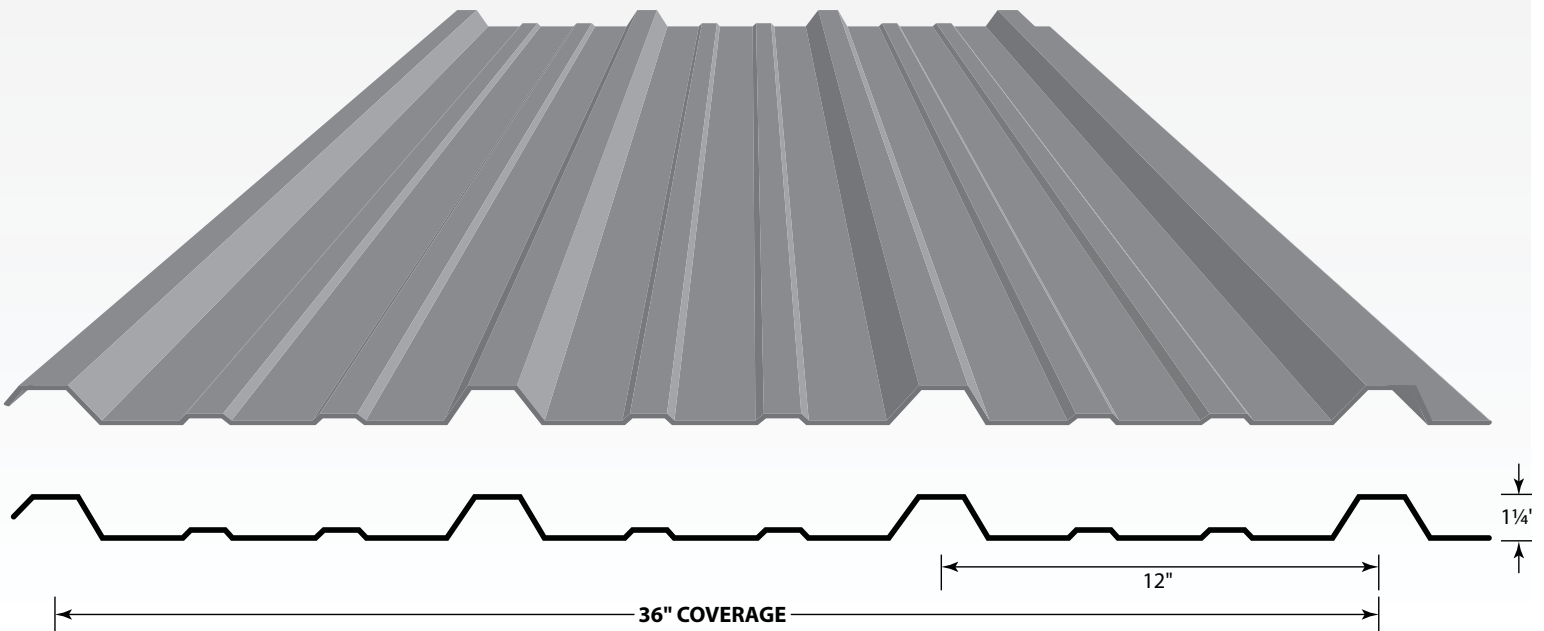


R-Loc™ Product Guide

HELPFUL INFORMATION ON PANELS, TRIMS, PURLINS, GUTTERS AND ACCESSORIES

Distributed By:
Michiana Building Supplies, Co.
269-683-2723
www.MichianaBuildingSupplies.com
www.MetalRoofing.pro
www.MetalRoofing4Less.com



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

Central States Manufacturing, Inc. is a **100% employee-owned** company devoted to the **personal growth and well-being** of our owners. We are dedicated to **increasing the value of our company** by **making Raving Fans** of our customers through **exceeding their expectations**, being **easy to do business with**, demonstrating **excellence** in all aspects of our business and being committed to **improving their business**.

