. Maximum length is 40'-0.
- 5.0 Fasteners
  Panels are fastened to structurals with #12x1 1/4 self-drilling screws. Sidelaps are fastened together with #14x7/8 self- drilling screws. Refer to erection drawing package for fastener location and spacing.
- 6.0 Availability
  26 gauge standard, 24 gauge optional.

Allowable Uniform Loads for 3 or More Spans in PSF

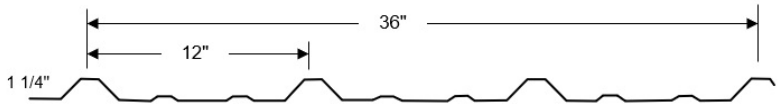
		Live Load								Wind Load							
		Stress				Deflection				Stress				Deflection			
GA	KSI	4'	5'	6'	7'	4'	5'	6'	7'	4'	5'	6'	7'	4'	5'	6'	7'
26	80	67.9	43.4	30.2	22.2	67.9	43.4	30.2	22.2	80.2	51.3	35.7	26.2	80.2	51.3	35.7	26.2
24	50	86.5	55.4	38.4	28.2	86.5	55.4	38.4	28.2	88.0	56.3	39.1	28.7	88.0	56.3	39.1	28.7

- Tabulated values are total allowable loads calculated in accordance with the maximum bending stresses for physical and section properties.
- These load capacities are for the panel itself. Frames, purlins, fasteners, and all supports must be designed to resist all loads imposed by the panel.
- Deflection loads are limited by a maximum deflection ratio of L/240 of span.

Sidelap Detail

R PANEL

PBR panels are ideal for all locations including roofs, walls, interior liners, fascias, soffits and most other locations. PBR-panel features a purlin bearing leg, assuring long term performance of lap fasteners metal to metal panel joinery connections. The rugged versatility of the 1 1/4⍰ deep with major ribs at 12⍰ on center panel coupled with the two (2) minor ribs between the larger rib design allows the product to perform well in most applications. The PBR panel is available in a thirteen (13) standard S-P (Weather X) 40 year colors, fourteen (14) fluropon (kynar) – Premium (35 year) colors and various gauges. This is the through fastened panel of choice for designers, owners, and builders.



PBR

FEATURES

- Direct through fastening system.
- Designed for strength and versatility.
- 1-1/4" rib height at 12" on center with intermediate minor ribs.
- Available in a wide range of standard colors and gauges.
- UL 90 listed.
- 3/4" wide lap sealant.

BENEFITS

- May reduce amount of bracing required.
- Ideal panel for roofs, walls, and most other locations.
- Provides strength yet remains aesthetically pleasing
- Near limitless possibilities for your project
- Can be used in most applications
- Roof lap screw placement can vary and still penetrate the sealant.

- 1.0 Slope
  R-Panel is ideal for both roof and wall applications. The minimum recommeneded roof slope for R-Panel is 1:12. When used as roof panels, sealant must be applied to both sidelaps and endlaps. May be used as an interior liner for both roof and wall.
- 2.0 Substructure
  R-Panel is designed to placed over open structural framing but can be used in conjunction with a solid substructure. To avoid panel distortion, be sure the substructure is uniform and properly aligned.
- 3.0 Coverage
  Each panel has a net coverage width of 36"
- 4.0 Lengths
  Minimum factory cut length is 4'-0. Maximum length is 40'-0.
- 5.0 Fasteners
  Panels are fastened to structurals with #12x1 1/4 self-drilling screws. Sidelaps are fastened together with #14x7/8 self- drilling screws. Refer to erection drawing package for fastener location and spacing.
- 6.0 Availability
  26 gauge standard, 24 gauge optional.

Allowable Uniform Loads for 3 or More Spans in PSF

		Live Load								Wind Load							
		Stress				Deflection				Stress				Deflection			
GA	KSI	4'	5'	6'	7'	4'	5'	6'	7'	4'	5'	6'	7'	4'	5'	6'	7'
26	80	80.2	51.3	35.7	26.2	80.2	51.3	35.7	26.2	67.9	43.4	30.2	22.2	67.9	43.4	30.2	22.2
24	50	88.0	56.3	39.1	28.7	88.0	56.3	39.1	28.7	86.5	55.4	38.4	28.2	86.5	55.4	38.4	28.2

- Tabulated values are total allowable loads calculated in accordance with the maximum bending stresses for physical and section properties.
- These load capacities are for the panel itself. Frames, purlins, fasteners, and all supports must be designed to resist all loads imposed by the panel.
- Deflection loads are limited by a maximum deflection ratio of L/240 of span. Tabulated values are total allowable loads calculated in accordance with the maximum bending stresses for physical and section properties.
- These load capacities are for the panel itself. Frames, purlins, fasteners, and all supports must be designed to resist all loads imposed by the panel.
- Deflection loads are limited by a maximum deflection ratio of L/240 of span.

