

Residential Product Guide

HELPFUL INFORMATION ON PANELS, TRIMS, GUTTERS AND ACCESSORIES



**CENTRAL
STATES**

MANUFACTURING, INC.
METAL BUILDING COMPONENTS
WWW.CENTRALSTATESMFG.COM



**The men and women at
Central States Manufacturing,
Inc. would like to welcome you.**

OUR MISSION

Central States Mfg., Inc. is an employee-owned company that is committed to excellence in the manufacturing and the distribution of metal building products. We are dedicated to personal growth and to the well-being of each team member. We are also dedicated to increasing the value of our company.

In appreciation of our customers, we are devoted to exceeding their expectations. It is our promise to maintain total honesty and integrity with everyone our lives may touch.



**CENTRAL
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METAL BUILDING COMPONENTS
WWW.CENTRALSTATESMFG.COM**

Lowell, AR
800-356-2733

Michigan City, IN
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Cedar Hill, TX
800-210-8305

Jasper, AL
866-270-6608

Mount Airy, NC
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Information in the catalog may vary by plant location.
Please call your salesperson to verify product availability.

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Notice: The application and detail drawings in this manual are strictly for illustration purposes and may not be applicable to all building designs or product installations. Projects should conform to local building codes. Central States Manufacturing is not responsible for the performance of the material if it is not installed correctly.

Information contained in this booklet was in effect at the time of publication and is subject to change without notice.

Delivery

Deliveries will be made using a 65' tractor/trailer weighing approximately 80,000 lbs. It is imperative that all delivery locations be accessible by a vehicle of this size. Our drivers have the authority to refuse delivery to any location they see as unsafe or inaccessible. The customer is responsible for any charges incurred if truck is detained for any reason. The customer is responsible for unloading all trucks. Any damage that occurs at this point is the customer's responsibility. There must be either equipment or at least 3 people to unload truck.

NOTE: Oil canning in the flat area of the panels is common to the industry and does not affect the integrity of the panel. Therefore, oil canning is not a reason for rejection.

Care and Handling

Galvalume steel sheets have a good service life when exposed to normal weather conditions; however, to protect the appearance of panels and trims from damage, there are a few simple precautions that can be taken. The steel sheets are subject to stain when water sits upon or becomes trapped between the sheets. If the Galvalume sheets are to be stored for any period of time, they should be stored only in a dry place, preferably under a roof. Stand panels on end and fan them out at the bottom to provide air circulation and moisture run off. If space does not allow this, the panels should be separated, blocked off of the floor at least 12 inches to allow air flow, and stored at an incline to encourage drainage. The panels should then be covered, yet still have good air flow through the sheets to prevent condensation. Do not use a plastic cover, as this may cause the panels to sweat or condensation to occur.

Failure to follow these steps may result in wet storage stains and premature rusting.

The manufacturer's warranty will be void at this time, and the manufacturer will not be responsible.

When unloading panels, extreme caution must be employed. Care needs to be used when unloading panels with a forklift. Panel edges and underside paint may become damaged if the forklift driver does not use caution. Once on the job site, care must be taken in order to protect the painted surface. When unbundling the panels, never drag them across the surface of one another. This may cause scratches across the underneath panels. It is recommended that the panels be "rolled" off the top of the bundle to prevent scratching. Never lift panels by the ends; instead, lift the panels in the center and carry vertically.

Panel edges are very sharp; therefore, safety equipment should be worn by all workers handling the material.

Cutting

A portable field shear is the ideal method for cutting panels. Nibblers or a power shear may also be used. Although we do not recommend it, if you decide to cut with a saw, it is very important that the panels be turned upside down during cutting so that hot shavings do not come in contact with the painted surface. Make sure all adjacent panels are covered so that shavings are not imbedded in these panels. If metal shavings become imbedded in the paint surface, they will quickly rust. To avoid this, panels should be thoroughly wiped of all filings on both sides of the panel. Failure to comply with the recommended cutting procedures releases the manufacturer of any responsibility.

Drilling

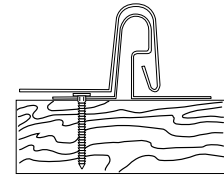
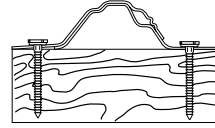
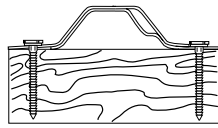
Panels should not be drilled while stacked. This will cause shavings that will become imbedded in the paint surface.

Installation

Follow instructions for UL580 Class 90.

Installation

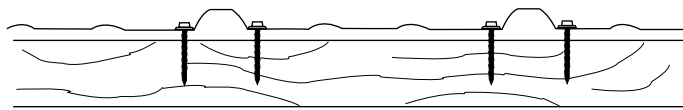
Panels should be installed with the sidelap facing away from the prevailing wind. It is extremely important that the first panel attached be perfectly square, as this will affect the squareness of the entire building. When installing panels, the siphon groove should be on the underlap panel. It is important that the siphon groove not be "clogged" with butyl tape or fastener.



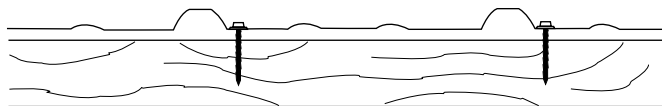
Screws

Screws may be placed either in the rib or the flat for both roof and wall Panel-Loc and Panel-Loc Plus panels. Screws must be placed on the screw flange side of the Horizon-Loc roof panel.

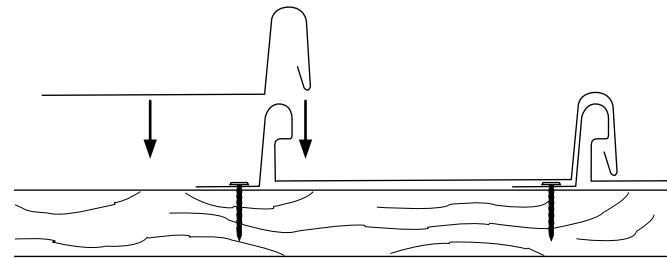
Using SCREWS



For eaves, ridges, and endlaps



For all intermediate purlins



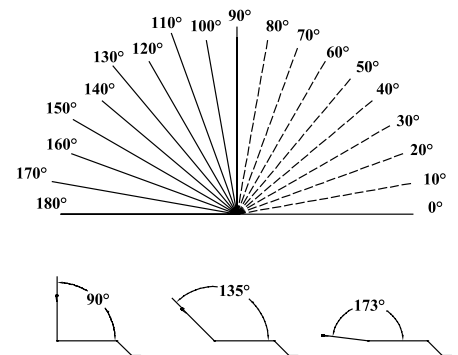
For Horizon-Loc roof panels

Conversion Charts

DECIMAL EQUIVALENTS

1/64	0.0156	17/64	0.2656	33/64	0.5156	49/64	0.7656
1/32	0.0313	9/32	0.2813	17/32	0.5313	25/32	0.7813
3/64	0.0469	19/64	0.2969	35/64	0.5469	51/64	0.7969
1/16	0.0625	5/16	0.3125	9/16	0.5625	13/16	0.8125
5/64	0.0781	21/64	0.3281	37/64	0.5781	53/64	0.8281
3/32	0.0938	11/32	0.3438	19/32	0.5938	27/32	0.8438
7/64	0.1094	23/64	0.3594	39/64	0.6094	55/64	0.8594
1/8	0.1250	3/8	0.3750	5/8	0.6250	7/8	0.8750
9/64	0.1406	25/64	0.3906	41/64	0.6406	57/64	0.8906
5/32	0.1563	13/32	0.4063	21/32	0.6563	29/32	0.9063
11/64	0.1719	27/64	0.4219	43/64	0.6719	59/64	0.9219
3/16	0.1875	7/16	0.4375	11/16	0.6875	15/16	0.9375
13/64	0.2031	29/64	0.4531	45/64	0.7031	61/64	0.9531
7/32	0.2188	15/32	0.4688	23/32	0.7188	31/32	0.9688
15/64	0.2344	31/64	0.4844	47/64	0.7344	63/64	0.9844
1/4	0.2500	1/2	0.5000	3/4	0.7500	1	1.0000

Degrees of bend Transition Trims



Specify Degrees when ordering
Contact Salesperson for assistance
with pitch change trims.

