





WHO WE ARE

ABOUT ACI

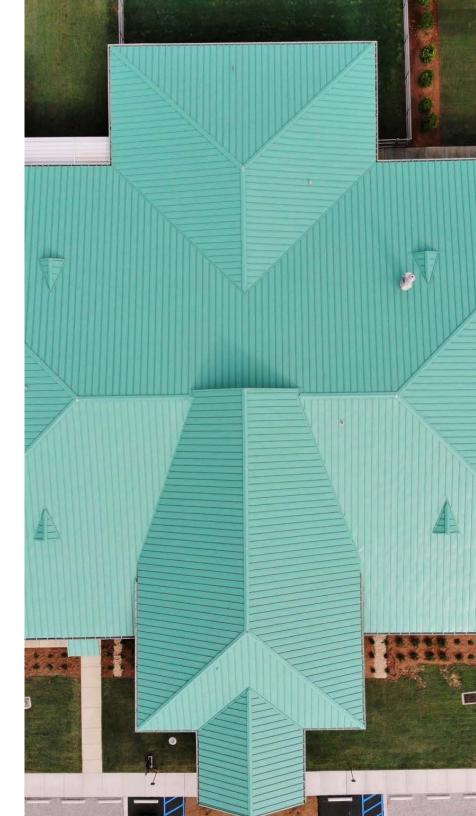
ACI Building Systems, a subsidiary of Associated Steel Group, has been a leading manufacturer of custom-engineered metal buildings, roofing systems, and components for the non-residential construction industry since 1991. Based in Batesville, MS, and with affiliated offices across five states, we are an integrated manufacturer specializing in complex, highly-engineered low-rise metal buildings for various applications, including the architectural, commercial, and industrial markets.

At ACI, we take pride in our ability to meet the demanding requirements of our customers and their construction schedules. Operating from our spacious 270,000 sq. ft. facility in Batesville, MS, comprised of a Building Division and a Roofing Division, we ensure efficient service and nationwide coverage. Our organization comprises is bolstered by a professional network of experienced, reliable, and dedicated employees all working towards a common goal. With a track record of successfully delivering thousands of projects, ACI Building Systems stands for teamwork, experience, and a steadfast commitment to exceeding customer expectations. We have built our reputation on consistently achieving exceptional results.

WHEN YOU CHOOSE ACI FOR YOUR BUILDING NEEDS, YOU'RE CHOOSING A PARTNER DEDICATED TO COLLABORATION AND THE SHARED GOAL OF BRINGING YOUR VISION TO LIFE. LET'S BUILD SOMETHING REMARKABLE TOGETHER.

TABLE OF CONTENTS

WHAT WE BUILD	4
COMPONENTS	11
BUILDING & ROOFING PANELS	12
FW-120 PANEL	13
SNAPLOK	16
PBM PANEL	18
PBR PANEL	21
STRATOSHIELD	24
SUPERIOR RIB	28
ULTRALOK	30
COLD-FORMED MEMBERS	34
FRAME TYPES	37
COLOR SELECTION	39





WHAT WE BUILD





Fossett Paving Company – Collierville, TN

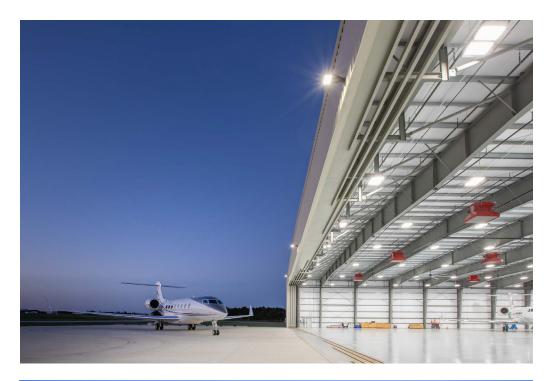
AGRICULTURE

ARCHITECTURALLY-DESIGNED, ECONOMICALLY-MINDED

Located on rural land in an industrial zone with no infrastructure, Fossett Paving Company looked at the site of its new headquarters as more opportunity and less challenge. Comprised of an office building, shop building, fuel station, and an equipment yard, the design provided an elegant, day-lit office for employees while delivering an elevated standard for industrial buildings.

Bringing this special project to life fell in part to ACI Building Systems. The Batesville, MS company delivered with over 13,000 square feet and 60 tons of Stratoshield Roof Panels and Concealed Fastener Panels to complete the awardwinning design.

The use of a singular design language between each structure provides cohesiveness and a pattern for expansion, while a unique entry point with glass and glowing light fixtures entices passersby. Every space has access to natural light, and on the exterior, the openings help create rhythm and give depth to the façade. Painting the exposed interior structure black and using other high-end materials uplift the entire design.





Keys to the World – Lakeland, FL

COMMERCIAL

OFFICE TO MULTI-UNIT

Keys to the World provides corporate aircraft hangar leasing at Lakeland Linder International Airport in Lakeland, FL. ACI designed and supplied the luxury hangar that features a Bi-parting Hangar door, StratoShield Standing Seam Roof Panels and a Special Downspout collector system in an elegant, eclectic design.



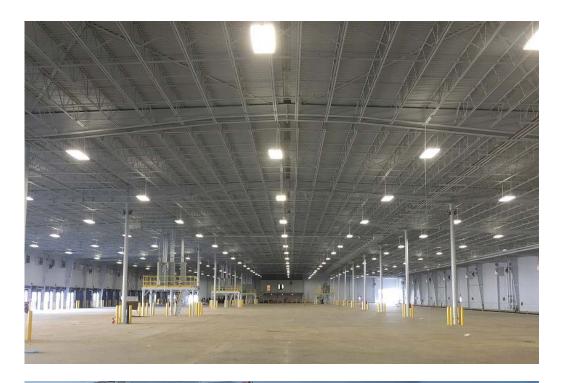


Ford Ice Center – Antioch, TN

COMMUNITY

MUNICIPALITIES TO HOUSES OF WORSHIP

The Ford Ice Center is a public/private collaboration between local government, the Nashville Predators and the people of Nashville. The \$15 million 90,000-square foot facility includes two NHL-sized ice rinks, a yoga/ballet studio, four party/meeting rooms, 2,500-square feet of off-ice training space, concessions and a Perani's Hockey World pro shop.



West Pier, Port of Gulfport – Gulfport, MS

INDUSTRIAL

UNIT STORAGE TO DISTRIBUTION CENTERS

Banana giant Chiquita returned to Gulfport to find 110,000-square feet of new warehouse space and a 20,000-square foot expansion to it's on-dock temperature-controlled facility. Ripening and distribution facilities are in the new West Pier.





ACI Building Systems is a premier Mini-Storage specialist

MINI-STORAGE

THE ACI DIFFERENCE

Our talented team is proficient at designing and building indoor or outdoor mini storage facilities, also known as self-storage, of all shapes, sizes and business objectives. With decades of experience, our dedicated estimating, design, and technical team will ensure your mini-warehouse project's needs are met.