It is our promise to maintain **honesty and integrity** with everyone our lives may touch. With thanksgiving for the blessings we have been given, we are committed to **serving the communities** where we live and work by giving back a portion of our time, talents and profits.



Right.
On Time.
Every Time.®

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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.

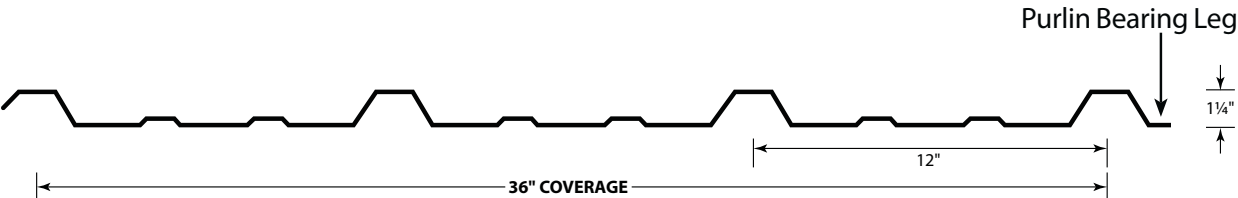
Information contained in this booklet was in effect at the time of publication and is subject to change without notice.

R-LOC™

R-loc is available in 26 ga. painted and bare Galvalume®. Prime panels come with CentralGuard protection that includes superior dent resistance, a lifetime limited paint warranty, and a 20-year substrate warranty. Bare (non-painted) panels from Central States have an acrylic coating which eliminates using oils during manufacturing, and eliminates fingerprinting and foot marking during installation. Bare, unpainted Galvalume is not warranted for uniformity in appearance, whether it be color, sheen, or spangle. If the project requires a uniform appearance, please choose a painted product.

Central States' 26 ga. steel is manufactured to meet ASTM A792 specifications for galvalume with a minimum yield of 80,000 PSI. The R-Loc panel also has a Class 4 UL2218 impact resistance rating, a Class A UL790 fire resistance rating, and a Class 90 UL580 uplift resistance rating.

The recommended minimum roof slope for the 1¼" R-Loc is a ½:12 pitch. This will allow for sufficient drainage of water. For added protection, a sealant tape can be used on the laps of the panel.



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Galvalume® is a registered trademark of BIEC International, Inc.

PANEL CODES

Use the panel and color codes below to create the code you need. For example: R-Loc 26 gauge Prime in Fern would be HRFL.

PANEL PROFILE	TYPE	CODE
R-Loc	26 Gauge Prime	HR(color)L
R-Loc	26 Gauge Thrifty	6(color)5R

COLOR CODES

SMP	CODE
Brilliant	BI
Brown	BR
Burgundy	BG
Burnished Slate	BS
Charcoal	C
Colony	CG
Copper Metallic*	CM
Crimson	CR
Desert	DS
Fern	F
Gallery	GB
Galvalume®	GL
Gray	G
Hawaiian	B
Hunter	GR
Light Stone	S
Polar	W
Rustic	R
Tan	T

* Copper Metallic is Fluoropon®. Galvalume® is a registered trademark of BIEC International, Inc..

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 equipment or at least 3 people available to unload the truck.

CARE AND HANDLING

STORAGE

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.

HANDLING

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 at 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 longitudinally and carry vertically.

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

CARE AND HANDLING

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.