SINGLE SLOPE PITCHES ONLY (FASCIA, EAVE, ENDWALL, GUTTER)

1:12 PITCH	=	94.76 DEGREES
2:12 PITCH	=	99.46 DEGREES
3:12 PITCH	=	104.04 DEGREES
4:12 PITCH	=	108.44 DEGREES
5:12 PITCH	=	112.62 DEGREES
6:12 PITCH	=	116.57 DEGREES
7:12 PITCH	=	120.26 DEGREES
8:12 PITCH	=	123.69 DEGREES
9:12 PITCH	=	126.87 DEGREES
10:12 PITCH	=	129.81 DEGREES
11:12 PITCH	=	132.51 DEGREES
12:12 PITCH	=	135.00 DEGREES

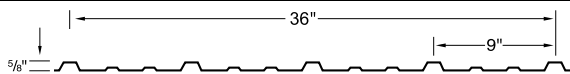
DOUBLE SLOPE PITCHES ONLY (HIP, VALLEY)

1:12 PITCH	=	173.00 DEGREES
2:12 PITCH	=	167.00 DEGREES
3:12 PITCH	=	160.00 DEGREES
4:12 PITCH	=	154.00 DEGREES
5:12 PITCH	=	148.00 DEGREES
6:12 PITCH	=	143.00 DEGREES
7:12 PITCH	=	138.00 DEGREES
8:12 PITCH	=	134.00 DEGREES
9:12 PITCH	=	130.00 DEGREES
10:12 PITCH	=	126.00 DEGREES
11:12 PITCH	=	123.00 DEGREES
12:12 PITCH	=	120.00 DEGREES

(RIDGECAP)

1:12 PITCH	=	170.00 DEGREES
2:12 PITCH	=	161.00 DEGREES
3:12 PITCH	=	152.00 DEGREES
4:12 PITCH	=	143.00 DEGREES
5:12 PITCH	=	135.00 DEGREES
6:12 PITCH	=	127.00 DEGREES
7:12 PITCH	=	120.00 DEGREES
8:12 PITCH	=	113.00 DEGREES
9:12 PITCH	=	106.00 DEGREES
10:12 PITCH	=	100.00 DEGREES
11:12 PITCH	=	95.00 DEGREES
12:12 PITCH	=	90.00 DEGREES

Panel-Loc



Panel-Loc is available in 29ga and 26ga painted Galvalume, bare galvanized, and bare Galvalume. Central States uses the CentralGuard™ paint system on all Prime painted metals. The paint has a 40 year limited warranty, and the Galvalume substrate has a 20 year limited warranty. Bare (non-painted) metals from Central States will have an acrylic coating. This acrylic coating helps protect the metal during manufacturing and installation. This clear organic treatment applied over the Galvalume and galvanized coating is invisible, but provides enhanced performance applicability and retained heat reflectivity. There is no need for oils to be applied during forming. This organic treatment also eliminates fingerprinting and foot marking during installation.

Central States' 29ga and 26ga steel are manufactured to meet ASTM A792 specifications for Galvalume and ASTM A653 for galvanized with a minimum yield of 80,000 PSI. Panel-Loc also has UL2218/Class 4 impact resistance rating and UL790 fire resistance.

The minimum roof slope for the 5/8" Panel-Loc is 3:12. The minimum pitch, along with Panel-Loc's siphon groove, will allow for sufficient drainage of water. For added protection, a sealant tape can be used on the laps of the panel.

Gauge	Thickness (inches)	Weight (psf)	Yield Stress (ksi)	Top in Compression (Positive Bending)			Bottom in Compression (Negative Bending)		
				Ixx in ⁴ /ft	Sxx in ³ /ft	Ma in.kips/ft	Ixx in ⁴ /ft	Sxx in ³ /ft	Ma in.kips/ft
26	0.0185	0.860	80.0	0.0097	0.0198	0.7097	0.0070	0.0189	0.677
29	0.0150	0.698	80.0	0.0073	0.0152	0.5460	0.0053	0.0152	0.5477

Section properties and allowables are calculated in accordance with 1996 AISI Specifications and 1999 AISI Supplement No. 1. I +/- 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

Span (feet)	29 Gauge & 80 ksi					26 Gauge & 80 ksi			
	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	91.0	80.1	60.1	121.4		118.3	105.6	79.2	150.2
2.5	58.2	41.0	30.8	77.7		75.7	54.1	40.6	96.1
3	40.4	23.7	17.8	54.0		52.6	31.3	23.5	66.8
3.5	29.7	15.0	11.2	39.6		38.6	19.7	14.8	49.1
4	22.8	10.0	7.5	30.3		29.6	13.2	9.9	37.6
4.5	18.0	7.0	5.3	24.0		23.4	9.3	7.0	29.7
5	14.6	5.1	3.8	19.4		18.9	6.8	5.1	24.0
6	10.1	3.0	2.2	13.5		13.1	3.9	2.9	16.7

TWO SPAN CONDITION

Span (feet)	29 Gauge & 80 ksi				26 Gauge & 80 ksi			
	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	91.3	91.3	78.2	121.0	112.9	112.9	103.1	157.3
2.5	58.4	53.4	40.1	77.5	72.3	70.4	52.8	100.7
3	40.6	30.9	23.2	53.8	50.2	40.7	30.6	69.9
3.5	29.8	19.5	14.6	39.5	36.9	25.7	19.2	51.4
4	22.8	13.0	9.8	30.3	28.2	17.2	12.9	39.3
4.5	18.0	9.2	6.9	23.9	22.3	12.1	9.1	31.1
5	14.6	6.7	5.0	19.4	18.1	8.8	6.6	25.2
6	10.1	3.9	2.9	13.4	12.5	5.1	3.8	17.5

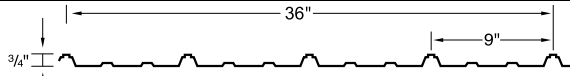
THREE OR MORE SPAN CONDITION

Span (feet)	29 Gauge & 80 ksi				26 Gauge & 80 ksi			
	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	106.6	106.6	106.6	141.1	131.9	131.9	131.9	183.8
2.5	68.2	68.2	58.1	90.5	84.4	84.4	76.5	117.6
3	47.4	44.8	33.6	62.8	58.6	58.6	44.3	81.7
3.5	34.8	28.2	21.2	46.2	43.1	37.2	27.9	60.0
4	26.7	18.9	14.2	35.3	33.0	24.9	18.7	45.9
4.5	21.1	13.3	10.0	27.9	26.1	17.5	13.1	36.3
5	17.1	9.7	7.3	22.6	21.1	12.8	9.6	29.4
6	11.8	5.6	4.2	15.7	14.7	7.4	5.5	20.4

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%.

Revised November 2010

Panel-Loc Plus



Panel-Loc Plus is available in 29ga and 26ga painted Galvalume, bare Galvalume, and 29ga bare galvanized. Central States uses the CentralGuard™ paint system on all Prime painted metals. The paint has a 40 year limited warranty, and the Galvalume substrate has a 20 year limited warranty. Bare (non-painted) metals from Central States will have an acrylic coating. This acrylic coating helps protect the metal during manufacturing and installation. This clear organic treatment applied over the Galvalume and galvanized coating is invisible, but provides enhanced performance applicability and retained heat reflectivity. There is no need for oils to be applied during forming. This organic treatment also eliminates fingerprinting and foot marking during installation. Kynar500®/Hylar 5000® paint system also available.

Central States' 29ga and 26ga steel are manufactured to meet ASTM A792 specifications for Galvalume and ASTM A653 for galvanized with a minimum yield of 80,000 PSI. Panel-Loc Plus also has UL2218/Class 4 impact resistance rating and UL790 fire resistance.

The minimum roof slope for the 3/4" Panel-Loc Plus is 3:12. The minimum pitch, along with Panel-Loc Plus' siphon groove, will allow for sufficient drainage of water. For added protection, a sealant tape can be used on the laps of the panel.

Gauge	Thickness (inches)	Weight (psf)	Yield Stress (ksi)	Top in Compression (Positive Bending)			Bottom in Compression (Negative Bending)		
				Ixx in ⁴ /ft	Sxx in ³ /ft	Ma in.kips/ft	Ixx in ⁴ /ft	Sxx in ³ /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. I +/- 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.

THEORETICAL ALLOWABLE LIVE AND WIND LOADS

SINGLE SPAN CONDITION

Span (feet)	29 Gauge & 80 ksi				26 Gauge & 80 ksi			
	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

Span (feet)	29 Gauge & 80 ksi				26 Gauge & 80 ksi			
	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	143.9	118.7	118.7	118.7	175.4
2.5	61.4	61.4	60.1	92.1	76.0	76.0	72.8	112.3
3	42.7	42.7	34.8	64.0	52.8	52.8	42.2	78.0
3.5	31.3	29.2	21.9	47.0	38.8	35.4	26.5	57.3
4	24.0	19.6	14.7	36.0	29.7	23.7	17.8	43.9
4.5	19.0	13.7	10.3	28.4	23.5	16.7	12.5	34.6
5	15.4	10.0	7.5	23.0	19.0	12.1	9.1	28.1
6	10.7	5.8	4.3	16.0	13.2	7.0	5.3	19.5

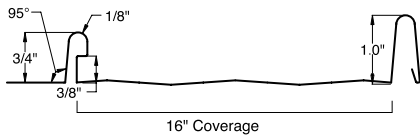
THREE OR MORE SPAN CONDITION

Span (feet)	29 Gauge & 80 ksi				26 Gauge & 80 ksi			
	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%.