ACI also has specialized building and roofing divisions to support additional construction needs. Our team is vertically integrated to handle all aspects of your project in-house from start to finish. You will become a part of the ACI team and will work hand-in-hand with us throughout the process

AUBURN UNIVERSITY EDUCATIONAL COMPLEX



Auburn University Educational Complex – Gulf Shores, AL

ROOFING

BUILT TO STAND THE TEST OF TIME

The Auburn University Educational Complex is a 24,000-square foot veterinary, aviation, research and administration facility in Gulf Shores. The centerpiece of the complex will be the Auburn Veterinary Specialists—Gulf Shores veterinary referral center which occupies 12,000-square feet. The building also houses the Auburn University Aviation Center, administrative space for Auburn's Office of the Vice President for Research, meeting and office space.



COMPONENTS



BUILDING & ROOFING PANELS

FW-120 PANEL

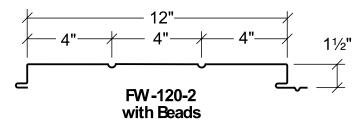
The FW-120 panel is a concealed fastener wall and liner panel that provides a flat appearance. FW-120 is commonly used for architectural, commercial, and industrial markets. The heavy gauge offering provides for large spanning capabilities, particularly in composite wall applications.

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: Smooth (standard); Embossed (optional)
- COATINGS: Signature 200 (standard); Signature 300 (optional)



*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 P	ROPERTIES 12	2" WIDE, 50 H	(SI FW-120 W	ALL PANEL			
Gauge	Gauge Thickness In.	Weight PSF	Allowable Moment of Top in Compression eight PSF Shear Inertia (Positive Bending)				om in Compre egative Bend			
			V _a kips/ft	l _x in⁴/ft	l _{xe} in⁴/ft	S _{xe} in ³ /ft	M ₃ in.kips/ft	l _{xe} in⁴/ft	S _{xe} in ³ /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)
- Ix is full moment of inertia, Ixe +/- & Sxe +/- are effective moment of inertia and section modulus, Ma is allowable bending moment and Va 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" V	VIDE, 50 k	(SI FW-12	0 WALL PA	ANEL						
Allowable Inward Loads (lb/ft													
Guage	Span Co	ondition				Spar	ı (ft)						
duage	Span CC	, iluition	2	2.5	3	3.5	4	4.5	5	6			
	SS	Stress	236.0	151.0	104.9	77.1	59.0	46.6		26.2			
	33	L/180	527.7	270.2	156.4	98.5	66.0	46.3		19.5			
24	DS	Stress	385.8	258.0	183.9	137.3	105.4	83.2		46.8			
24	νs	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			
	13	L/180	995.9	509.9	295.1	185. 8	124.5	87.4		36.9			
	SS	Stress	392.3	251.1	174.4	128.1	98.1	77.5		43.6			
	33	L/180	708.0	362.5	209.8	132.1	88.5	62.2		26.2			
22	DS	Stress	484.2	324.5	231.5	173.0	134.0	106.7		60.8			
22	D3	L/180	1704.0	872.5	504.9	318.0	213.0	149.6	109.1	63.1			
	TC	Stress	546.3	369.8	265.5	199.2	154.7	123.5	100.7	70.6			
	TS	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 Span (ft) Guage **Span Condition** 441.0 282.2 144.0 Stress 196.0 110.3 87.1 70.6 49.0 L/180 1169.1 346.4 218.1 146.1 102.6 74.8 43.3 598.6 226.3 147.0 102.9 76.0 58.4 46.2 37.5 26.1 Stress 24 L/180 2813.7 1440.6 833.7 525.0 351.7 247.0 180.1 104.2 261.1 67.9 43.7 30.4 Stress 170.2 119.5 883 53.8 L/180 2206.1 1129.5 653.7 411.6 275.8 193.7 141.2 81.7

SNAPLOK

The SnapLok standing seam roof panel, 24 gauge panel, is a flexible product to meet every architectural design requirement. The SnapLok panel offers ease of installation that does not require mechanical seaming. The SnapLok panel is designed to be used over solid substrate or open framing. SnapLok panels are available in 16" and 18" widths. Priced to compete, proven to perform.

PANEL

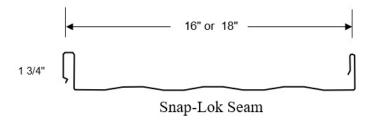
The panel will be fabricated from steel which is coated with Galvalume® and factory applied paint. The Galvalume® coated, painted sheet will provide a long-lasting weathering membrane. Galvalume® has proven weather resistance in excess of 20 years.

The steel panel is designed to resist wind uplift without the complexity of additional substrates as required by many other roofing materials. The ultimate performance of the SnapLok panel is determined by the perimeter seals and panel attachment.

PANEL AND FLASHING MATERIALS

The roof panels will be of 24 ga. or 22 ga. steel, 50,000 psi minimum yield strength (ASTM A792-06a, Grade 50 Class 1), coated with AZ50 (minimum) aluminum/zinc alloy for painted finish or AZ55 aluminum/zinc alloy for unpainted finish.

The flashing will be 24 or 26 gauge steel, 50,000 psi minimum yield strength (ASTM A792 SS Grade 50 Class 1) coated with AZ50 aluminum/zinc alloy.



ATTACHMENT

The SnapLok panel is attached directly to open framing or solid substrate with pancake head, self-drilling fasteners, which secure the clip to the roof structure.

TEST DATA

The SnapLok panel has been tested to meet the requirements of the ASTM E1592 and UL580 Class 90.

WARRANTY

Twenty-year material and weather tightness warranties available.

PRODUCT NOTES

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

UL Construction Numbers: 254, 255, 261, 303, 342, 343, 414, 436, 445, 446, 447, 448, 486, 508A, 543, 544

 $\label{lem:galvalume} \textbf{Galvalume} \textbf{@} \ \text{is an internationally recognized trademark or BIEC International, Inc., and its licensed producers}$

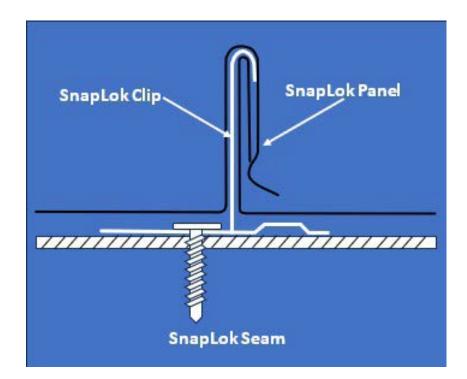
LOAD SPAN TABLES AND SECTION PROPERTIES SNAPLOK SECTION PROPERTIES

GAUGE	GE PANEL THICKNESS WT (PSF)			YILED STRESS (KSI)		
24	0.0)227	1	.22	50	
Panel	Top in Compr	ession	Panel Top in Compression			
Lxe (in4/ft)	Sxe (in3/ft)	Maxo (In.Kip/sq.ft)	Lxe (in4/ft)	Sxe (in3/ft)	Maxo (In.Kip/sq.ft)	
0.0767	0.0507	1.5187	0.0340	0.0350	1.0480	

- All calculations for SnapLok panels are in accordance with the 2007 edition of the North American Specification for Design of Cold-Formed Members.
- Ixe is for deflection determination.
- Sxe is for bending determination.
- Maxo is the allowable bending moment.
- All values are for one foot of panel width.
- SnapLok Span Load Tables All loads in lbs per sq.ft.
- 24 Gauge 18" Panel ASTM A792 Grade 50, Class 1

24 GAUGE 18'	' PANEL ASTM A792 GRAD	DE 50, CLASS 1
Span (ft.)	E1592 Load	Design Load
1.0	110.00	55.00
1.5		52.50
2.0		50.00
2.5		47.50
3.0		45.00
3.5		42.50
4.0	80.00	40.00

- The above loads were derived from uplift tests done in accordance with ASTM E1592-01
- All values are interpolated from tests performed on at 1'-0" and 4'-0"
- Test values are highlighted.
- The test values were taken from test report #72-0190T-05A and 72-0190T-05B by Force Engineering and Testing.
- Design loads are computed using a safety factor of 2.00 per the AISI Specification.