Sidelap Detail

7.2 PANEL

- 36" Wide Panel Coverage
- Bold Symmetrical Ribs For Dramatic Shadow Effects
- Can Be Applied Horizontally Or Vertically
- Available Mitered Corners For Continuity Around Edges
- Excellent Cladding For Commercial And Industrial Applications
- Long Span Capability Saves Money On Structural Framing
- UL Class 90 Wind Uplift Rated Over Open Framing
- Matching Light Transmitting Panels Are Available

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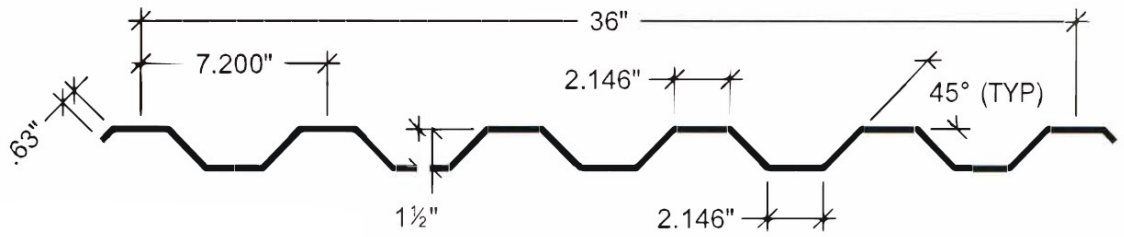
Symmetrically Corrugated 7.2 Rib



SECTION PROPERTIES								
			Negative Bending			Positive Bending		
Panel Gauge	Fy (KSI)	Weight (PSF)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN)
29	60 *	0.66	0.0426	0.0418	1.502	0.0426	0.0418	1.502
26	60 *	0.86	0.0643	0.0680	2.4424	0.0643	0.0680	2.4424
24	50	1.06	0.0918	0.1037	3.1046	0.0918	0.1037	3.1046
22	50	1.36	0.1252	0.1459	4.3671	0.1252	0.1459	4.3671

- Fy is 80-ksi reduced to 60-ksi in accordance with the 2001 edition of the North American Specification For Design of Cold-Formed Steel Structural Members - A2.3.2.
- All calculations for the properties of LT 3.3 panels are calculated in accordance with the 2001 edition of the North American Specification For Design of Cold-Formed Steel Structural Members.
- Ixe is for deflection determination.
- Sxe is for Bending.
- Maxo is allowable bending moment.
- All values are for the one foot of panel width.

29 GAUGE (FV=60 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
SINGLE	NEGATIVE WIND LOAD	111.3	62.6	40.1	27.8	20.4	15.6	12.4
	LIVE LOAD/DEFLECTION	82.5	58.2	29.8	17.2	10.9	7.3	5.1
2-SPAN	NEGATIVE WIND LOAD	111.3	62.6	40.1	27.8	20.4	15.6	12.4
	LIVE LOAD/DEFLECTION	76.2	56.0	37.2	26.4	19.6	15.2	12.1
3-SPAN	NEGATIVE WIND LOAD	139.1	78.2	50.1	34.8	25.5	19.6	15.5
	LIVE LOAD/DEFLECTION	86.6	64.9	45.1	32.3	20.5	13.7	9.6
4-SPAN	NEGATIVE WIND LOAD	129.9	73.0	46.7	32.5	23.9	18.3	14.4
	LIVE LOAD/DEFLECTION	83.3	62.54	42.6	30.4	21.7	14.6	10.2

26 GAUGE (FV=60 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
SINGLE	NEGATIVE WIND LOAD	180.9	101.8	65.1	45.2	33.2	25.4	20.1
	LIVE LOAD/DEFLECTION	153.7	87.8	45.0	26.0	16.4	11.0	7.7
2-SPAN	NEGATIVE WIND LOAD	180.9	101.8	65.1	45.2	33.2	25.4	20.1
	LIVE LOAD/DEFLECTION	129.7	97.3	77.8	62.7	39.5	26.4	18.6
3-SPAN	NEGATIVE WIND LOAD	226.1	127.2	81.4	56.5	41.5	31.8	25.1
	LIVE LOAD/DEFLECTION	147.4	110.5	76.8	49.1	30.9	20.7	14.5
4-SPAN	NEGATIVE WIND LOAD	211.2	118.8	76.0	52.8	38.8	29.7	23.5
	LIVE LOAD/DEFLECTION	141.8	106.4	72.1	50.9	32.8	22.0	15.4