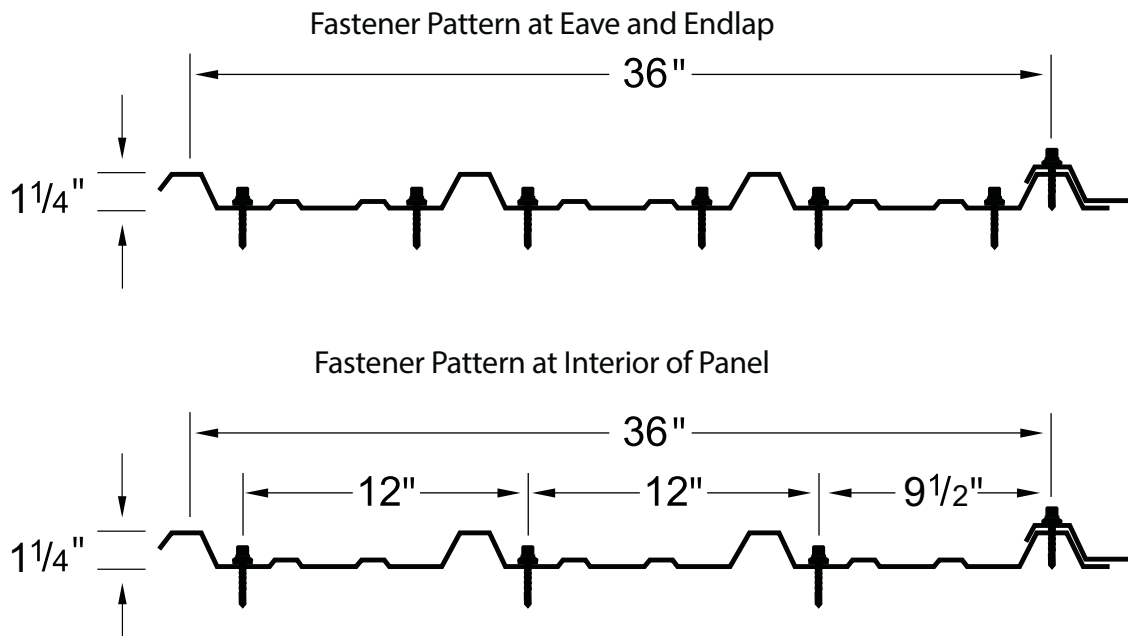
INSTALLATION

Follow instructions for UL580 Class 90.

Shavings created by saw cutting or drilling may cause the panel to rust and will void warranties in affected areas.

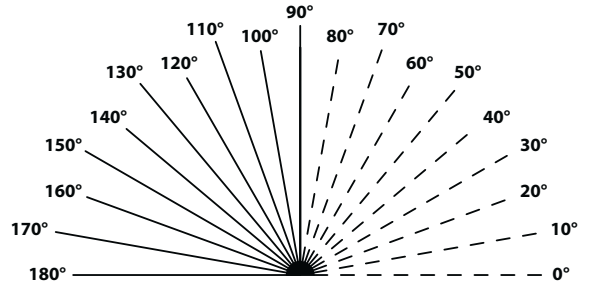
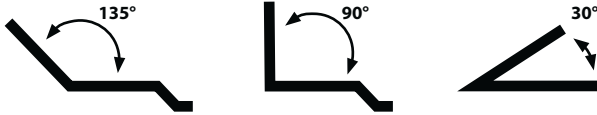


FASTENER SPACING



CONVERTING PITCH TO DEGREE

Use these charts to calculate degrees when designing custom trim.
Please specify pitch when ordering.



SINGLE SLOPE PITCHES

Fascia, Eave, Endwall, Tie-In, Gutter

DOUBLE SLOPE PITCHES

Hip, Valley

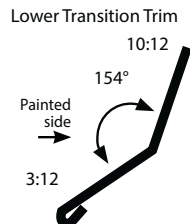
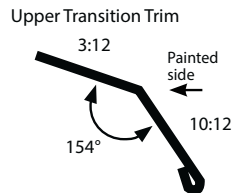
RIDGE CAP

	1:12 PITCH	2:12 PITCH	3:12 PITCH	4:12 PITCH	5:12 PITCH	6:12 PITCH	7:12 PITCH	8:12 PITCH	9:12 PITCH	10:12 PITCH	11:12 PITCH	12:12 PITCH
SINGLE SLOPE PITCHES	94°	99°	104°	108°	112°	116°	120°	123°	126°	129°	132°	135°
DOUBLE SLOPE PITCHES	173°	167°	160°	154°	148°	143°	138°	134°	130°	126°	123°	120°
RIDGE CAP	170°	161°	152°	143°	135°	127°	120°	113°	106°	100°	95°	90°

TRANSITION TRIM

Find the box that intersects your lower and upper roof pitches.