GAUGE	SPAN	SPAN (FT)						
GAUGE	CONDITION	2 ft.	3 ft.	4 ft.	5 ft.			
	Single Live Load	258 psf	114 psf	65 psf	41 psf			
24	Double Live Load	179 psf	79 psf	49 psf	28 psf			
	Triple Live Load	224 psf	99 psf	56 psf	36 psf			

- Allowable loads are based on uniform span lengths.
- Allowable loads are limited by bending, shear or combined shear and bending.
- Above loads consider a maximum deflection ration L/180.
- The weight of the panel has not been deducted from the allowable loads listed.
- The table above is not for use in designing panels to resist wind uplift.
- See wind load tables for allowable wind uplift.
- Oil-canning shall not be cause for rejection.

PBM PANEL

The PBM panel is designed for roof, exterior wall, soffit and liner panels, in architectural, commercial or industrial settings, consists of fastening the panel utilizing through panel fastening and side lap installation. The panel has (6) 3/4" ribs spaced at 6" o.c., with a total coverage of 36". Panels are fabricated from 22, 24, or 26 gauge steel. The Galvalume® coated or painted sheet will provide a long-lasting weathering membrane and has a proven weather resistance in excess of 20 years.

APPLICATION

Roof covering as well as interior and exterior wall covering for new projects or retrofit construction.

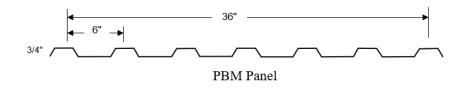
PANEL AND FLASHING MATERIALS

PBM panels are made of 26 gauge steel (80,000 psi) and of 22 and 24 gauge steel, 50,000 psi minimum yield strength (ASTM A792- 06a, Grade 50, Class 1), coated with AZ50 (minimum) aluminum/ zinc alloy for painted finish or AZ55 aluminum/zinc alloy for unpainted finish.

The Flashing and trim will be 24 or 26 gauge steel 50,000 psi yield strength (ASTM A792, SS Grade 50, Class 1), coated with AZ50 (minimum) aluminum/zinc alloy for painted finish zinc or AZ55 aluminum zinc for unpainted finish.

SEALANTS

All sealants are a 100% solids, asbestos-free butyl tape sealant that is highly rubbery, tacky, reinforced compound designed for sealing metal lap joints. Application temperatures of the sealant is -5° F to 120° F and service temperatures from -40° F to 200° F.



MAINTENANCE

Routine maintenance is required to maximize the life expectancy of the panel. Routine inspections of the roof, walls, flashings, gutter and fasteners insure that the investment will maximize performance of all new products.

FASTENERS

PBM panels may attach to secondary framing (purlins or girts) using, #12 x 1 1/4" hex head, self-drilling, steel screws with neoprene washers. Fasteners available for use with up to 8" of blanket insulation.

PBM stitch screws, screws at side laps, are $\frac{1}{4}$ " – 14 x 7/8" self-drilling screws w/neoprene washers.

PRODUCT NOTES

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

WARRANTY

Up to 20-year material and paint finish warranty information available upon request. No Weather-tightness Warranty available.

UL Construction Number: #39

Galvalume® is an internationally recognized trademark or BIEC International, Inc., and its licensed producers.

SECTION PROPERTIES: PBM PANEL

GAUGE	YIELD STRESS (KSI)	WT. (PSF)	STEEL THICKNESS (IN.)	TOTAL THICKNESS (IN.)			N.)
26	50	0.96	0.180	0.0196			
24	50	1.18	0.0227	0.0243			
22	50	1.39	0.0272	0.0288			
Ga.	Panel Top in Compression (Positive Bending)			Panel Bottom in Compression (Negative Bending)			
	lx (in 4/ft)	Sx (in 3/ ft)	Maxo (in.kip s/ft)	lx (in 4/ft)	Sx (in 3/ ft)	Maxo (in.kip s/ ft)	Fb (ksi)
26	0.024	0.043	1.29	0.016	0.038	1.14	30
24	0.032	0.058	1.74	0.022	0.054	1.62	30
22	0.040	0.073	2.19	0.030	0.067	2.01	30

PBM MAXIMUM TOTAL UNIFORM LOADS IN PSF

Gauge	Span	Span Ft.										
Type	Туре	3.0	3.5	4.0	4.5	5.0	6.0	7.0	7.5			
	1	95 / -84	70 / -62	53 / -47	42 / -37	34 / -30	24 / -20	18 / -12	15 / -10			
26	2	83 / -74	62 / -63	47 / -53	37 / -42	30 / -34	21 / -24	15 / -18	13 / -15			
20	3	104 / -84	77 / -72	59 / -63	47 / -53	38 / -43	26 / -30	19 / -22	17 / -19			
	4	97 / -80	72 / -69	55 / -60	44 / -49	35 / -40	25 / -28	18 / -20	16 / -18			

Gauge	Span	Span Ft.									
Gauge	Туре	3.0	3.5	4.0	4.5	5.0	6.0	7.0	7.5		
	1	128 / -119	94 / -88	72 / -67	57 / -53	46 / -43	32 / -27	24 / -17	20 / -14		
	2	118 / -93	87 / -80	67 / -70	53 / -57	43 / -46	30 / -32	22 / -24	19 / -21		
24	3	147 / -106	109 / -91	83 / -79	66 / -71	54 / -57	37 / -40	27 / -29	24 / -26		
	4	137 / -102	101 / -87	78 / -76	62 / -66	50 / -54	35 / -37	26 / -28	22 / -24		

Caugo	Span	Span Ft.										
Gauge	Type	3.0	3.5	4.0	4.5	5.0	6.0	7.0	7.5			
	1	160 / -147	118 / -109	91 / -83	72 / -66	58 / -53	40 / -36	30 / -23	25 / -19			
22	2	147 / -111	108 / -96	83 / -84	66 / -72	53 / -58	37 / -40	27 / -30	24 / -26			
22	3	182 / -127	134 / -109	103 / -95	82 / -84	66 / -72	46 / -50	34 / -37	30 / -32			
	4	170 / -122	126 / -104	97 / -91	77 / -81	62 / -68	43 / -47	32 / -35	28 / -30			

- Section Properties have been calculated in accordance with Supplement 2004 to the North American Specification, 2001
 Edition, for the Design of Cold-Formed Steel Structural Members.
- Steel Panels have a protective coating of either aluminum-zinc alloy or G-90 galvanizing.
- The base steel thickness was used in determining section properties.
- Minimum Yield Strength of 22 and 24 gauge steel 50,000 psi. Minimum Yield Strength of 26 gauge steel 80,000 psi.
- The deflection loads were calculated from a deflection limit of Span/60 for structural roof panels.
- The loads shown do not include allowance for the panel weight.
- Positive Load is applied inward toward the panel supports and is applied to the outer surface of the panel cross-section.