24 GAUGE (FY=60 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
SINGLE	NEGATIVE WIND LOAD	230.0	129.4	82.8	57.5	42.2	32.3	25.6
	LIVE LOAD/DEFLECTION	205.0	125.4	64.2	37.1	23.4	15.7	11.0
2-SPAN	NEGATIVE WIND LOAD	230.0	129.4	82.8	57.5	42.2	32.3	25.6
	LIVE LOAD/DEFLECTION	163.1	122.3	81.2	56.7	41.8	32.1	25.4
3-SPAN	NEGATIVE WIND LOAD	287.5	161.7	103.5	71.9	52.8	40.4	31.9
	LIVE LOAD/DEFLECTION	185.4	139.0	100.6	70.1	44.1	29.6	20.8
4-SPAN	NEGATIVE WIND LOAD	268.4	151.0	96.6	67.1	49.3	37.7	29.8
	LIVE LOAD/DEFLECTION	178.4	133.8	94.2	65.9	46.9	31.4	22.0

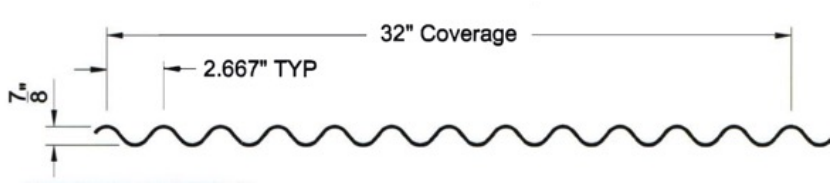
22 GAUGE (FV=60 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
SINGLE	NEGATIVE WIND LOAD	323.5	182.0	116.5	80.9	59.4	45.5	35.9
	LIVE LOAD/DEFLECTION	323.5	171.0	87.5	50.7	31.9	21.4	15.0
2-SPAN	NEGATIVE WIND LOAD	323.5	182.0	116.5	80.9	59.4	45.5	35.9
	LIVE LOAD/DEFLECTION	305.1	175.9	113.9	79.6	58.7	45.1	35.7
3-SPAN	NEGATIVE WIND LOAD	404.4	227.5	145.6	101.1	74.3	56.9	44.9
	LIVE LOAD/DEFLECTION	300.5	216.5	141.1	98.9	60.2	40.3	28.3
4-SPAN	NEGATIVE WIND LOAD	377.6	212.4	135.9	94.4	69.3	53.1	42.0
	LIVE LOAD/DEFLECTION	289.2	203.4	132.2	92.6	63.9	42.8	30.1

- Allowable loads are based on uniform span length and Fy - 50 and 60-ksi..
- LIVE LOAD is limited by bending, shear, combined shear & bending, or web cripping.
- NEGATIVE WIND LOAD docs not contain a 33.333% increase and does not consider fastener pullout or pullover.
- Above loads consider a maximum deflection ratio of L/180.
- The weight of panel has not been deducted from the allowable loads.
- The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
- This material is subject to change without notice.

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the North American Specification for the Design of Cold-Formed Steel Structural Members published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.

C PANEL

- ×32″ Wide Panel Coverage Combines Simplicity And Function
- Smooth Symmetrical Ribs For Bold Shadowline Effects
- 7 /8″ Deep Ribs Are Nine Times Stronger Than Old Corrugated
- Can Be Applied Horizontally Or Vertically.
- Available Mitered Corners For Continuity Around Edges
- Utilizes The Latest Technology While Preserving Nostalgia
- Excellent Cladding For Roof, Wall, Liner Or Fascia Accents
- Matching Light Transmitting Panels Are Available
- Available In Several Gauges, Finishes And Colors
- UL 2218 Impact And 1-Hour UL 790 Fire Resistance Tested



FEATURES

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SECTION PROPERTIES								
			Negative Bending			Positive Bending		
Panel Gauge	Fy (KSI)	Weight (PSF)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN)
29	60*	0.84	0.0187	0.0405	1.4547	0.0187	0.0405	1.4547
26	60*	1.06	0.0249	0.055	1.9759	0.0249	0.055	1.9759
24	50	1.28	0.0318	0.0711	2.1296	0.0318	0.0711	2.1296
22	50	1.62	0.0415	0.0905	2.7099	0.0415	0.0905	2.7099

- Fy is 80-ksi reduced to 60-ksi in accordance with the 2001 edition of the North American Specification For Design of Cold-Formed Steel Structural Members - A2.3.2.
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- Sxe is for Bending.
- Maxo is allowable bending moment.
- All values are for the one foot of panel width.