If the intersection lands in the gray area, select an Lower Transition trim.



LOWER ROOF PITCH (INCHES OF RISE OVER 12" OF RUN)

	1:12 PITCH	2:12 PITCH	3:12 PITCH	4:12 PITCH	5:12 PITCH	6:12 PITCH	7:12 PITCH	8:12 PITCH	9:12 PITCH	10:12 PITCH	11:12 PITCH	12:12 PITCH	13:12 PITCH	14:12 PITCH	15:12 PITCH	16:12 PITCH	17:12 PITCH	18:12 PITCH
1:12 PITCH		175°	171°	166°	162°	158°	155°	151°	148°	145°	142°	140°	137°	135°	133°	132°	130°	128°
2:12 PITCH	175°		175°	171°	167°	163°	159°	156°	153°	150°	147°	144°	142°	140°	138°	136°	135°	133°
3:12 PITCH	171°	175°		176°	171°	167°	164°	160°	157°	154°	152°	149°	147°	145°	143°	141°	139°	138°
4:12 PITCH	166°	171°	176°		176°	172°	168°	165°	162°	159°	156°	153°	151°	149°	147°	145°	144°	142°
5:12 PITCH	162°	167°	171°	176°		176°	172°	169°	166°	163°	160°	158°	155°	153°	151°	149°	148°	146°
6:12 PITCH	158°	163°	167°	172°	176°		176°	173°	170°	167°	164°	162°	159°	157°	155°	153°	152°	150°
7:12 PITCH	155°	159°	164°	168°	172°	176°		177°	173°	170°	168°	165°	163°	161°	159°	157°	155°	154°
8:12 PITCH	151°	156°	160°	165°	169°	173°	177°		177°	174°	171°	169°	166°	164°	162°	161°	159°	157°
9:12 PITCH	148°	153°	157°	162°	166°	170°	173°	177°		177°	174°	172°	170°	167°	166°	164°	162°	161°
10:12 PITCH	145°	150°	154°	159°	163°	167°	170°	174°	177°		177°	175°	173°	170°	168°	167°	165°	163°
11:12 PITCH	142°	147°	152°	156°	160°	164°	168°	171°	174°	177°		178°	175°	173°	171°	169°	168°	166°
12:12 PITCH	140°	144°	149°	153°	158°	162°	165°	169°	172°	175°	178°		178°	176°	174°	172°	170°	169°

SQUARE CONVERSIONS

For 26 ga. panels there are 2 formulas; one for panels measured in inches and one for panels measured in feet. While the actual panel width is 38.5", there will only be 36" of coverage per panel. Squares are figured based on actual width. One square is equal to a panel 31.169 feet long. One square of metal will give you approximately 94.5 square feet of coverage. One square is equal to 14,400 square inches.

EXAMPLE 1:

38.5 (or width in inches) multiplied by length in inches multiplied by # of pieces divided by 14,400

Number of panels = 12 $\frac{38.5" \times 144" \times 12}{14,400}$ equals 4.62 squares of metal
 Panel width = 38.5"
 Panel length = 144"
 Square inches = 14,400

EXAMPLE 2:

length in feet multiplied by # of pieces divided by 31.169

Number of panels = 12 $\frac{12 \times 12}{31.169}$ equals 4.62 squares of metal
 Panel width = 38.5"
 Panel length = 12'
 Square inches = 14,400

COMMON RAFTER LENGTHS (PEAK TO SIDEWALL)