 Negative Load is applied in the opposite direction.

PBR PANEL

The PBR panels, designed for roof, exterior wall, soffit and liner panels, in architectural, commercial or industrial settings, consists of fastening the panel utilizing through panel fastening and side lap installation. The panel has 1 ¼" major ribs spaced at 12" o.c., with a total coverage of 36". Panels are fabricated from 22, 24, or 26 gauge steel. Galvalume® coated or painted sheet will provide a long-lasting weathering membrane and has a proven weather resistance in excess of 20 years.

APPLICATION

Roof covering as well as interior and exterior wall covering for new projects or retrofit construction.

PANEL AND FLASHING MATERIALS

The PBR panel is formed of 50,000 psi minimum yield strength. PBR panels are made of 26 gauge steel (80,000 psi) and of 22 and 24 gauge steel, 50,000 psi minimum yield strength (ASTM A792-06a, Grade 50, Class 1), coated with AZ50 (minimum) aluminum/zinc alloy for painted finish or AZ55 aluminum/zinc alloy for unpainted finish.

The Flashing and trim will be 24 or 26 gauge steel 50,000 psi minimum yield strength (ASTM A792, SS Grade 50, Class 1), coated with AZ50 (minimum) aluminum/zinc alloy for painted finish zinc or AZ55 aluminum zinc for unpainted finish.

FASTENERS

PBR panels may attach to secondary framing (purlins or girts) using self-drilling steel screws, #12 x 1 $\frac{1}{4}$ " hex head w/neo washer. PBR panels attaching to wood decking use #10 x 1 $\frac{1}{2}$ " hex head, wood grip w/ washers. Fasteners available for use with up to 8" of blanket insulation. PBR stitch screws, screws at side laps, are $\frac{1}{4}$ " – 14 x 7/8" self-drilling screws w/neo washers.

SEALANTS

All sealants are a 100% solids, asbestos-free butyl tape sealant that is highly rubbery, tacky, reinforced compound designed for sealing metal lap joints. Application temperatures of the sealant is -5° F to 120° F and service temperatures from -40° F to 200° F.

FINISHES

PBR panels available in ACI 2000 (Advanced Exterior Finishes) and ACI 3000 (Premium 70% PVDF Coating System) colors. All ACI 2000 and ACI 3000 KYNAR finishes are provided by Sherwin-Williams® and come with extended finish warranties. Upon request, Energy Star, LEED, and material safety documentation are available.

MAINTENANCE

Routine maintenance is required to maximize the life expectancy of the panel. Routine inspections of the roof, walls, flashings, gutter and fasteners insure that the investment will maximize performance of all new products.

TEST DATA

The PBR panel has been tested to ASTM E1592.

WARRANTY

Up to 20-year material and paint finish warranty information available upon request. No Weather-tightness Warranty available.

PRODUCT NOTES

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

UL Construction Numbers: 30, 79, 161, 167

Galvalume® is an internationally recognized trademark or BIEC International, Inc., and its licensed producers

GAUGE	YIELD STRESS (KSI)	WT. (PSF)	STEEL THICKNESS (IN.)	TOTAL T	HICKNES	SS (IN.)	
26	80	0.88	0.0180		0.0196		
24	50	1.11	0.0227	0.0243			
22	50	1.32	0.0272	0.0288			
Ga.	Panel To	el Top in Compression (Positive Bending)			ottom in (Negativ ing)		
	lx (in 4/ft)	Sx (in 3/ ft)	Maxo (in.kip s/ft)	lx (in 4/ft)	Sx (in 3/ ft)	Maxo (in.kip s/ ft)	
26	0.0410	0.0409	1.469	0.0343	0.0490	1.761	
24	0.0603	0.0624	1.870	0.0473	0.0632	1.893	
22	0.0766	0.0823	2.460	0.0600	0.0764	2.290	

PBR MAXIMUM TOTAL UNIFORM LOADS IN PSF

Gauge	Span	Span Ft.									
Gauge	Туре	3.0	3.5	4.0	4.5	5.0	6.0	7.0	7.5		
	1	111/-112	81/-70	51/-47	38/-33	28/-24	16/-14	10/-8.8	8.4/-7.2		
26	2	117/-68	88/-58	69/-51	55/-45	45/-38	31/-27	23/-20	20/-17		
	3	141/-77	107/-66	84/-58	67/-51	53/-45	30/-26	10/-16	15/-13		

Caugo	Span	Span Ft.									
Gauge Type	Туре	3.0	3.5	4.0	4.5	5.0	6.0	7.0	7.5		
	1	135/-140	99/-97	76/-65	56/-45	41/-33	24/-19	15/-12	12/-9.9		
24	2	134/-68	99/-58	76/-51	61/-45	49/-41	34/-33	25/-24	22/-21		
	3	164/-77	122/-66	95/-58	75/-51	61/-46	43/-36	28/-22	23/-18		

Caugo	Span	Span Ft.									
Gauge Typ	Туре	3.0	3.5	4.0	4.5	5.0	6.0	7.0	7.5		
	1	172/-161	126/-116	97/-77	70/-54	51/-39	29/-22	18/-14	15/-11		
22	2	156/-68	116/-58	89/-51	70/-45	57/-41	40/-34	29/-29	25/-27		
	3	193/-77	143/-66	110/-58	88/-51	71/-46	50/-38	35/-27	28/-22		

- Section Properties have been calculated in accordance with Supplement 2004 to the North American Specification, 2001 Edition, for the Design of Cold-Formed Steel Structural Members.
- Steel Panels have a protective coating of either aluminum-zinc alloy or G-90 galvanizing.
- The base steel thickness was used in determining section properties.
- Minimum Yield Strength of 22 and 24 gauge steel 50,000 psi. Minimum Yield Strength of 26 gauge steel 80,000 psi.
- The deflection loads were calculated from a deflection limit of Span/180 for structural roof panels.
- The loads shown do not include allowance for the panel weight.
- Positive Load is applied inward toward the panel supports and is applied to the outer surface of the panel cross-section.

 Negative Load is applied in the opposite direction.

STRATOSHIELD

The StratoShield Roof System has been designed for use in architectural or functional applications where both appearance and weather resistance of the roof are primary concerns. Many standing seam roof systems have similar appearance but have major differences in their performance. The StratoShield Roof System has many advantages over most other roof systems and, when properly installed, will offer excellent weather resistance and be practically maintenance free. The StratoShield Roof System is adaptable for use on new construction and as a replacement roof for existing buildings where weather resistance is the most important design consideration.

PANEL

The panel will be fabricated from steel which is coated with Galvalume, and optional factory applied paint. Galvalume coated steel sheet will provide a long-lasting weathering membrane. Galvalume coating has a proven weather resistance in excess of 20 years. The steel sheet is impervious to moisture and will resist falling objects and roof traffic better than other known roof membranes commonly used. The steel panel profiles are designed to resist live load and wind uplift without the complexity and cost of additional substrate as required on most other roofing systems. The ultimate performance of a Galvalume coated steel panel is determined by effectiveness of the design of the steel panel, perimeter seals, and panel attachment methods.