29 GAUGE (FV=60 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
SINGLE	NEGATIVE WIND LOAD	107.8	60.6	38.8	26.9	19.8	15.2	12.0
	LIVE LOAD/DEFLECTION	60.5	25.5	13.1	7.6	4.8	3.2	2.2
2-SPAN	NEGATIVE WIND LOAD	107.8	60.6	38.8	26.9	19.8	15.2	12.0
	LIVE LOAD/DEFLECTION	94.3	56.0	31.5	18.2	11.5	7.7	5.4
3-SPAN	NEGATIVE WIND LOAD	134.7	75.8	48.5	33.7	24.7	18.9	15.0
	LIVE LOAD/DEFLECTION	112.3	48.2	24.7	14.3	9.0	6.0	4.2
4-SPAN	NEGATIVE WIND LOAD	125.8	70.7	45.3	31.4	23.1	17.7	14.0
	LIVE LOAD/DEFLECTION	106.6	51.2	26.2	15.2	9.5	6.4	4.5

26 GAUGE (FV=60 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
SINGLE	NEGATIVE WIND LOAD	146.4	82.3	52.7	36.6	26.9	20.6	16.3
	LIVE LOAD/DEFLECTION	80.6	34.0	17.4	10.1	6.3	4.3	3.0
2-SPAN	NEGATIVE WIND LOAD	146.4	82.3	52.7	36.6	26.9	20.6	16.3
	LIVE LOAD/DEFLECTION	126.8	75.6	41.9	24.3	15.3	10.2	7 9
3-SPAN	NEGATIVE WIND LOAD	183.00	102.9	65.9	45.7	33.6	25.7	20.3
	LIVE LOAD/DEFLECTION	150.5	64.2	32.9	19.0	12.0	8.0	5.6
4-SPAN	NEGATIVE WIND LOAD	170.8	96.1	61.5	42.7	31.4	24.0	19.0
	LIVE LOAD/DEFLECTION	143.1	68.1	34.9	20.2	12.7	8.5	6.0
24 GAUGE (FY=60 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
SINGLE	NEGATIVE WIND LOAD	157.7	88.7	56.8	39.4	29.0	22.2	17.5
	LIVE LOAD/DEFLECTION	102.9	43.4	22.2	12.9	8.1	5.4	3.8
2-SPAN	NEGATIVE WIND LOAD	157.7	88.7	56.8	39.4	29.0	22.2	17.5
	LIVE LOAD/DEFLECTION	135.0	80.8	53.4	31.0	19.5	13.1	9.2
3-SPAN	NEGATIVE WIND LOAD	197.2	110.9	71.0	49.3	36.2	27.7	21.9
	LIVE LOAD/DEFLECTION	159.6	82.0	42.0	24.3	15.3	10.2	7.2
4-SPAN	NEGATIVE WIND LOAD	184.1	103.6	66.3	46.0	33.8	25.9	20.5
	LIVE LOAD/DEFLECTION	151.9	87.0	44.5	25.8	16.2	10.9	7.6

22 GAUGE (FV=60 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
SINGLE	NEGATIVE WIND LOAD	200.7	112.9	72.3	50.2	36.9	28.2	22.3
	LIVE LOAD/DEFLECTION	134.3	56.7	29.0	16.8	10.6	7.1	5.0
2-SPAN	NEGATIVE WIND LOAD	200.7	112.9	72.3	50.2	36.9	28.2	22.3
	LIVE LOAD/DEFLECTION	172.2	103.0	68.0	40.5	25.5	17.1	12.0
3-SPAN	NEGATIVE WIND LOAD	250.9	141.1	90.3	62.7	46.1	35.3	27.9
	LIVE LOAD/DEFLECTION	203.7	107.0	54.8	31.7	20.0	13.4	9.4
4-SPAN	NEGATIVE WIND LOAD	234.3	131.8	84.3	58.6	43.0	32.9	26.0
	LIVE LOAD/DEFLECTION	193.8	113.5	58.1	33.6	21.2	14.2	10.0