Revised November 2010

Horizon -Loc



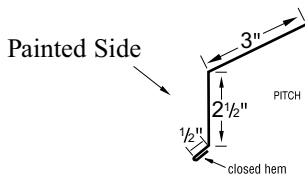
Horizon-Loc is available in 26ga AZ50 painted Galvalume and bare Galvalume. Central States uses either the CentralGuard™ or Kynar 500®/Hylar 5000® paint system on all painted metals. Bare (non-painted) metals from Central States will have an acrylic coating. This acrylic coating helps protect the metal during manufacturing and installation. This clear organic treatment applied over the Galvalume coating is invisible, but provides enhanced performance applicability and retained heat reflectivity. There is no need for oils to be applied during forming. This organic treatment eliminates fingerprinting and foot marking during installation.

Central States' 26ga steel is manufactured to meet ASTM A792 specifications for Galvalume and ASTM A653 for galvanized with a minimum yield of 50,000 PSI. Horizon-Loc also has UL2218/Class 4 Impact Resistance Rating and UL790 Fire Resistance. A minimum roof slope for the 3/4" tall Horizon-Loc is 3:12. The minimum pitch will allow for sufficient drainage of water. No load table available. Install Horizon-Loc over a solid decking with 30 lb. felt paper or equivalent.

NOTE: Oil canning in the flat area of the panels is common to the industry and does not affect the integrity of the panel. Therefore, oil canning is not a reason for rejection.

HORIZON-LOC EXPOSED FASTENER TRIMS 26 ga. only

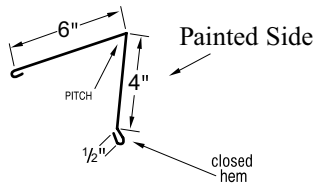
HORIZON-LOC EAVE TRIM



Part Number Length

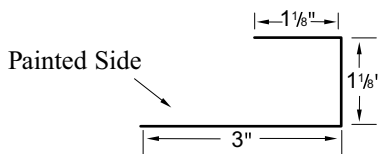
HLRE102(color)	10'2"	
HLRE122(color)	12'2"	
HLRE142(color)	14'2"	
HLRE162(color)	16'2"	
HLRE182(color)	18'2"	Specify pitch.
HLRE204(color)	20'4"	

HORIZON-LOC HIGH SIDE EAVE TRIM



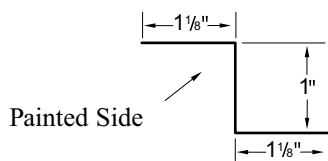
HLHS102(color)	10'2"	
HLHS122(color)	12'2"	
HLHS142(color)	14'2"	
HLHS162(color)	16'2"	
HLHS182(color)	18'2"	Specify pitch.
HLHS204(color)	20'4"	

HORIZON-LOC PANEL CAP



HLPC102(color)	10'2"
HLPC122(color)	12'2"
HLPC142(color)	14'2"
HLPC162(color)	16'2"
HLPC182(color)	18'2"
HLPC204(color)	20'4"

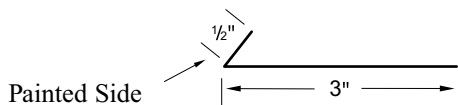
HORIZON-LOC ZEE CLOSURE



HLZC102(color)	10'2"
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Butyl tape needed with this product.

HORIZON-LOC START/FINISH TRIM

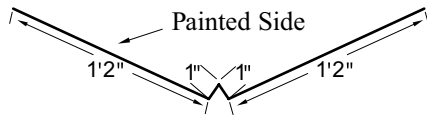


HLSF102(color)	10'2"
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HORIZON-LOC EXPOSED FASTENER TRIMS

26 ga. only

HORIZON-LOC WIDE VALLEY TRIM



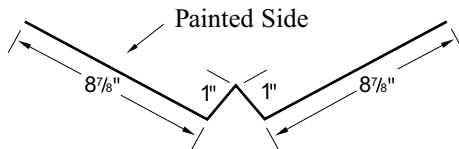
Part Number

Length

HLWVT102(color)	10'2"
HLWVT122(color)	12'2"
HLWVT142(color)	14'2"
HLWVT162(color)	16'2"
HLWVT182(color)	18'2"
HLWVT204(color)	20'4"

Specify pitch.

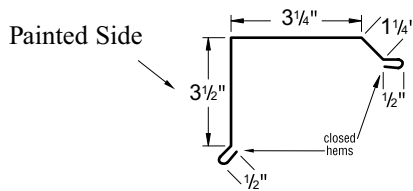
HORIZON-LOC VALLEY



HLVT102(color)	10'2"
HLVT122(color)	12'2"
HLVT142(color)	14'2"
HLVT162(color)	16'2"
HLVT182(color)	18'2"
HLVT204(color)	20'4"

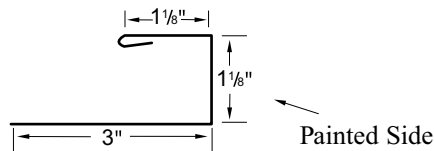
Specify pitch.

HORIZON-LOC RAKE TRIM



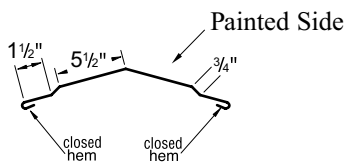
HLRRT102(color)	10'2"
HLRRT122(color)	12'2"
HLRRT142(color)	14'2"
HLRRT162(color)	16'2"
HLRRT182(color)	18'2"
HLRRT204(color)	20'4"

HORIZON-LOC J-TRIM



HLJT102(color)	10'2"
HLJT122(color)	12'2"
HLJT142(color)	14'2"
HLJT162(color)	16'2"
HLJT182(color)	18'2"
HLJT204(color)	20'4"

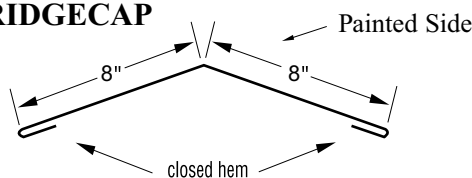
HORIZON-LOC RIDGE CAP



HLRH102(color)	10'2"
HLRH122(color)	12'2"
HLRH142(color)	14'2"
HLRH162(color)	16'2"
HLRH182(color)	18'2"
HLRH204(color)	20'4"

Specify pitch.
Recommend
6/12 or less.

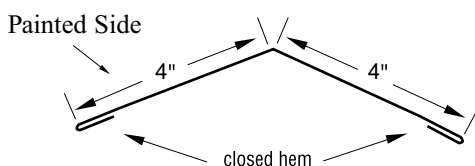
HORIZON-LOC RESIDENTIAL RIDGECAP



RRCP102(color)	10'2"
RRCP122(color)	12'2"
RRCP142(color)	14'2"
RRCP162(color)	16'2"
RRCP182(color)	18'2"
RRCP204(color)	20'4"

Specify pitch.

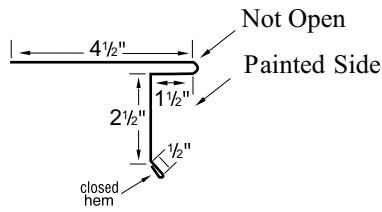
HORIZON-LOC HIP CAP



HIP102(color)	10'2"
HIP122(color)	12'2"
HIP142(color)	14'2"
HIP162(color)	16'2"
HIP182(color)	18'2"
HIP204(color)	20'4"

Specify pitch.

HORIZON-LOC DRIP EDGE



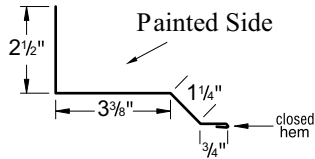
Part Number

Length

HLRDC102(color)	10'2"
HLRDC122(color)	12'2"
HLRDC142(color)	14'2"
HLRDC162(color)	16'2"
HLRDC182(color)	18'2"
HLRDC204(color)	20'4"

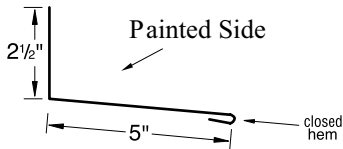
Specify pitch.

HORIZON-LOC SIDEWALL TIE-IN



HLSW102(color)	10'2"
HLSW122(color)	12'2"
HLSW142(color)	14'2"
HLSW162(color)	16'2"
HLSW182(color)	18'2"
HLSW204(color)	20'4"

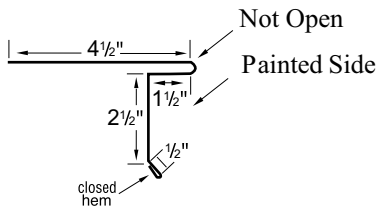
HORIZON-LOC ENDWALL TIE-IN



HLEW102(color)	10'2"
HLEW122(color)	12'2"
HLEW142(color)	14'2"
HLEW162(color)	16'2"
HLEW182(color)	18'2"
HLEW204(color)	20'4"

Specify pitch.