PANEL AND FLASHING MATERIALS

The roof panels will be of 24 ga. or 22 ga. steel, 50,000 psi minimum yield strength (ASTM A792- 06a, Grade 50, Class 1), coated with AZ50 (minimum) aluminum/ zinc alloy for painted finish or AZ55 aluminum/zinc alloy for unpainted finish.

The flashing and trim will be a 24 or 26 ga. steel 50,000 psi minimum yield strength (ASTM A792, SS Grade 50,Class I), coated with AZ50 (minimum) aluminum/zinc alloy for painted finish zinc or AZ55 aluminum zinc for unpainted finish.

PANEL CLIPS

Panel clips fasten the roof panels to the structure. The clips are designed to allow the panel to float over the secondary structurals. Floating clips will have a tab and a base with a sliding interlock allowing the roof 1-1/2" of expansion and 1-1/2" of contraction movement. The floating clip tab will move in the sliding interlock of the galvanized steel clip base. The clip base will be protected from corrosion by galvanized coating that has similar weather resistance to that of the panel coating. Panel clips will be attached to 16 gauge minimum, cold-formed, secondary structurals with two 1/4"- 14 x 11/4" self-drilling screws. Fasteners required for other types of secondary structurals will be determined by building applications or the substrate used on the building.

SEAM

The StratoShield panels have a sidelap that can be formed into two types of seams:

- TripleLokTM-The TripleLok seam is formed continuously by folding the adjacent panels sides over each other to interlock the two panels so they form a watertight seal that will resist separation even if the panels are severely deformed. The TripleLok seam is partially formed in the factory and completed in the field with a mechanical seamer. The TripleLok seam will resist greater uplift forces than any known seam.
- QuadLokTM-The "QuadLok" seam, commonly referred to as the "Pittsburgh 360" is used in high wind load areas and can reduce the need for additional subframing due to increased uplift forces at eaves and rakes.

SEALANTS

The seam sealant will be a non-drying, non-hardening, non-oxidizing sealant specifically formulated for factory sealing standing seam roof panels. Sealant for the eave, end splice, ridge flashing, and rake trim will be non-drying, non-hardening tape sealant specifically formulated for

field application at temperatures of 20° F to 120° F. Service temperature of both sealants will be -60° F to 180° F.

CLOSURES

The end dam to be used at the ridge and high side of a single slope roof is a 22 ga. die-formed steel closure with factory punched holes. The end dam seals the outside of the panel at the ridge or high edge of a single slope roof panel to the ridge or high edge of roof flashing. The seal is developed using gasket techniques similar to those used at the endlap. The tape sealant is sandwiched between the roof panel, which is fully supported by a rigid heavy gauge back-up channel and the flange of the end dam. The fasteners placed in the factory-punched holes clamp the back-up channel and end dam together. The clamping force uniformly compresses the sealant between the panel and the end dam causing the sealant to be extruded with over one ton of force. The extruded sealant provides a seal that will resist wind-blown water.

FASTENERS

The StratoShield Roof System does not have exposed through-fasteners that penetrate the roof membrane over the building envelope except at panel endlaps on roof runs that are longer than the length a panel can be shipped. Endlap fasteners: Only four (4) endlap fasteners will be required to seal the panel endlaps. Endlap fasteners will be oversized #17 fasteners to minimize potential for fastener strip out. All exposed fasteners are self-drilling and will not require special tools other than industry standard screw guns. Fasteners will have metal backed neoprene sealing washers with aluminum/zinc caps.

TESTING DATA

The StratoShield panel outperforms all known existing single skin trapezoidal roof systems in three of the leading tests for wind uplift resistance. These tests are UL 580 Class 90 Factory Mutual 4471; ASTM E1592. The StratoShield panel has also been tested in accordance with ASTME1680, Rate of Air Leakage Through Exterior Metal Roof Panel Systems; and ASTM E1645, Water Penetration of Metal Roof Panel Systems.

PRODUCT NOTES

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

WARRANTY

Twenty year material and weather tightness warranties are available.

UL Construction Numbers: 552, 552A, 552B

Galvalume® is an internationally recognized trademark or BIEC International, Inc., and its licensed producers.

LOAD SPAN TABLES AND SECTION PROPERTIES STRATOSHIELD PANEL PROFILE

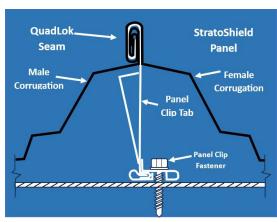
	SECTION PROPERTIES: 24" WIDE, 50 KSI STRATOSHIELD PANEL								
GAUGE	YIELD STRESS (KSI)	WT. (PSF)	STEEL THICKNESS (IN.)	TOTAL THICKNESS (IN.)					
24	0.0227	1.18	50		1.5	49			
22	0.0272	1.41	50		1.850				
Ga.	Panel Top	o in Com Bend	pression (Positive			n Compression			
		Dell	ung)	(I	vegative	Bending)			
	lx (in 4/ft)	Sx (in 3/ ft)	Maxo (in.kip)	lx (in 4/ft)	Sx (in 3/ ft)	Maxo (in.kip s/ft)			
24	Ix (in 4/ft) 0.786	Sx (in 3/			Sx (in 3/				

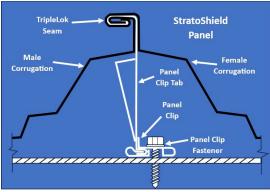
A. 24 GAUGE MATERIAL (FY = 50 KSI) WITH MPS 602 OR MPS 603 CLIP

GAUGE	CDAN C	SPAN CONDITION		SPAN (FT)							
GAUGE	SPAIN C	ONDITION	2.0	2.5	3.0	3.5	4.0	4.5	5.0		
	SS	Stress	516.3	413.1	344.2	265.8	203.5	160.8	130.2		
	33	L/180	2862.6	1465.6	848.3	534.1	357.8	251.3	183.2		
24	DS	Stress	327.9	209.8	145.7	107.1	82.0	64.8	52.5		
24	νS	L/180	6895.6	3530.5	2043.1	1286.6	861.9	605.4	441.3		
	TS	Stress	409.3	262.3	182.2	133.8	102.5	81.0	65.6		
	13	L/180	5404.6	2767.2	1601.4	1008.4	675.6	474.5	345.9		

B. 22 GAUGE MATERIAL (FY = 50 KSI)

GAUGE	EALIGE SPAN CONDITION		SPAN (FT)								
GAUGE	SPAIN C	SPAN CONDITION		2.5	3.0	3.5	4.0	4.5	5.0		
	cc	Stress	616.7	493.3	411.1	320.3	245.3	193.8	157.0		
	SS	L/180	3449.9	1765.9	1021.9	643.5	431.1	302.8	220.7		
22	DC	Stress	419.3	268.4	186.4	136.9	104.8	82.8	67.1		
22	DS	L/180	8308.0	4253.7	2461.6	1550.2	1038.5	729.4	531.7		
	TC	Stress	524.2	335.5	233.0	171.2	131.0	103.5	83.9		
	TS	L/180	6511.7	3334.0	1929.4	1215.0	814.0	571.7	416.7		



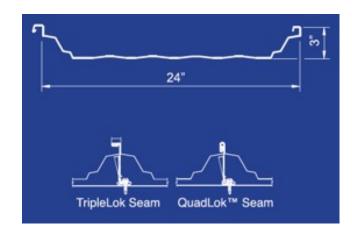


- Allowable load based on stress is the smallest load due to bending, shear and combined bending and shear.
- Allowable load based on deflection limit cannot exceed allowable load based on stress.
- Allowable loads for deflection are based on deflection limitation of span/180.
- For roof panels, self 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.
- SS = Simple span, DS = Double Span and TS = Three or more spans
- StratoShield Allowable Wind Uplift Loads All loads in lbs per sq.ft.