- Allowable loads are based on uniform span length and Fy - 50 and 60-ksi..
- LIVE LOAD is limited by bending, shear, combined shear & bending, or web cripping.
- NEGATIVE WIND LOAD docs not contain a 33.333% increase and does not consider fastener pullout or pullover.
- Above loads consider a maximum deflection ratio of L/180.
- The weight of panel has not been deducted from the allowable loads.
- The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
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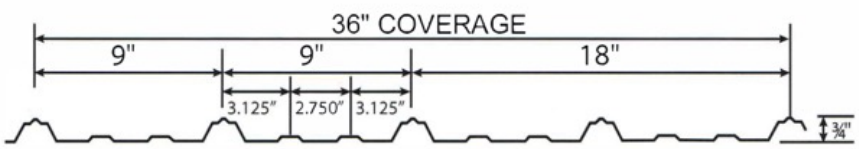
AG PANEL

- ×32″ Wide Panel Coverage Combines Simplicity And Function
- Smooth Symmetrical Ribs For Bold Shadowline Effects
- 7 /8″ Deep Ribs Are Nine Times Stronger Than Old Corrugated
- Can Be Applied Horizontally Or Vertically.
- Available Mitered Corners For Continuity Around Edges
- Utilizes The Latest Technology While Preserving Nostalgia
- Excellent Cladding For Roof, Wall, Liner Or Fascia Accents
- Matching Light Transmitting Panels Are Available
- Available In Several Gauges, Finishes And Colors
- UL 2218 Impact And 1-Hour UL 790 Fire Resistance Tested



FEATURES

- 36″ Wide Panel Coverage Combines Simplicity And Function
- 9″ On Center Rib Design For Strength And Aesthetics
- 3/4″ Deep Ribs Have Top Siphon Groove For Water Resistance
- UL 580 Class 90 Wind Uplift Rated (Construction No. 560)
- Purlin Bearing Rib Provides Superior Sidelap Support
- Utilizes The Latest Technology While Preserving Nostalgia
- Excellent Cladding For Roof, Wall, Liner Or Fascia Accents
- Economical Liner Or Partition Panel In Lighter Gauges
- UL 2218 Class 4 (Best) Impact Resistance Rated
- UL 790 Class A One-Hour Fire Resistance Rated
- Available In Several Gauges, Finishes And Colors

IP-36 SECTION PROPERTIES									
GAUGE	THICKNESS (INCHES)	WEIGHT (PSF)	YIELD STRESS (KSI)	TOP IN COMPRESSION (POSITIVE BENDING)			BOTTOM IN COMPRESSION (NEGATIVE BENDING)		
				IXX IN4/FT	SXX IN3/FT	MA IN.KIPS/FT	IXX IN4/FT	SXX IN3/FT	MA IN.KIPS/FT
26	0.0185	0.866	80.0	0.0133	0.0220	0.7913	0.0093	0.0198	0.7123
29	0.0150	0.704	80.0	0.0110	0.0181	0.6493	0.0073	0.0160	0.5760

Section properties and allowables are calculated in accordance with 1996 AISI Specifications and 1999 AISI Supplement No. 1.1 +/- is for deflection determination. S +/- is for bending determination. Ma is allowable bending moment. All values are for one foot of panel width. These loads are for panel strength. Frames, purlins, fasteners and all supports must be designed to resist all loads imposed on the panel. Allowable outward loads based on stress have been increased by 33.33% for wind uplift. Allowable loads for deflection are based on deflection limitation of span/180 or span/240. For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual "live load" carrying capacity of the panel. Minimum bearing length must be checked. Minimum deliverable bare steel thickness should not be less than 0.95 of design thickness.

SINGLE SPAN CONDITION								
29 GAUGE & 80 KSI					26 GAUGE & 80 KSI			
Span (feet)	LL (S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)	LL (S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)
2	108.2	108.2	90.1	127.7	131.9	131.9	109.3	157.9
2.5	69.3	61.5	46.2	81.7	84.4	74.6	55.9	101.1
3	48.1	35.6	26.7	56.7	58.6	43.2	32.4	70.2
3.5	35.3	22.4	16.8	41.7	43.1	27.2	20.4	51.6
4	27.1	15.0	11.3	31.9	33.0	18.2	13.7	39.5
4.5	21.4	10.6	7.9	25.2	26.1	12.8	9.6	31.2
5	17.3	7.7	5.8	20.4	21.1	9.3	7.0	25.3
6	12.0	4.5	3.3	14.2	14.7	5.4	4.0	17.5