HORIZON-LOC DRIP EDGE

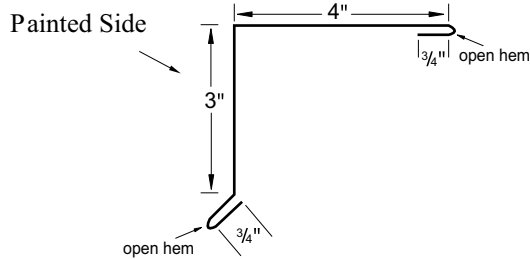


Part Number

Length

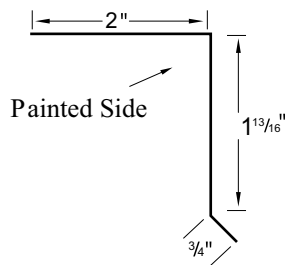
HLRDC102(color)	10'2"	
HLRDC122(color)	12'2"	
HLRDC142(color)	14'2"	Specify pitch.
HLRDC162(color)	16'2"	
HLRDC182(color)	18'2"	
HLRDC204(color)	20'4"	

OPEN HEM RAKE



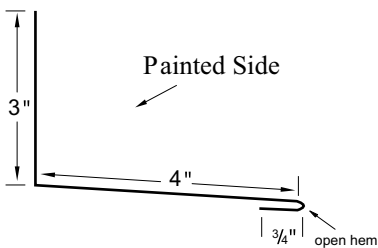
CFRA102(color)	10'2"	
CFRA122(color)	12'2"	
CFRA142(color)	14'2"	
CFRA162(color)	16'2"	Zee & Cleat needed.
CFRA182(color)	18'2"	
CFRA204(color)	20'4"	

HORIZON-LOC CLEAT



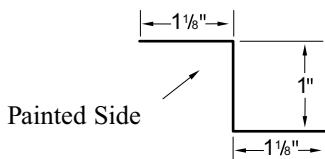
HLCL102(color)	10'2"
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OPEN HEM SIDEWALL/ENDWALL



CFSI102(color)	10'2"	
CFSI122(color)	12'2"	
CFSI142(color)	14'2"	
CFSI162(color)	16'2"	Specify pitch.
CFSI182(color)	18'2"	Zee needed.
CFSI204(color)	20'4"	

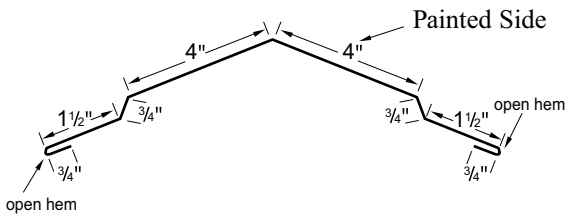
HORIZON-LOC ZEE CLOSURE



HLZC102(color)	10'2"
----------------	-------

Butyl tape needed.

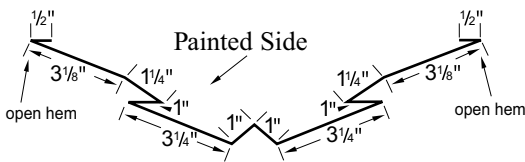
OPEN HEM RIDGE CAP



Part Number	Length
CFRC102(color)	10'2"
CFRC122(color)	12'2"
CFRC142(color)	14'2"
CFRC162(color)	16'2"
CFRC182(color)	18'2"
CFRC204(color)	20'4"

Specify pitch (recommended 6:12 or less.)
Zee needed.

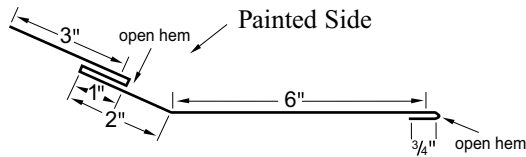
OPEN HEM VALLEY



CFVT102(color)	10'2"
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Specify pitch.

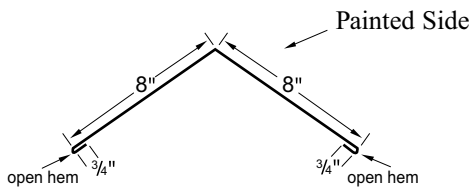
OPEN HEM GAMBREL



CFGA102(color)	10'2"
CFGA122(color)	12'2"
CFGA142(color)	14'2"
CFGA162(color)	16'2"
CFGA182(color)	18'2"
CFGA204(color)	20'4"

Specify pitch.
Zee needed.

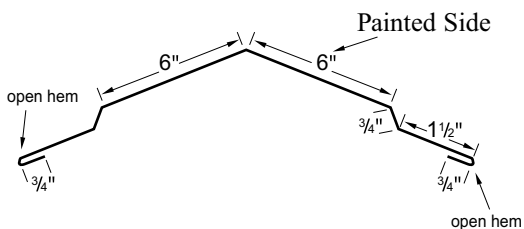
OPEN HEM FLAT RIDGE



CFFRC102(color)	10'2"
CFFRC122(color)	12'2"
CFFRC142(color)	14'2"
CFFRC162(color)	16'2"
CFFRC182(color)	18'2"
CFFRC204(color)	20'4"

Specify pitch.
Zee needed.

OPEN HEM WIDE RIDGE CAP

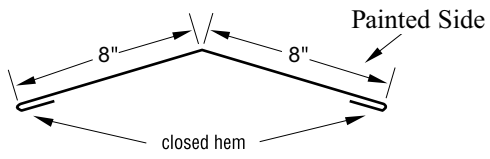
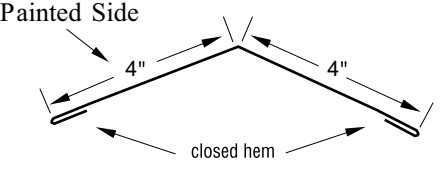
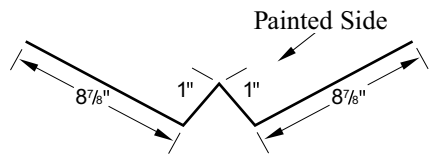
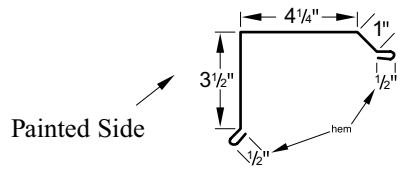
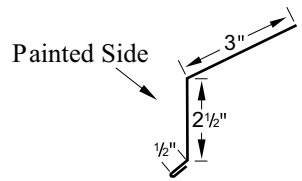
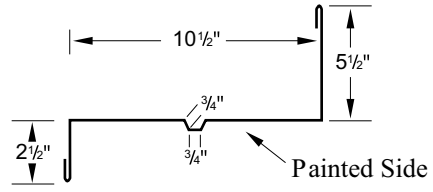
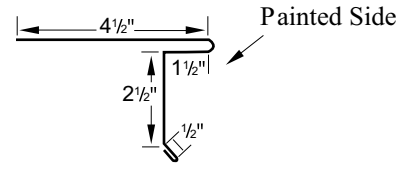


CFWRC102(color)	10'2"
CFWRC122(color)	12'2"
CFWRC142(color)	14'2"
CFWRC162(color)	16'2"
CFWRC182(color)	18'2"
CFWRC204(color)	20'4"

Specify pitch (recommended 7:12 or greater.)
Zee needed.

LOW RIB TRIMS

29 gauge only

	Part Number	Length	
RESIDENTIAL RIDGECAP 	RRCP(color)	10'2"	Specify pitch.
HIP CAP 	HIP(color)	10'2"	Specify pitch.
VALLEY 	VT1(color)	10'2"	Specify pitch.
RESIDENTIAL RAKE TRIM 	RRT(color)	10'2"	
RESIDENTIAL EAVE TRIM 	RET(color)	10'2"	Specify pitch.
GABLE BASE SOFFIT 	GB1(color)	10'2"	
RESIDENTIAL DRIP EDGE 	RDC(color)	10'2"	Specify pitch. (6/12 maximum) Default is 90° as shown.