	TRIPLELO	OK SEAM	
Span	1592 Test Ultimate Load	1592 Design Load	COE Design Load
2.0	180.0	90.0	109.1
2.5		81.0	98.1
3.0		72.0	87.2
3.5		63.0	76.3
4.0		54.0	65.4
4.5		45.0	54.5
5.0	72.0	36.0	43.6

	QUADLO	K SEAM	
Span	1592 Test Ultimate Load	1592 Design Load	COE Design Load
2.0	240.0	120.0	145.4
2.5		107.5	130.2
3.0		95.0	115.1
3.5		82.5	100.0
4.0		70.0	84.8
4.5		57.5	69.6
5.0	90.0	45.0	54.5

- The above tabulated loads are generated from certified ASTM E-1592 testing.
- Intermediate design loads are interpolated from ultimate test loads.
- Design loads contain a safety factor calculated per AISI.
- COE design load contains a 1.65 safety factor per COE 07416 Specification.
- These load capacities are for the panel itself. Frames, purlins, clips, fasteners, and all supports must be designed to resist all loads imposed by the panel.
- Allowable wind uplift loads have not been increased by 33% as allowed by some codes when wind load controls.
- This material is subject to change without notice. Contact ACI Metal Roofing Systems, Inc. for most current values.



SUPERIOR RIB

The Superior Rib panel, designed for roof and exterior wall panels in architectural, commercial, residential, or industrial settings, consists of fastening the panel utilizing through panel fastening and side lap installation. The panel has trapezoidal ribs with a built-in water siphon channel. This means that when severe blowing rains try to penetrate the lap, that they are siphoned down the panel. The panel has 3/4" major ribs spaced at 9" o.c., with a total coverage of 36". Panels are fabricated from 26 or 29 gauge steel. The Galvalume® coated or painted sheet will provide a long-lasting weathering membrane and has a proven weather resistance in excess of 20 years.

APPLICATION

Roof covering as well as interior and exterior wall covering for new projects or retrofit construction.

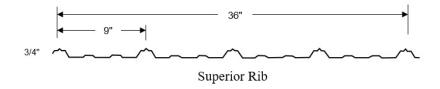
PANEL AND FLASHING MATERIALS

SUPERIOR RIB panels are made of 26 or 29 gauge steel, 80,000 psi minimum yield strength (ASTM A792, Grade 50, Class 1), coated with AZ50 (minimum) aluminum/zinc alloy for painted finish or AZ55 aluminum/zinc alloy for unpainted finish.

The Flashing and trim will be 24 or 26 gauge steel 50,000 psi minimum yield strength (ASTM A792, SS Grade 50, Class 1), coated with AZ50 (minimum) aluminum/zinc alloy for painted finish zinc or AZ55 aluminum zinc for unpainted finish.

SEALANTS

All sealants are a 100% solids, asbestos-free butyl tape sealant that is highly rubbery, tacky, reinforced compound designed for sealing metal lap joints. Application temperatures of the sealant is -5° F to 120° F and service temperatures from -40° F to 200° F.



MAINTENANCE

Routine maintenance is required to maximize the life expectancy of the panel. Routine inspections of the roof, walls, flashings, gutter and fasteners insure that the investment will maximize performance of all new products.

FASTENERS

SUPERIOR RIB panels may attach to secondary framing (purlins or girts) using self-drilling steel screws, #12 x 1 $\frac{1}{4}$ " hex head w/neoprene washer. Fasteners available for use with up to 8" of blanket insulation. SUPERIOR RIB stitch screws, screws at side laps, are $\frac{1}{4}$ " – 14 x 7/8" self-drilling screws w/neoprene washers.

PRODUCT NOTES

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

WARRANTY

Up to 20-year material and paint finish warranty information available upon request. No weather-tightness warranty available.

Galvalume® is an internationally recognized trademark or BIEC International, Inc., and its licensed producers.

SECTION PROPERTIES SUPERIOR RIB PANEL PROFILE

SECTION PROPERTIES: SUPERIOR RIB PANEL

GAUGE	YIELD STRESS (KSI)	WT. (PSF)	STEEL THICKNESS (IN.)	TOTAL THICKNESS (IN.)		
26	80	0.866	0.185		0.8	34
29	80	0.704	0.149	1.16		
Ga.	Panel Top		pression (Positive ding)	Panel Bottom in Compression (Negative Bending)		
	lxx (in 4/) ft2	Sxx (in 3/ft2)	Ma (ksi)	lxx (in 4/ ft2)	Sxx (in 3/ft2)	Max (in.kip s/ft)
26	0.0133	0.0220	0.7913	0.0093	0.0198	0.7123
29	0.0110	0.0181	0.6493	0.0073	0.0160	0.5760

Gauge	Span	Span Ft.								
Gauge	Туре	3.0	3.5	4.0	4.5	5.0	6.0			
	1	43 / -70	27 / -51	18 / -39	12 / -31	9 / -25	5/-17			
26	2	53 / -78	35 / -57	23 / -43	16 / -34	12 / -28	7 / -19			
	3+	61 / -91	45 / -66	34 / -51	24 / -40	17 / -32	10 / -22			

Gauge	Span	Span Ft.							
Gauge	Type	3.0	3.5	4.0	4.5	5.0	6.0		
	1	35 / -56	22 / -41	15 / -31	10 / -25	7 / -20	4 / -14		
26	2	42 / -64	29 / -47	19 / -36	13 / -28	10 / -23	5/-16		
	3+	49 / -74	36 / -54	28 / -42	19 / -33	14 / -26	8 / -18		

- Section Properties have been calculated in accordance with Supplement 2004 to the North American Specification, 2001 Edition, for the Design of Cold-Formed Steel Structural Members.
- Steel Panels have a protective coating of either aluminum-zinc alloy or G-90 galvanizing.
- The base steel thickness was used in determining section properties.
- Minimum Yield Strength of 26 and 29 gauge steel 80,000 psi.
- The deflection loads were calculated from a deflection limit of Span/60 for structural roof panels.
- The loads shown do not include allowance for the panel weight.
- Positive Load is applied inward toward the panel supports and is applied to the outer surface of the panel cross-section. Negative Load is applied in the opposite direction.