TWO SPAN CONDITION								
29 GAUGE & 80 KSI					26 GAUGE & 80 KSI			
Span (feet)	LL (S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)	LL (S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)
2	96.0	96.0	96.0	121.0	118.7	118.7	118.7	175.4
2.5	61.4	61.4	60.1	77.5	76.0	76.0	72.8	112.3
3	42.7	42.7	34.8	53.8	52.8	52.8	42.2	78.0
3.5	31.3	29.2	21.9	39.5	38.8	35.4	26.5	57.3
4	24.0	19.6	14.7	30.3	29.7	23.7	17.8	43.9
4.5	19.0	13.7	10.3	23.9	23.5	16.7	12.5	34.6
5	15.4	10.0	7.5	19.4	19.0	12.1	9.1	28.1
6	10.7	5.8	4.3	13.4	13.2	7.0	5.3	19.5
THREE OR MORE SPAN CONDITION								
29 GAUGE & 80 KSI					26 GAUGE & 80 KSI			
Span (feet)	LL (S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)	LL(S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)
2	112.1	112.1	112.1	168.1	138.7	138.7	138.7	204.9
2.5	71.8	71.8	71.8	107.6	88.8	88.8	88.8	131.1
3	49.8	49.8	49.8	74.7	61.6	61.6	61.1	91.1
3.5	36.6	36.6	31.7	54.9	45.3	45.3	38.5	66.9
4	28.0	28.0	21.3	42.0	34.7	34.4	25.8	51.2
4.5	22.2	19.9	14.9	33.2	27.4	24.1	18.1	40.5
5	17.9	14.5	10.9	26.9	22.2	17.6	13.2	32.8
6	12.5	8.4	6.3	18.7	15.4	10.2	7.6	22.8

Theoretical allowable loads are based on uniform span lengths. LL (S) is allowable live load based on stress limitation. LL (D) is allowable live load based on deflection limitation of L/180 or L/240. WL is allowable wind load and has been increased by 33.33%.

PRODUCTS & ACCESSORIES

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COLD-FORMED MEMBERS

Cold-formed steel is widely used in buildings of all types and in all industries. Its popularity is attributed to its ease of production and prefabrication, its uniform quality, lightweight design, economy in transportation and handling, and simple erection and/or installation. Alliance cold-formed steel products provide a significant market advantage because of their strength, durability and numerous building applications. At Alliance, we have just the right solution for your project.

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ACCELERATED BUILDING SYSTEMS by Alliance

BUILT FAST. BUILT TO LAST.

ACI's Accelerated Building Systems combine state-of the-art cold-formed steel construction with precision engineering, delivering custom-designed solutions that streamline the build process. This approach guarantees rapid, reliable assembly and structural integrity, catering to both commercial and residential needs with a clear focus on reducing construction times without sacrificing quality or adaptability.

Delivery in as little as 4 weeks

Engineering plans within 5 days

Save money with 25% less concrete in foundations and post install anchor bolts

Plan your new steel building with our online design tool!

ACI ACCELERATED BUILDINGS ARE IDEAL FOR:


Residential


Agricultural


Barns/Shelters


Hangars

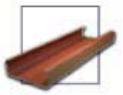

Storage


Commercial

THE ACCELERATED ADVANTAGE:

- Weld-free and simple construction process
- Precise and accurate components, no cutting to length on site
- Save money, 25% less concrete in foundations and post install anch or bolts
- Design your own building with our easy-to-use online builder
- Foundation plans come with the plans at no additional cost
- Includes easy-to-build instruction for the customer
- Accelerated buildings are incredibly customizable
- 2 story with mezzanine floor plans available
- Our buildings are designed for bolt and screw construction and installation
- Save time and money with our one-of-a-kind slab-to-building engineering

WE HAVE AN EXTENSIVE SELECTION OF UNIFORMED, LIGHTWEIGHT AND EASY-TO-INSTALL STEEL MEMBERS FOR ANY INSTALLATION.