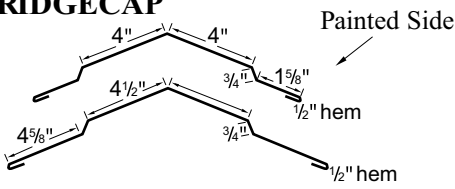
LOW RIB TRIMS

29 gauge only

Part Number

Length

RIDGECAP



RCP(color)

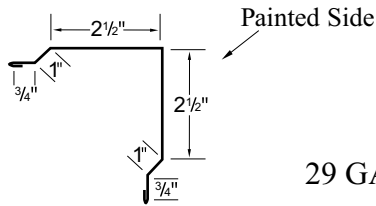
10'6"

Specify pitch

RC2(color)

10'2"

MINI CORNER



MCRN(color)10

10'2"

MCRN(color)12

12'2"

MCRN(color)14

14'2"

MCRN(color)16

16'2"

29 GAUGE LONG TRIM (Available in Michigan City plant only.)

MCRN9(color)12

12'2"

MCRN9(color)14

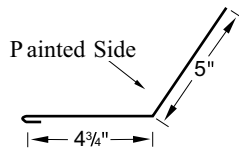
14'2"

MCRN9(color)16

16'2"

GAMBREL TRIM

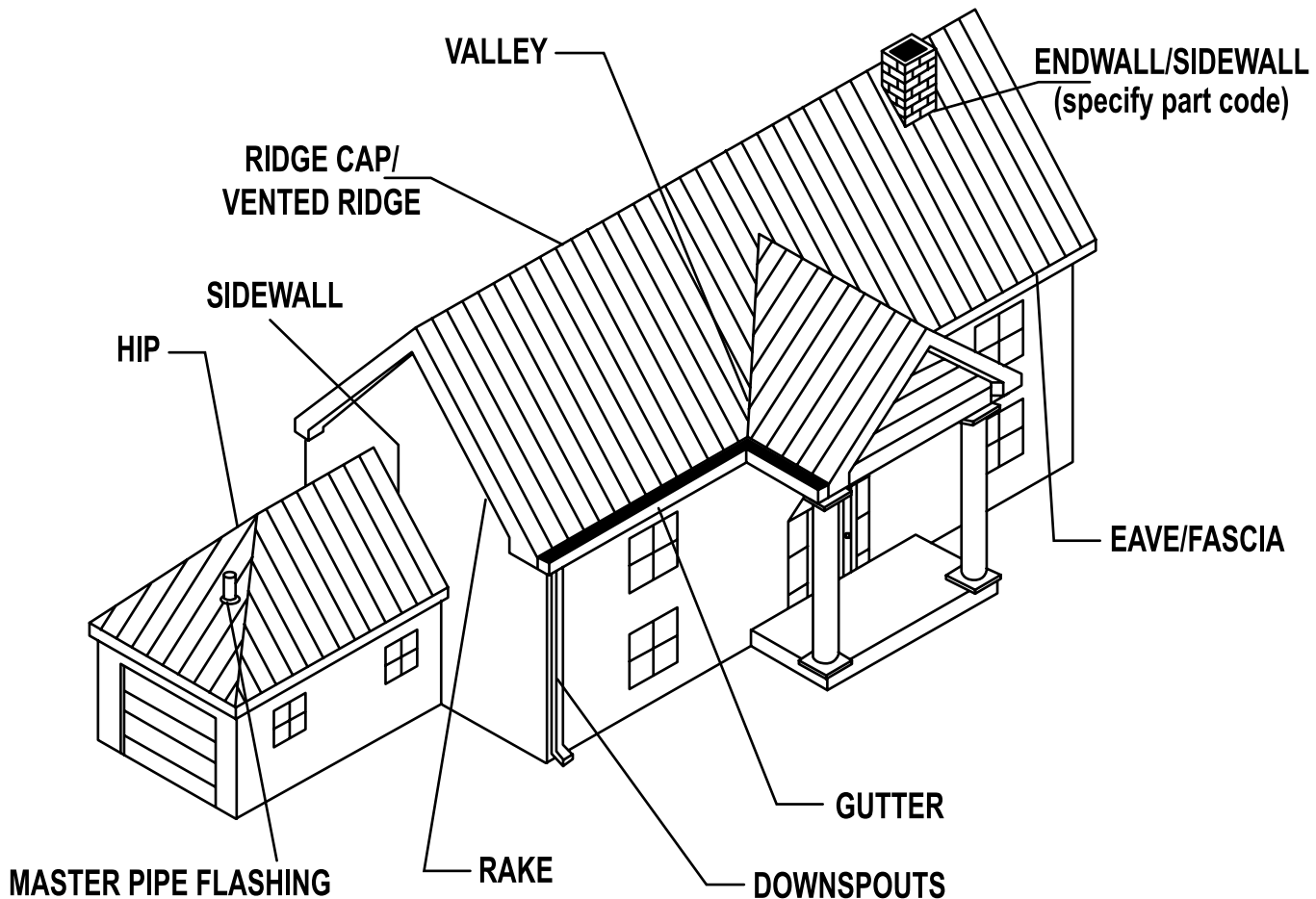
Lower



GTL(color)

10'2"

Specify pitch

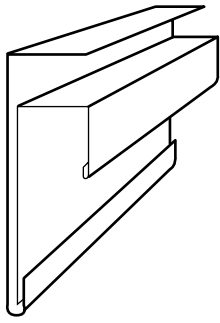


SOFFIT TRIMS

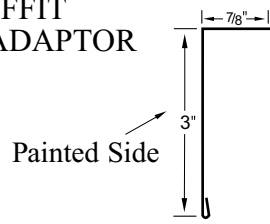
Part Number

Length

F&J ASSEMBLY
(SFA & JT)



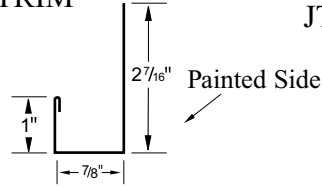
SOFFIT
F ADAPTOR



SFA

10'2"

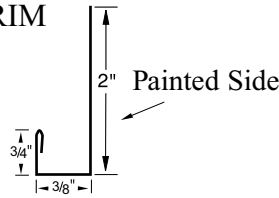
J-TRIM



JT(color)

10'2"

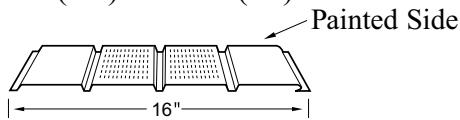
SOFFIT J-TRIM



SJT(color)

10'2"

ALUMINUM SOFFIT
Vented (VS) or Solid (SS)



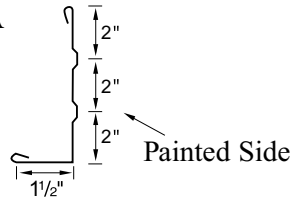
VS(color)12

12'2"

SS(color)12

12'2"

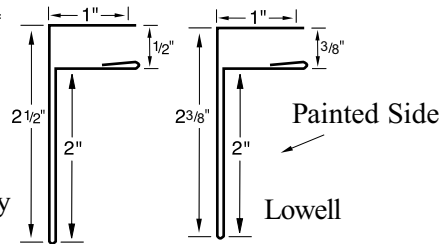
BEADED FASCIA



BFT(color)

10'2"

F CHANNEL *



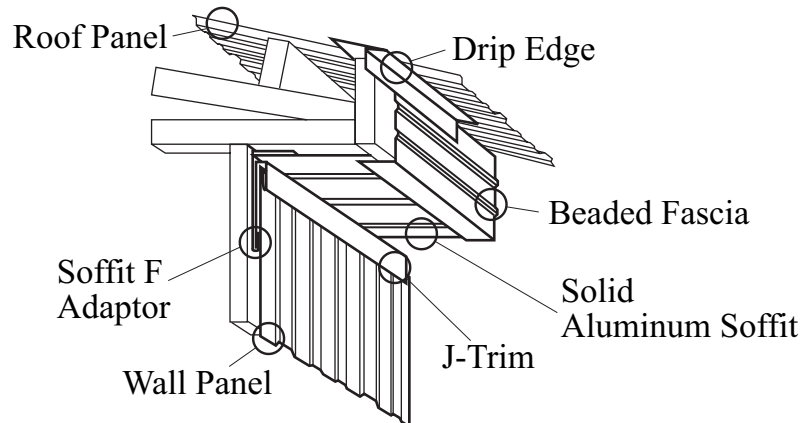
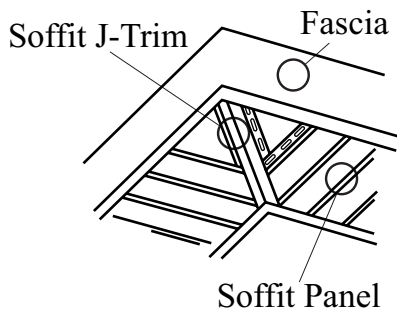
FC(color)

10'2"