Running Feet	1:12 Pitch	2:12 Pitch	3:12 Pitch	4:12 Pitch	5:12 Pitch	6:12 Pitch
1	1' 0"	1' 1/8"	1' 3/8"	1' 5/8"	1' 1"	1' 1-3/8"
2	2' 1/8"	2' 3/8"	2' 3/4"	2' 1-1/4"	2' 2"	2' 2-7/8"
3	3' 1/8"	3' 1/2"	3' 1-1/8"	3' 2"	3' 3"	3' 4-1/4"
4	4' 1/8"	4' 5/8"	4' 1-1/2"	4' 2-5/8"	4' 4"	4' 5/8"
5	5' 1/4"	5' 7/8"	5' 1-7/8"	5' 3-1/4"	5' 5"	5' 7-1/8"
6	6' 1/4"	6' 1"	6' 2-1/4"	6' 3-7/8"	6' 6"	6' 8-1/2"
7	7' 1/4"	7' 1-1/8"	7' 2-5/8"	7' 4-1/2"	7' 7"	7' 9-7/8"
8	8' 3/8"	8' 1-3/8"	8' 3"	8' 5-1/4"	8' 8"	8' 11-3/8"
9	9' 3/8"	9' 1-1/2"	9' 3-3/8"	9' 5-7/8"	9' 9"	10' 3/4"
10	10' 3/8"	10' 1-5/8"	10' 3-3/4"	10' 6-1/2"	10' 10"	11' 2-1/8"
11	11' 1/2"	11' 1-7/8"	11' 4-1/8"	11' 7-1/8"	11' 11"	12' 3-5/8"
12	12' 1/2"	12' 2"	12' 4-3/8"	12' 7-3/4"	13' 0"	13' 5"
13	13' 1/2"	13' 2-1/8"	13' 4-3/4"	13' 8-1/2"	14' 1"	14' 6-3/8"
14	14' 5/8"	14' 2-3/8"	14' 8-1/8"	14' 9-1/8"	15' 2"	15' 7-7/8"
15	15' 5/8"	15' 2-1/2"	15' 5-1/2"	15' 9-3/4"	16' 3"	16' 9-1/4"
16	16' 5/8"	16' 2-5/8"	16' 5-7/8"	16' 10-3/8"	17' 4"	17' 10-5/8"
17	17' 5/8"	17' 2-7/8"	17' 6-1/4"	17' 11"	18' 5"	19' 1/8"
18	18' 3/4"	18' 3"	18' 6-5/8"	18' 11-5/8"	19' 6"	20' 1-1/2"
19	19' 3/4"	19' 3-1/8"	19' 7"	20' 3/8"	20' 7"	21' 2-7/8"
20	20' 7/8"	20' 3-3/8"	20' 7-3/8"	21' 1"	21' 8"	22' 4-3/8"
21	21' 7/8"	21' 3-1/2"	21' 7-3/4"	22' 1-5/8"	22' 9"	23' 5-3/4"
22	22' 7/8"	22' 3-5/8"	22' 8-1/8"	23' 2-1/4"	23' 10"	24' 7-1/8"
23	23' 1"	23' 3-3/4"	23' 8-1/2"	24' 3"	24' 11"	25' 8-5/8"
24	24' 1"	24' 4"	24' 8-7/8"	25' 3-5/8"	26' 0"	26' 10"
25	25' 1"	25' 4-1/8"	25' 9-1/4"	26' 4-1/4"	27' 1"	27' 11-3/8"
26	26' 1-1/8"	26' 4-1/4"	26' 9-1/2"	27' 5"	28' 2"	29' 3/4"
27	27' 1-1/8"	27' 4-1/2"	27' 9-7/8"	28' 5-5/8"	29' 3"	30' 2-1/4"
28	28' 1-1/8"	28' 4-3/4"	28' 10-1/4"	29' 6-1/4"	30' 4"	31' 3-3/4"
29	29' 1-1/4"	29' 4-7/8"	29' 10-5/8"	30' 6-7/8"	31' 5"	32' 5-1/8"
30	30' 1-1/4"	30' 5"	30' 11"	31' 7-1/2"	32' 6"	33' 6-1/2"
31	31' 1-3/8"	31' 5-1/8"	31' 11-3/8"	32' 8-1/8"	33' 7"	34' 7-7/8"
32	32' 1-3/8"	32' 5-1/4"	32' 11-3/4"	33' 8-3/4"	34' 8"	35' 9-1/4"
33	33' 1-1/2"	33' 5-1/2"	34' 1/8"	34' 9-3/8"	35' 9"	36' 10-3/4"
34	34' 1-1/2"	34' 5-3/4"	35' 1/2"	35' 10"	36' 10"	38' 1/4"
35	35' 1-1/2"	35' 5-7/8"	36' 7/8"	36' 10-5/8"	37' 11"	39' 1-5/8"