10″ x 2 1/2″ Cee


6″ x 2 1/2″ Cee

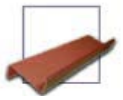

14″ x 3″ Cee


4″ x 2″ Angle

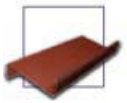

7″ x 3″ Angle


2″ x 2″ Angle


6″ x 2 1/2″ Zee

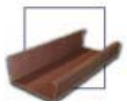

8″ x 2 1/2″ Zee


8″ Eave Strut


10″ x 2 1/2″ Zee

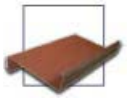

4″ x 2 1/2″ Cee


6″ x 4″ Angle


10″ Eave Strut


4″ x 2 1/2″ Zee

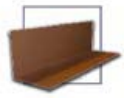

4″ x 2 1/2″ Open Face

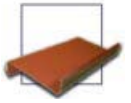

14″ x 3″ Zee


6″ x 2 1/2″ Open Face


10″ x 2 1/2″ Cee

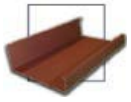

3″ x 3″ Sq Tubing 14 Ga


7″ x 7″ Angle


8 1/2″ x 2 1/2″ Cee


10″ x 2 1/2″ Open Face


14″ x 3″ Cee


12″ Eave Strut


Hat Channel


High Eave Plate


Low Eave Plate


Sag Strut

FRAME TYPES

ALLIANCE STEEL PRODUCES JUST THE RIGHT FRAME FOR JUST THE RIGHT APPLICATION

As a custom steel building manufacturer, we produce a variety of structural frame systems including: flush wall clear span, rigid frame, modular rigid frame, tapered beam and single slope. Your Alliance metal building can be designed to virtually any desired measurement to achieve the optimal design solution for your building. From 20′ to 250′ – gable or single sloped – we have the right frame type for your project.

OUR COMPONENTS AND ACCESSORIES PROVIDE LONG-TERM PERFORMANCE AND VALUE.

We offer quality, durable steel building components, steel building parts and accessories that are highly specialized to provide maximum strength while remaining cost efficient. This combination of quality manufacturing and affordability makes our building accessories and auxiliary parts an excellent value.

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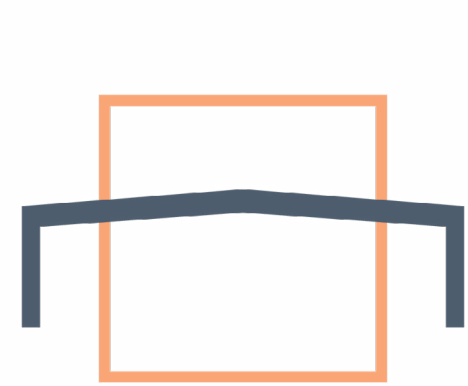
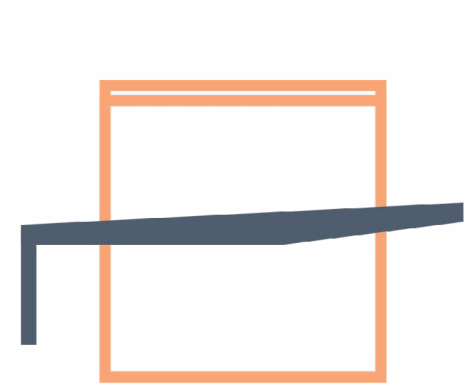


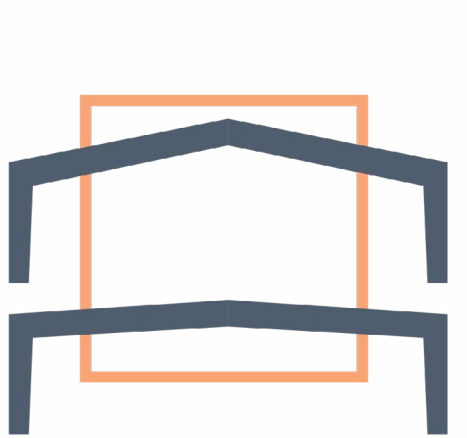
Flush Wall Clear Span

These buildings offer flush, unbroken interior wall spaces with open, column-free floor areas. Their attractiveness and versatility make them ideal for convenience stores and small office buildings.



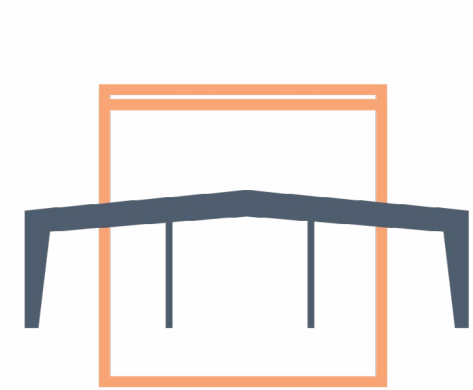
Lean To

These structures economically increase the width of existing or new buildings without the additional need of valley gutter. They are ideal for retail buildings, office complexes, and shopping centers.