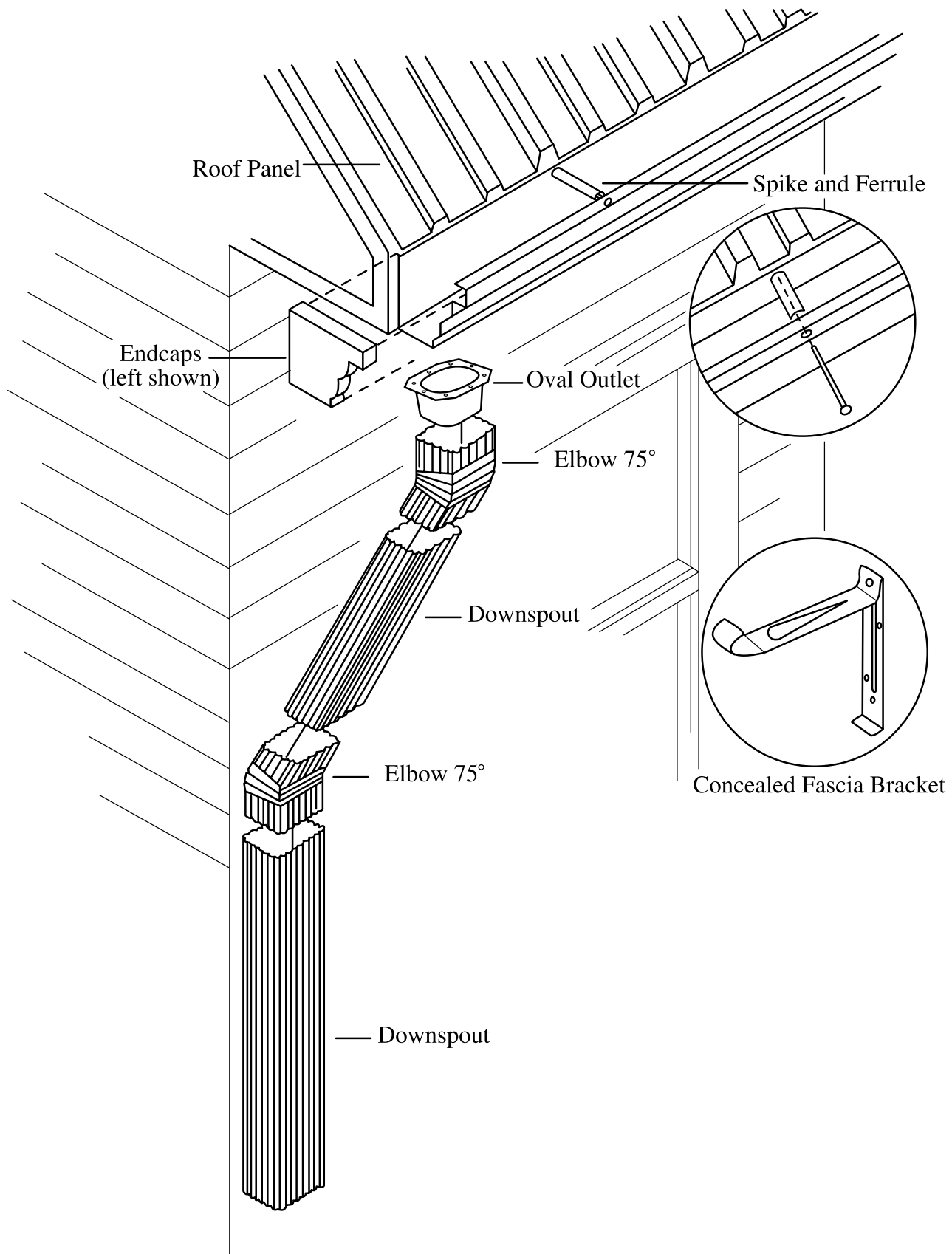
Michigan City

Lowell

*Varies by plant location; please call your salesperson to verify availability.

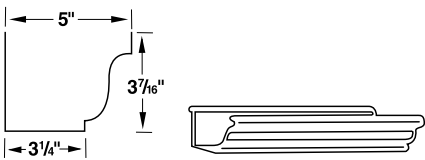
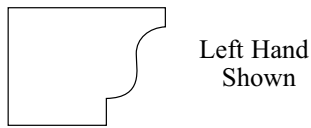

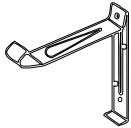
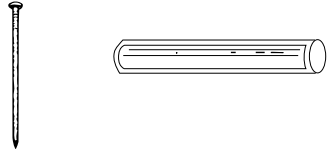



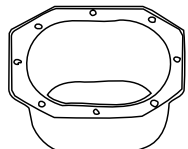


K5 Gutter



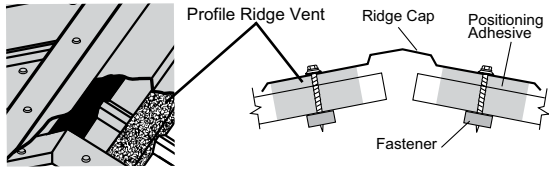
GUTTERS

Gutter products not available in Gold, Bare Metal, Hawaiian, or Polar.

	Part Number	Length
GUTTER 	K5G206(color)	20'6"
GUTTER END CAP 	K5GECR(color) K5GECL(color)	Right hand. Left hand. Specify right or left hand.
CORNER BOXES 	K5GISQCR K5GOSQCR	Inside. Outside. Alamo Only.
CONCEALED FASCIA BRACKET 	K5GCFZ	Qty: 100 per box.
SPIKES & FERRULES 	K5GS8 K5GF5	8" Spike Qty: 50 lbs. per box. 5" Ferrule Qty: 500 per box.
DOWNPOUT 	K5GDS10(color)	10'0" Qty: 15 per box.
DOWNPOUT STRAP 	K5GSCB(color)	Qty: 100 per box.
DOWNPOUT ELBOW 	K5GEA(color)	Qty: 20 per box.
OVAL OUTLET w/ Flange 	K5GOOFZ	Qty: 50 per box.

ACCESSORIES

PROFILE RIDGE VENT



Part Number

SSRVENT

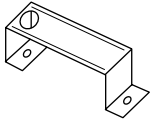
Length

Qty: 100' per package
Horizon-Loc only

PLPVENT

Qty: 100' per package
Panel-Loc Plus only

PROFILE RIDGE VENT CLIP



SSRVENTCLIP

Qty: 25 per box
Use only flat ridgecap
with clips.

CLOSURE VENT



Closure is 1 3/8" tall, may require longer screw for installation.

CLV+ (Panel Loc Plus)

3' Available at Jasper, Cedar Hill
and Michigan City

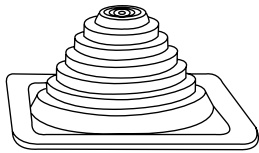
CLV+M (Panel Loc Plus) (Marco)

3' Available at Lowell

Item may vary from sample shown. Contact sales rep for more information

Qty: 50 per box Min. qty = 1 closure vent

MASTER PIPE FLASHING



Part Number

Size

MPF

1/4" to 4"

MPF2

1 1/4" to 3"

MPF4

3" to 6"

MPF6

5" to 9"

MPF7

6" to 11"

Maximum Temperature
250 degrees

MPF8

7" to 13"

4SMPF*

3" to 6"

6SMPF*

5" to 9"

8SMPF*

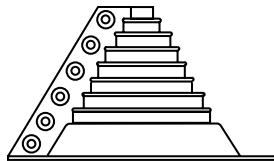
7" to 13"

Maximum Temperature
500 degrees

10SMPF*

13" to 26"

MASTER PIPE FLASHING WITH ZIPPER



MPF1ZIP*

1/2" - 4" with zipper

MPF2ZIP*

4 1/2" - 9" with zipper

*Not available in all locations. Contact sales rep for lead times.

Part Number

Length

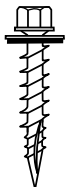
Color

per bag

per box

METAL/WOOD SCREWS #10

1/4" head



1(color)MW

1"

All

250

3000pc

1 1/2(color)MW

1 1/2"

All

250

2500pc

2(color)MW

2"

All

250

2000pc

2 1/2(color)MW

2 1/2"

All Except Gold

250

1500pc

3(color)MW

3"

All Except Gold

250

1000pc

Per bag or per box quantity only.
Minimum quantity 1 bag.

ACCESSORIES

STITCH SCREWS

1/4" head



Part Number	Length	Color	# per bag	# per box
34(color)	3/4"	All	250	3000

Per bag or per box quantity only.
Minimum quantity 1 bag.

METAL/METAL SCREW#12

5/16" head



34(color)MM	3/4"	All	250	2500
114(color)MM	1 1/4"	All	250	2500
112(color)MM	1 1/2"	Polar, Brilliant, Stone, Bare, Hunter	250	2500

Per bag or per box quantity only.
Minimum quantity 1 bag.

LAP SCREWS

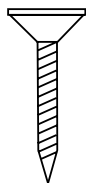
5/16" head



78(color)LAP	7/8"	All	250	
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Per bag or per box quantity only.
Minimum quantity 1 bag.

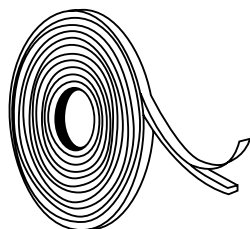
LOW PROFILE PANCAKE HEAD SCREWS



SSR1WOOD	1"		250	5000
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Horizon-Loc only

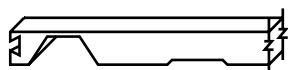
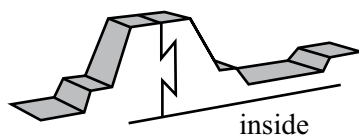
BUTYL TAPE



Part Number	Length	Dimensions
BT	40'	1/4" x 3/16"
BTR	40'	7/8" x 3/16"

BT 20 rolls per box
BTR 10 rolls per box
Min. qty = 1 roll

CLOSURES (INSIDE or OUTSIDE)



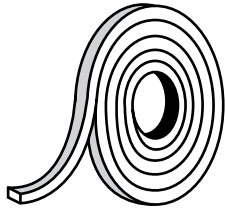
Part Number	Length
CLOUT	Panel Loc outside (no adhesive) 3'
CLOUT+	Panel Loc Plus outside (no adhesive) 3'
CLIN	Panel Loc inside (no adhesive) 3'
CLIN+	Panel Loc Plus inside (no adhesive) 3'
CLOUTWGLUE	Panel Loc outside (with adhesive) 3'
CLOUT+GLUE	Panel Loc Plus outside (with adhesive) 3'
CLINWGLUE	Panel Loc inside (with adhesive) 3'
CLIN+GLUE	Panel Loc Plus inside (with adhesive) 3'

100 per box

Min. qty = 1 closure

ACCESSORIES

UNIVERSAL POLYFOAM



Part Number

POLY

Length

25'

Dimensions

1"x1 1/2"

10 rolls per box.
No glue/adhesive.