SECTION PROPERTIES

36" WIDE, CSMI R-LOC™ PANEL

Gauge	Thickness (inches)	Weight (psf)	Yield Stress (ksi)	Top in Compression (Positive Bending)			Bottom in Compression (Negative Bending)		
				I _{xx}	S _{xx}	Ma	I _{xx}	S _{xx}	Ma
				in ⁴ /ft	in ³ /ft	in.kips/ft	in ⁴ /ft	in ³ /ft	in.kips/ft
26	0.0185	0.881	80.0	0.0400	0.0406	1.4590	0.0373	0.0497	1.7847

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 & WIND LOADS

SINGLE SPAN CONDITION

Span (feet)	26 Gauge & 80 ksi			
	LL (S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)
3	108.1	108.1	97.1	175.8
3.5	79.4	79.4	61.2	129.2
4	60.8	54.6	41.0	98.9
4.5	48.0	38.4	28.8	78.1
5	38.9	28.0	21.0	63.3
6	27.0	16.2	12.1	44.0
7	19.9	10.2	7.6	32.3
8	15.2	6.8	5.1	24.7

TWO SPAN CONDITION

Span (feet)	26 Gauge & 80 ksi			
	LL (S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)
3	132.2	132.2	126.5	143.7
3.5	97.1	97.1	79.6	105.6
4	74.4	71.1	53.3	80.9
4.5	58.8	50.0	37.5	63.9
5	47.6	36.4	27.3	51.7
6	33.0	21.1	15.8	35.9
7	24.3	13.3	10.0	26.4
8	18.6	8.9	6.7	20.2

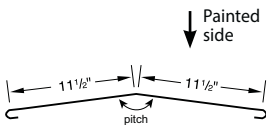
THREE OR MORE SPAN CONDITION

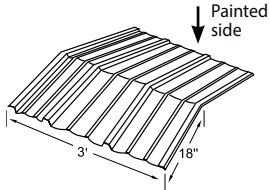
Span (feet)	26 Gauge & 80 ksi			
	LL (S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)
3	154.4	154.4	154.4	167.9
3.5	113.5	113.5	113.5	123.4
4	86.9	86.9	77.3	94.5
4.5	68.6	68.6	54.3	74.6
5	55.6	52.8	39.6	60.5
6	38.6	30.5	22.9	42.0
7	28.4	19.2	14.4	30.8
8	21.7	12.9	9.7	23.6


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%.

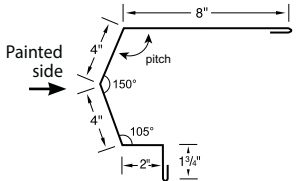
R-LOC TRIMS

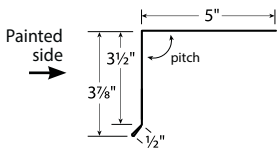
Unless otherwise noted, all angles are 90° or 45°, hems are 1/2" closed, and trims are 26 gauge. See page 6 for color codes.