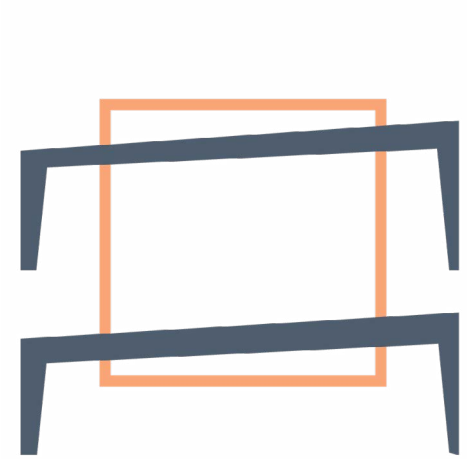
Rigid Frame Clear Span

These structures are used where a large column-free floor area is required. The extensive size and structural integrity of these buildings make them ideal for auditoriums, gymnasiums, show rooms, and aircraft hangars.



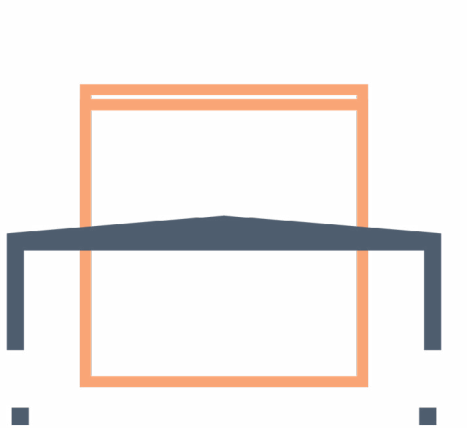
Rigid Frame With Post

These buildings provide maximum width at the most economical cost and are ideal for most manufacturing plants, industrial warehouses, retail buildings, and shopping centers.



Single Slope Clear Span

These buildings are used where one-way roof drainage is desired and column-free floor area is required. They are ideal for individual retail buildings, office complexes, and shopping centers.



Tapered Beam Straight Column

These column-free structures economically encompass shorter-span areas and are ideal for small retail stores, buildings, and offices.

COLOR SELECTION

2000 SERIES
ADVANCED EXTERIOR FINISHES

GROUP 6

6B - POLAR WHITE


GM - GALVALUME

GROUP 7


7B - LIGHT STONE


7C - ASH GRAY


7D - DESERT SAND


7E - SAHARA TAN


7F - BURNISHED SLATE


7G - RUSTIC RED


7H - CHARCOAL GRAY


7I - KOKO BROWN


7J - COLONY GREEN


7K - AZTEC GOLD


CB - COAL BLACK

GROUP 8


8B - HAWAIIAN BLUE


8C - EVERGREEN


8D - FERN GREEN

3000 SERIES
PREMIUM 70% PVDF COATING SYSTEM

GROUP 1

1B - SNOW WHITE

1C - ALMOND


GM - GALVALUME

GROUP 2


2B - MIDNIGHT BRONZE


2C - MEDIUM BRONZE


2D - SLATE GRAY


2E - BROWNSTONE


2F - EVERGLADE

GROUP 3


3B - CLASSIC GREEN

GROUP 4


4B - COPPER METALLIC


4C - HARBOR BLUE


4D - SCARLET RED

Colors shown are as close as production methods allow and may vary slightly from actual metal samples. Sherwin-Williams® and WeatherXL™ are trademarks of SWIMC LLC.

Oil canning is not a cause for rejection

- Alliance Recommends Intermediate Beads On All A-12 Panels.
- Alliance Does Not Recommend Lengths Greater Than 20'-0" On A-12 Panels.
- Alliance Recommends Striated Profile on Alliance-Lok 16 and NFS-16.

Warranty Information

(See back panel for specific paint system data

- All Panels have an AZ50 Galvalume substrate with a 25 year rust through perforation warranty.
- WeatherX colors have a 40 year adhesion and a 30 year chalk and fade warranty.
- Fluropon colors have a 35 year adhesion and a 30 year chalk and fade warranty.
- Acrylume(AZ55) has a 25 year rust through perforation warranty.
- Warranties furnished upon request.

Stick with Alliance

The very best components and accessories for your next project.

Alliance
STEEL BUILDING SYSTEMS

AllianceOKC.com
3333 South Council Rd. | Oklahoma City, OK 73179
1-800-624-1579 | info@allianceokc.com