GRAYFLEX Joint Seal Tape



Part Number

GRAYFLEX-6

Length

20'

Width

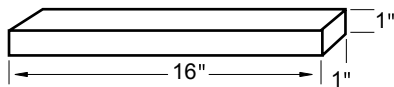
1"

Thickness

1" **

10 rolls per box.
**Expanded size.

16" OUTSIDE CLOSURE WITH GLUE



Part Number

SSRCLOSUGLUEB

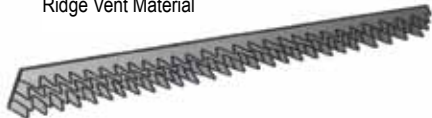
Color

Black foam

Horizon-Loc only

VERSAVENT

Ridge Vent Material



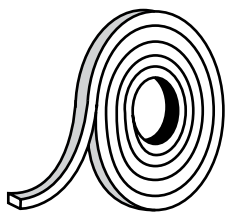
Part Number

VERSA

Length

10'

RETRO-EASE



Part Number

RETROEASE

Size

300 ft. roll

TOUCH UP PAINT



Part Number

4(color)SP

Size

.6 oz bottle
with brush

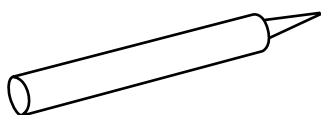
Available in all colors.

4ZZSP

4.5 oz spray paint

Available in backer coat.

GEOCEL-TRIPOLYMER SEALANT



Part Number

GEO(color)

Length

10.6 oz. tube

Color

Clear, gray,
white

Qty: 24 per box.

Min. qty = 1 tube

GALVALUME 20 YEAR WARRANTY

Central States Manufacturing (CSM) warrants that hot-dipped aluminum-zinc alloy coated Galvalume steel sheets sold as Panel-Loc, Panel-Loc Plus, M-Loc, Horizon-Loc, R-Loc, Central-Loc or Central Seam Plus, for use as steel building roofing and siding panels, if erected in the United States, WILL NOT rupture, fail structurally or perforate within a period of twenty (20) years after shipment due to exposure to normal atmospheric corrosion.

This warranty DOES NOT APPLY to sheets exposed at any time to corrosive or aggressive atmospheric conditions, including but not limited to:

- Areas subject to salt water marine atmospheres or to constant spraying of either salt or fresh water.
- Areas subject to fallout or exposure to corrosive chemicals, ash or fumes.
- Areas subject to water run-off from lead or copper flashings or areas in metallic contact with lead or copper.
- Conditions/circumstances where corrosive fumes or condensates are generated or released inside the building.

This warranty DOES NOT APPLY in the event of:

- Mechanical, chemical or other damage sustained during shipment, storage, erection, or after erection.
- Failure to provide free drainage of water, including internal condensation from overlaps and all other surfaces of the sheets or panels.
- Failure to remove debris from overlaps and all other surfaces of the sheets or panels.
- Damage caused to the metallic coating by improper scouring or cleaning procedures.
- Deterioration of the panels caused by contact with green or wet lumber, or storage stain caused by water damage or condensation.
- Presence of damp insulation or other corrosive materials in contact with or close proximity to the panel.
- Deterioration to the panels caused directly or indirectly by panel contact with concrete, asphalt, gravel, dirt, mulch, or any corrosive material.
- Deterioration of the panels caused directly or indirectly by panel contact with fasteners. Selection of suitable long-lasting fasteners to be used with Galvalume roofing and siding panels rests solely with the Buyer.
- A degree of bending less than 2T for sheet gauges up to 0.030 in. and degree of bending less than 4T for sheet gauges 0.031 in. and thicker.
- Slopes of roof or sections of the roof flatter than 1/4:12.

This warranty shall be subject to the stipulations, limitations and conditions hereinafter set forth.

The remedy for any claims on steel roofing and siding panels shall be at the discretion of Central States Manufacturing and shall be limited to refinishing or replacing the defective panels.

CENTRAL STATES MANUFACTURING SHALL NOT BE LIABLE FOR ANY LOSSES, DAMAGES OR EXPENSES WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL, CAUSED BY OR RESULTING FROM THE USE OF DEFECTIVE OR NON-CONFORMING STEEL ROOFING AND SIDING PANELS OR FOR ANY

OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. CENTRAL STATES MANUFACTURING'S TOTAL LIABILITY IS EXPRESSLY LIMITED TO THE PURCHASE PRICE OF THE STEEL ROOFING AND SIDING PANELS.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply in your state. This warranty provides specific legal rights and other rights which vary from state to state that may apply.

Central States Manufacturing's liability for breach of this warranty shall be limited exclusively to the cost of either repairing non-conforming, rupturing, perforating or structurally failing panels, or at CSM's sole option, of furnishing FOB Buyer's plant sufficient sheet product to enable Buyer to fabricate replacement panels for the non-conforming, rupturing, perforating or structurally failing panels. CSM shall not in any event be liable for the cost of labor expended by others on any non-conforming, rupturing, perforating or structurally failing sheet or for any special, indirect, or consequential loss of profits or any other incidental, general, special or compensatory damages to anyone by reason of the fact that such panels shall have been non-conforming, rupturing, perforating, or structurally failing.

Claims under this warranty must be made in writing to Central States Manufacturing at the address set forth below within 30 days after discovery of the defect. CSM shall have an additional 30 days to inspect the steel roofing and siding panels before any further action shall be taken. Adequate identification of material involved in the claim, including date of installation, order number, invoice number and date of shipment must be established by the Buyer.

Buyer shall exercise diligence in inspection of sheets as received from CSM so as to mitigate repair or replacement. CSM extends this warranty solely to the original owner of any structure where the material is installed. This warranty is not transferable and non-assignable. CSM reserves the right to terminate this warranty at any time (except as to orders already accepted) upon the giving of written notice thereof.

The Law of the State of Arkansas shall govern the rights and duties of the parties under this agreement and jurisdiction and venue is fixed in Benton County, Arkansas.

CENTRAL STATES MANUFACTURING MAKES NO GUARANTEES, EITHER EXPRESSED OR IMPLIED BEYOND THE FACE HEREOF, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF FITNESS AND MERCHANTABILITY, AND SHALL HAVE NO OTHER LIABILITY WITH RESPECT THERETO.

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Mount Airy, NC 27030

PRIME 40 YEAR LIMITED WARRANTY

FOR CENTRAL STATES MANUFACTURING (CSM) PANEL-LOC, PANEL-LOC PLUS, R-LOC, HORIZON-LOC, M-LOC, CENTRAL-LOC AND CENTRAL SEAM PLUS STEEL ROOFING AND SIDING PANELS. THIS WARRANTY COVERS PRIME MATERIAL ONLY. THRIFTY MATERIAL IS COVERED BY A SEPARATE WARRANTY.

CSM warrants that the color-coated finish applied to its steel roofing and siding panels will not, within a period of forty years after installation or forty years and one month after the date of shipment (whichever comes first), crack, check, peel or lose adhesion. This does NOT include minute fracturing, which may occur in proper fabrication of the building parts. Failure due to substrate corrosion is excluded.

CSM also warrants that the color-coated finish applied to its steel roofing and siding panels will not, within a period of thirty years after installation or a period of thirty years and one month after the date of shipment (whichever comes first), chalk or lose color according to the following grids. Additionally, chalk ratings are measured in accordance with the standard procedures specified in ASTM-D-4214-98 method D659. Color (fade) ratings are measured in accordance with the standard procedures specified in ASTM-D-2244-02. Color change shall be measured on an exposed painted surface that has been cleaned of surface soils and chalk, and the corresponding values measured on the original or unexposed painted surface. It is understood that fading or color changes may not be uniform if the surfaces are not equally exposed to the sun and elements.

Sidewall		Roof	
Color	Chalk	Color	Chalk
5	8	6	7

(Exception: Gallery Blue - Sidewall: Color: 8/Chalk: 6, Roof: Color: 10/Chalk: 5).