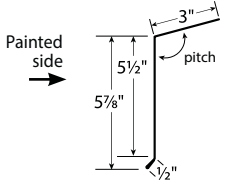
	PART #	LENGTH	GIRTH	NOTES
	UN102(color)	10'2"	24"	specify pitch
	UN122(color)	12'2"	24"	
	UN142(color)	14'2"	24"	additional pallet charge may apply.
	UN162(color)	16'2"	24"	
	UN182(color)	18'2"	24"	
	UN204(color)	20'4"	24"	

	PART #	LENGTH	NOTES
	FRC36(color)	3'0"	specify pitch up to 4:12
			longer lead times may apply

	PART #	LENGTH	GIRTH	NOTES	
	FS102(color)	10'2"	41.5625"	26 ga.	
	FS122(color)	12'2"	41.5625"	26 ga.	
	FS142(color)	14'2"	41.5625"	26 ga.	Additional pallet charge on orders of 10 or more. Order quantity under 10 sheet will be packaged in a roll.
	FS162(color)	16'2"	41.5625"	26 ga.	
	FS182(color)	18'2"	41.5625"	26 ga.	
	FS204(color)	20'4"	41.5625"	26 ga.	

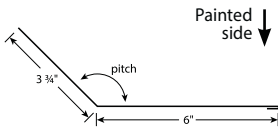
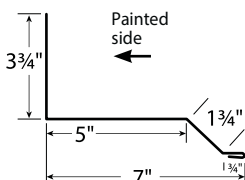
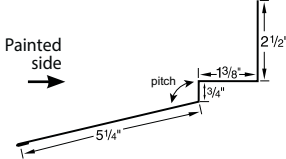
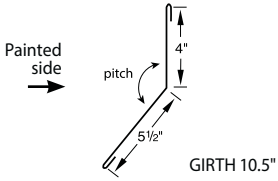
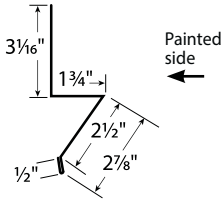
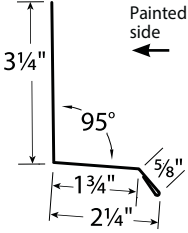
	PART #	LENGTH	GIRTH	NOTES
	HI102(color)	10'2"	20.75"	specify pitch
	HI122(color)	12'2"	20.75"	
	HI142(color)	14'2"	20.75"	
	HI162(color)	16'2"	20.75"	
	HI182(color)	18'2"	20.75"	
	HI204(color)	20'4"	20.75"	

	PART #	LENGTH	GIRTH	NOTES
	SEA102(color)	10'2"	9.5"	specify pitch
	SEA122(color)	12'2"	9.5"	
	SEA142(color)	14'2"	9.5"	
	SEA162(color)	16'2"	9.5"	
	SEA182(color)	18'2"	9.5"	
	SEA204(color)	20'4"	9.5"	

	PART #	LENGTH	GIRTH	NOTES
	LEA102(color)	10'2"	9.5"	specify pitch
	LEA122(color)	12'2"	9.5"	
	LEA142(color)	14'2"	9.5"	
	LEA162(color)	16'2"	9.5"	
	LEA182(color)	18'2"	9.5"	
	LEA204(color)	20'4"	9.5"	

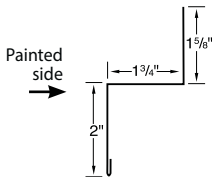
R-LOC TRIMS

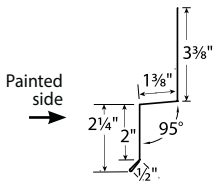
Unless otherwise noted, all angles are 90° or 45°, hems are 1/2" closed, and trims are 26 gauge. See page 6 for color codes.