ULTRALOK

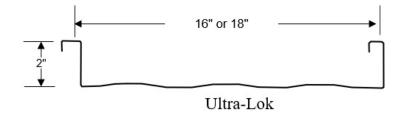
The UltraLok Roof System has been designed for use in architectural or functional applications where both appearance and weather resistance of the roof are primary concerns. Many standing seam roof systems have similar appearance but have major differences in their performance. The UltraLok Roof System has many advantages over most other roof systems and, when properly installed, will offer excellent weather resistance and be practically maintenance free. The UltraLok Roof System is adaptable for use on new construction and as a replacement roof for existing buildings where weather resistance is the most important design consideration.

PANEL

The panel will be fabricated from steel which is coated with Galvalume, and optional factory applied paint. Galvalume coated steel sheet will provide a long-lasting weathering membrane. Galvalume coating has a proven weather resistance in excess of 20 years. The steel sheet is impervious to moisture and will resist falling objects and roof traffic better than other known roof membranes commonly used. The steel panel profiles are designed to resist live load and wind uplift without the complexity and cost of additional substrate as required on most other roofing systems. The ultimate performance of a Galvalume coated steel panel is determined by effectiveness of the design of the steel panel, perimeter seals, and panel attachment methods.

PANEL AND FLASHING MATERIALS

The roof panels will be of 24 ga. or 22 ga. steel, 50,000 psi minimum yield strength (ASTM A792, SS Grade 50,Class 1), coated with AZ50 (minimum) aluminum/zinc alloy for painted finish or AZ55 aluminum/zinc alloy for unpainted finish.



The flashing and trim will be a 24 or 26 ga. steel 50,000 psi minimum yield strength (ASTM A792, SS Grade 50,Class 1), coated with AZ50 (minimum) aluminum/zinc alloy for painted finish zinc or AZ55 aluminum zinc for unpainted finish.

PANEL CLIPS

Panel clips fasten the roof panels to the structure. The clips are designed to allow the panel to float over the secondary structurals. Floating clips will have a tab and a base with a sliding interlock allowing the roof 1-3/4" of expansion and 1-3/4" of contraction movement. The floating clip tab will move in the sliding interlock of the 16 gauge galvanized steel clip base. The clip base will be protected from corrosion by galvanized coating that has similar weather resistance to that of the panel coating. Panel clips will be attached to the secondary structurals with two 1/4"-14 x 11/4" self-drilling screws. Fasteners required for other building applications will be determined by the type of secondary structurals or the substrate used on the building.

SEAM

The UltraLok panels have a sidelap that can be formed into two types of seams:

- TripleLokTM-The TripleLok seam is formed continuously by folding the adjacent panels sides over each other to interlock the two panels so they form a watertight seal that will resist separation even if the panels are severely deformed. The TripleLok seam is partially formed in the factory and completed in the field with a powered seamer. The TripleLok seam will resist greater uplift forces than any known seam.
- QuadLok™-The "QuadLok" seam, commonly referred to as the "Pittsburgh 360" is used in high wind load areas and can reduce the need for additional subframing due to increased uplift forces at eaves and rakes.

SEALANTS

The seam sealant will be a non-drying, non-hardening, non-oxidizing sealant specifically formulated for factory sealing standing seam roof panels. Sealant for the eave, end splice, ridge flashing, and rake trim will be non-drying, non-hardening tape sealant specifically formulated for field application at temperatures of 20° F to 120° F. Service temperature of both sealants will be -60° F to 180° F.

CLOSURES

The end dam to be used at the ridge and high side of a single slope roof is a die-formed steel closure with factory punched holes. The end dam seals the outside of the panel at the ridge or high edge of a single slope roof panel to the ridge or high edge of roof flashing. The seal is developed using gasket techniques similar to those used at the endlap. The tape sealant is sandwiched between the roof panel, which is fully supported by a rigid heavy gauge back- up channel and the flange of the end dam. The fasteners placed in the factory-punched holes clamp the back-up channel and end dam together. The clamping force uniformly compresses the sealant between the panel and the end dam causing the sealant to be extruded with over one ton of force. The extruded sealant provides a seal that will resist wind-blown water.

FASTENERS

The UltraLok Roof System does not have exposed through-fasteners that penetrate the roof membrane over the building envelope except at panel endlaps on roof runs that are longer than the length a panel can be shipped. Endlap fasteners: Only five (5) endlap fasteners will be required to seal the panel endlaps. Endlap fasteners will be oversized #12 - 14 x 11/4" self drilling screw fasteners to minimize potential for fastener strip out.

All exposed fasteners are self-drilling and will not require special tools other than industry standard screw guns. Fasteners will have metal backed neoprene sealing washers with aluminum zinc cap.

TESTING DATA

The UltraLok panel out performs all known existing single skin roof systems in three of the leading tests for wind uplift resistance. These tests are UL 580 Class 90, ASTM E1592 and Factory Mutual 4471. The UltraLok panel has also been tested in accordance with ASTM E1680, Rate of Air Leakage Through Exterior Metal Roof Panel Systems; and ASTM E1646, Water Penetration of Metal Roof Panel Systems.

WARRANTY

Twenty-year material and weather tightness warranties are available.

PRODUCT NOTES

"Oil-canning", a slight waviness inherent in light gauge metal may exist in this panel.

This minor waviness does not affect the finish or structural integrity of the panel and is therefore not a cause for rejection.

Galvalume® is an internationally recognized trademark or BIEC International, Inc., and its licensed producers.

	SECTION PROPERTIES: 16" WIDE, 50 KSI ULTRALOK PANEL											
Gauge	Panel Thickness (in.)	Wt (nst) Yield Stress (ksi) Allowable Shear kir										
24	0.0221	1.254	5	0	0.79							
22	0.0275	1.555	5	0	1.22							
Ga.	Panel Top in	Compression (Posi	tive Bending)	Panel Bottom ir	Compression (Ne	gative Bending)						
	lxe (in 4/ft)	Sxe (in 3/ft)	Maxo (in 3/ft)	lxe (in 4/ft)	Sxe (in 3/ft)	Maxo (in.kip s/ft)						
24	0.1943	0.1113	3.333	0.0900	0.0762	2.282						
22	0.2490	0.1448	4.337	0.1155	0.1002	2.999						

ALLOWABLE GRAVITY LOADS – ALL LOADS IN POUNDS PER SQUARE FOOT										
Span		Span (in feet)								
	Condition		2	2.5	3	3.5	4	4.5	5	6
24 Guage Steel	SS	Stress	555.5	355.5	246.9	181.4	138.9	109.7	88.9	61.7
		L/180	2122.4	1086.6	628.8	396	265.3	186.3	135.8	78.6
	DS	Stress	235.9	219.3	156.9	117.4	91.1	72.6	59.2	41.4
		L/180	5108.1	2615.4	1513.5	953.1	638.5	448.4	326.9	189.2
	TS	Stress	366.7	249.4	179.6	135.1	105	83.9	65.5	48.1
		L/180	4005.1	2050.6	1186.7	747.3	500.6	351.6	256.3	148.3
22 Guage Steel	SS	Stress	722.8	462.6	321.2	236.0	180.7	142.8	115.6	80.3
		L/180	2720.6	1392.9	806.1	507.6	340.1	238.8	174.1	100.8
	DS	Stress	445.0	296.1	210.3	156.7	121.1	96.3	78.4	54.8
		L/180	6547.9	3352.5	1940.1	1221.8	818.5	574.8	419.1	242.5
	TS	Stress	504.7	338.7	241.8	180.8	140.1	111.6	90.9	63.6
		L/180	5133.9	2628.6	152.2	957.9	641.7	450.7	328.6	190.1