1) **DISCLAIMER OF WARRANTY.** THE EXPRESS WARRANTY STATED HEREIN IS THE EXCLUSIVE WARRANTY APPLICABLE TO CSM PANEL-LOC, PANEL-LOC PLUS, R-LOC, HORIZON-LOC, M-LOC, CENTRAL-LOC AND CENTRAL SEAM PLUS PRIME PAINTED MATERIAL ONLY, ROOFING AND SIDING PANELS. CSM MAKES NO WARRANTIES OR GUARANTEES, EITHER EXPRESSED OR IMPLIED, BEYOND THE FACE HEREOF INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. CSM SHALL HAVE NO OTHER LIABILITY WITH RESPECT THERETO. This warranty will apply to those panels refinished or replaced but only for the period of time left on the original warranty. No employee or representative of CSM is authorized to change this limited warranty in any way or grant any other warranty regarding the product.

2) **LIMITATION OF LIABILITY.** THE EXCLUSIVE REMEDY FOR ANY AND ALL CLAIMS ARISING FROM THIS LIMITED WARRANTY SHALL BE LIMITED TO CSM REFINISHING OR REPLACING DEFECTIVE PANELS OR REFUNDING THE PURCHASE PRICE OF SUCH PANELS AS CSM SHALL ELECT. CSM SHALL NOT BE LIABLE FOR ANY LOSSES, DAMAGES, OR EXPENSES, WHETHER DIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. IF OUR CENTRALGUARD™ SILICONIZED POLYESTER COATINGS FAIL TO COMPLY WITH OUR LIMITED WARRANTY, WE WILL PAY FOR THE LABOR AND THE MATERIALS REASONABLY NECESSARY TO REPAINT, REPAIR OR REPLACE, AT OUR OPTION, THE BUILDING PART SHOWING THE FAILURE. CSM'S TOTAL LIABILITY IS EXPRESSLY LIMITED TO THE PURCHASE PRICE OF THE CSM STEEL ROOFING AND SIDING PANELS.

3) Claims under this warranty must be made in writing to CSM at the address set forth below within 30 days after the discovery of the defect. The notice to CSM shall include adequate identification of the material involved, nature of the claimed defect, date of the installation, date of shipment and order number. Failure of the claimant to provide such information in the time provided shall be deemed as a waiver of the claimant's rights herein. CSM shall have an additional 30 days to inspect the CSM steel roofing and siding panels before any further action shall be taken.

4) CSM does not warrant or guarantee the interior or reversed side finish or repainted materials used for interior application.

5) CSM does not warrant or guarantee claims arising from damage to panels due to exposure to salt and salt water, water spray, corrosive or harmful chemicals (whether solids, liquids or gases), airborne contaminants, hail or other agents of a similar nature.

6) CSM does not warrant or guarantee claims arising from the following:

a) Damage or defects caused by acts of God, falling objects, external forces, explosion, fire, riots, civil commotion, acts of war, excessive radiation, or other similar or dissimilar occurrences beyond CSM's control.

b) Minor hairline cracking of the paint finish.

c) Defects or damages to the painted steel roofing and siding panels caused by handling, shipping, transit, processing, storage or installation; damage due to failure of the substrate.

d) Damage caused by moisture or other contamination prior to installation.

e) Steel shavings or minute iron particles from sawing sparks that come in contact with the painted surface.

f) Non-vertical panels that don't have an adequate degree of pitch so as not to allow any free standing or accumulation of standing water.

g) Stored or installed in a way that allows for contact with animals or animal waste.

h) Deterioration to the panels caused directly or indirectly by panel contact with fasteners. The selection of suitable fasteners rests solely with the buyer.

i) Weather uniformity under non-uniform conditions.

j) Unusual harmful fumes, chemically aggressive environment, foreign substances in the atmosphere, standing water or direct salt spray.

k) Damage due to green, wet or treated lumber.

7) The warranty applies to panels installed in the continental United States, Alaska, and Canada.

8) CSM extends this warranty solely to the buyer. This warranty is not transferable and non-assignable. Further, it is applicable only to the original owner of any structure where the material is installed.

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Mount Airy, NC 27030

Effective April 1, 2006.

SELECT 40 YEAR LIMITED WARRANTY

LIMITED WARRANTY AND LIMITATION OF LIABILITY FOR CENTRAL STATES MANUFACTURING (CSM) PANEL-LOC, PANEL-LOC PLUS, R-LOC, HORIZON-LOC, M-LOC, CENTRAL-LOC AND CENTRAL SEAM PLUS STEEL ROOFING AND SIDING PANELS. THIS WARRANTY COVERS SELECT MATERIAL ONLY. PRIME AND THRIFTY MATERIAL ARE COVERED BY SEPARATE WARRANTIES.

CSM is pleased to present you with our 40-year Select limited warranty.

For forty (40) years from the date of installation, the color coated finish WILL NOT crack, check or peel (lose adhesion). This does not include minute fracturing, which may occur in proper fabrication of the building parts. **Failure due to substrate corrosion is excluded.**

SIDEWALL PANELS (for thirty (30) years from installation or thirty and one half (30-1/2) years from coating application)

- a) WILL NOT chalk in excess of ASTM-D-4214-98 method A D659 number nine (9) rating.
- b) WILL NOT change color more than five (5.0) Hunter ΔE units as determined by ASTM method D-2244-02. Color change shall be measured on an exposed painted surface that has been cleaned of surface soils and chalk, and the corresponding values measured on the original or unexposed painted surface. It is understood that fading or color changes may not be uniform if the surfaces are not equally exposed to the sun and elements.

ROOFING PANELS (for thirty (30) years from installation or thirty and one half (30-1/2) years from coating application)

- a) WILL NOT chalk in excess of ASTM D-4214-98 method A D659 number eight (8) rating.
- b) WILL NOT change color more than six (6.0) Hunter ΔE units as determined by ASTM method D-2244-02. Color change shall be measured on an exposed painted surface that has been cleaned of surface soils and chalk, and the corresponding values measured on the original or unexposed painted surface. It is understood that fading or color changes may not be uniform if the surfaces are not equally exposed to the sun and elements.

In case of a complaint, you will provide access to us and assist us as necessary in determining the exact cause of the failure. ASTM and NCCA testing procedures will be used.

If our Select coatings fail to comply with our limited warranty, we will pay for the labor and material reasonably necessary to repaint, repair or replace, at our option, the building part showing the failure. In order for the warranty to be effective, however, you must notify us in writing of the failure within thirty (30) days of the discovery of such problem and provide any documentation we may require. If we repaint, we will use normal painting practices using the same paint system or other suitable alternatives. This warranty also applies to the part we repaint, repair, or replace, but only for the unexpired portion of the warranty period applicable to the original part.

Our LIMITED WARRANTY DOES NOT APPLY to circumstances which we do not control, including:

Acts of God, falling objects, explosions, fire or other such similar or dissimilar occurrences beyond CSM's control;
Unusual harmful fumes, foreign substances in the atmosphere, standing water, or salt spray;
Improper treatment of or defects in the metal or in the fabrication;
Stored or installed in a way that allows for poor air circulation;
Stored or installed in a way that allows for contact with animals or animal waste;
Mishandled Products, e.g., ANY PRODUCT THAT HAS BEEN ABUSED, ALTERED, MODIFIED, USED IN A MANNER NOT ORIGINALLY INTENDED, OR STORED CONTRARY TO OUR INSTRUCTIONS. Including a) damage to the product occasioned by condensation attributable to improper packaging, handling, shipping, processing and/or installation; b) damage due to failure of the substrate.

This warranty will apply only to metal which is coated with Fluoropon and used on property located within the continental United States, Alaska, and Canada.

Some colors may not meet our high standards. The warranty applies only to colors that are on our approved color list. Metallics are not color measurable and are not applicable to section 1b.

For our warranty to apply, you must maintain certain records necessary to identify the Select panels involved in a complaint. You need to make them available to us for inspection and copying.

This is our only warranty concerning the Select products color coated finish. We have no other obligations concerning them. Please read and understand the following:

Except for this warranty, we make NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, WITH RESPECT TO OUR SELECT PRODUCTS COLOR COATED FINISH. IMPLIED WARRANTIES OR FITNESS AND MERCHANTABILITY ARE EXCLUDED. Further, we have no other liability with respect to our Select products color coated finish, whether based on warranty, negligence or any other legal theory. For example, we have no liability for consequential damages.

That is our complete warranty. It sets out all of our obligations regarding our Select product coil coatings. It is only for your benefit and is not assignable. Such things as your purchase order forms or our acceptance forms cannot change it, but it can be changed if CSM agrees in writing.

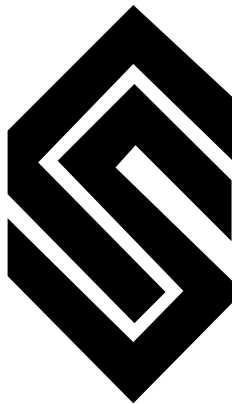
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CENTRAL STATES

**MANUFACTURING, INC.
METAL BUILDING COMPONENTS
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