- Section properties and allowables are calculated in accordance with North American Specification for the Design of Cold-Formed Steel Structural Members (2001 Edition & 2004 Supplement)
- I +/- is for deflection determination, S +/- is for bending determination & Ma is allowable bending moment.
- Ma is allowable bending moment and Va is allowable shear.
- All values are for one foot of panel width.
- Web Crippling:
 - 24 gauge: Allowable intermediate bearing at 2.5" = 0.357 kips/ft; Allowable end bearing at 2.5" = 0.126 kips/ft
 - 22 gauge: Allowable intermediate bearing at 2.5" = 0.534 kips/ft; Allowable end bearing at 2.5" = 0.189 kips/ft
 - UltraLok Allowable Gravity Loads All loads in lbs per sq.ft.
 - A. 24 Gauge Material (Fy = 50 ksi)

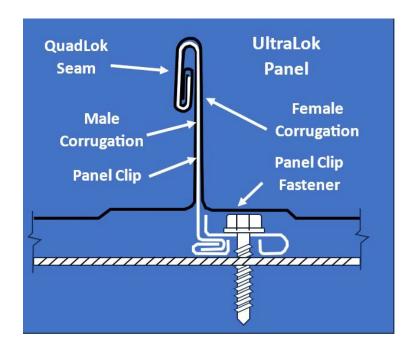
- Allowable load based on stress is the smallest load due to bending, shear and combined bending and shear.
- Allowable load based on deflection limit cannot exceed allowable load based on stress.
- These loads are for panel strength. Frames, purlins, clips, fasteners and all supports must be designed to resist all loads imposed on the panel.
- Allowable loads for deflection are based on deflection limitation of span/180.
- 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.
- TripleLok Seam- UltraLok Allowable Wind Uplift Loads
- 24 Gauge Material (Fy = 50ksi) All loads in pounds per sq.ft.

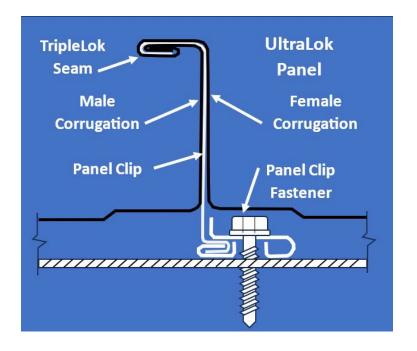
TRIPLELOK SEAM								
Span	1592 Test Ultimate Load	1592 Design Load	COE Design Load					
2.0	232.3	136.4	140.8					
2.5		113.2	116.9					
3.0		94.3	97.3					
3.5		80.9	83.5					
4.0		70.8	73.1					
4.5		62.9	64.9					
5.0	96.5	56.6	58.5					

QuadLok Seam- UltraLok Allowable Wind Uplift Loads 24 Gauge Material (Fy = 50ksi) - All loads in pounds per sq.ft.

QUADLOK SEAM								
Span	1592 Test Ultimate Load	1592 Design Load	COE Design Load					
2.0	332.0	194.7	201.2					
2.5		157.6	163.0					
3.0		131.3	135.8					
3.5		112.6	116.5					
4.0		98.5	101.9					
4.5		87.6	60.9					
5.0	134.7	78.8	81.6					

- The above tabulated loads are generated from certified ASTM E-1592 testing.
- Intermediate design loads are interpolated from ultimate test loads.
- Design loads contain a safety factor calculated per AISI.
- COE design load contains a 1.65 safety factor per COE 07416 Specification.
- These load capacities are for the panel itself. Frames, purlins, clips, fasteners, and all supports must be designed to resist all loads imposed by the panel.
- Allowable wind uplift loads have not been increased by 33% as allowed by some codes when wind load controls.
- This material is subject to change without notice. Contact ACI Metal Roofing Systems, Inc. for most current values.







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. ACI cold-formed steel products provide a significant market advantage because of their strength, durability and numerous building applications. At ACI, we have just the right solution for your project.



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

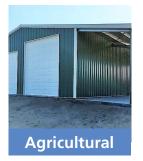
SAVE MONEY WITH 25% LESS CONCRETE IN FOUNDATIONS AND POST INSTALL ANCHOR BOLTS



PLAN YOUR NEW STEEL BUILDING WITH OUR ONLINE DESIGN TOOL!

ACI ACCELERATED BUILDINGS ARE IDEAL FOR:













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.**







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



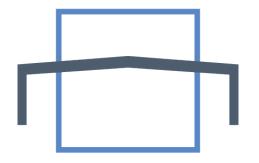
Sag Strut



FRAME TYPES

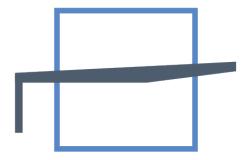
ACI produces just the right frame for just the right application

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 ACI 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.



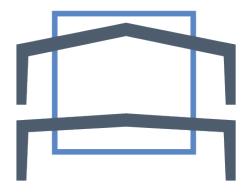
FLUSH WALL CLEAR SPAN

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.



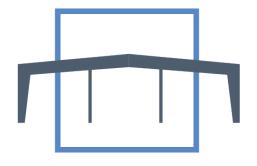
LEAN TO

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.



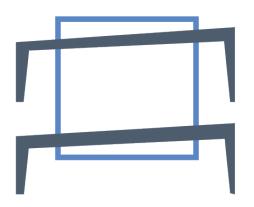
RIGID FRAME CLEAR SPAN

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



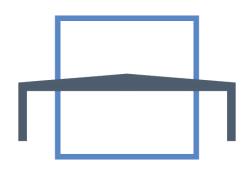
RIGID FRAME WITH POST

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

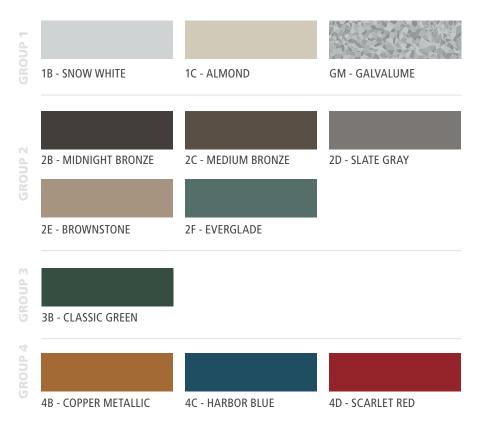
These column-free structures economically encompass shorter-span areas and are ideal for small retail stores, buildings, and offices.

COLOR SELECTION

2000 SERIES ADVANCED EXTERIOR FINISHES



3000 SERIESPREMIUM 70% PVDF COATING SYSTEM



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

Stick with ACI

The very best components and accessories for your next project.



ACIBuildingSystems.com

P.O. Box 1316 10125 Highway 6 West | Batesville, MS 38606 662-563-4574 | sales@acibuildingsystems.com