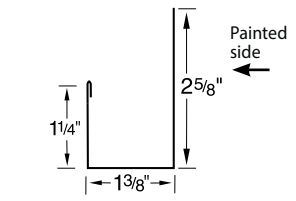
	PART #	LENGTH	GIRTH	NOTES
ENDWALL TRIM 	EW102(color)	10'2"	10.25"	specify trim
	EW122(color)	12'2"	10.25"	
	EW142(color)	14'2"	10.25"	
	EW162(color)	16'2"	10.25"	
	EW182(color)	18'2"	10.25"	
	EW204(color)	20'4"	10.25"	
SIDEWALL TRIM 	ST102(color)	10'2"	11.75"	
	ST122(color)	12'2"	11.75"	
	ST142(color)	14'2"	11.75"	
	ST162(color)	16'2"	11.75"	
	ST182(color)	18'2"	11.75"	
	ST204(color)	20'4"	11.75"	
TIE IN TRIM 	TI102(color)	10'2"	10.375"	specify pitch
	TI122(color)	12'2"	10.375"	
	TI142(color)	14'2"	10.375"	
	TI162(color)	16'2"	10.375"	
	TI182(color)	18'2"	10.375"	
	TI204(color)	20'4"	10.375"	
HIGH SIDE PARAPET TRIM 	HSP102(color)	10'2"	10.5"	specify pitch
	HSP122(color)	12'2"	10.5"	
	HSP142(color)	14'2"	10.5"	
	HSP162(color)	16'2"	10.5"	
	HSP182(color)	18'2"	10.5"	
	HSP204(color)	20'4"	10.5"	
COMMERCIAL RAT GUARD 	RG102(color)	10'2"	8.3125"	
	RG122(color)	12'2"	8.3125"	
	RG142(color)	14'2"	8.3125"	
	RG162(color)	16'2"	8.3125"	
	RG182(color)	18'2"	8.3125"	
	RG204(color)	20'4"	8.3125"	
BASE TRIM 	BA102(color)	10'2"	6.125"	
	BA122(color)	12'2"	6.125"	
	BA142(color)	14'2"	6.125"	
	BA162(color)	16'2"	6.125"	
	BA182(color)	18'2"	6.125"	
	BA204(color)	20'4"	6.125"	

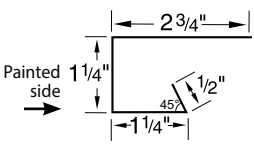
R-LOC TRIMS

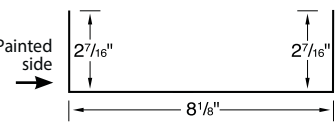
Unless otherwise noted, all angles are 90° or 45°, hems are 1/2" closed, and trims are 26 gauge. See page 6 for color codes.

	PART #	LENGTH	GIRTH	NOTES
ZEE TRIM 	ZE102(color)	10'2"	5.875"	
	ZE122(color)	12'2"	5.875"	
	ZE142(color)	14'2"	5.875"	
	ZE162(color)	16'2"	5.875"	
	ZE182(color)	18'2"	5.875"	
	ZE204(color)	20'4"	5.875"	

WAINSCOT TRIM 	WA102(color)	10'2"	7.75"	
	WA122(color)	12'2"	7.75"	
	WA142(color)	14'2"	7.75"	
	WA162(color)	16'2"	7.75"	
	WA182(color)	18'2"	7.75"	
	WA204(color)	20'4"	7.75"	

HEAD TRIM 	HE036(color)	3'6"	5.75"	
	HE063(color)	6'3"	5.75"	
	HE073(color)	7'3"	5.75"	
	HE083(color)	8'3"	5.75"	
	HE102(color)	10'2"	5.75"	
	HE103(color)	10'3"	5.75"	
	HE123(color)	12'3"	5.75"	
	HE143(color)	14'3"	5.75"	
	HE163(color)	16'3"	5.75"	
	HE183(color)	18'3"	5.75"	
	HE204(color)	20'4"	5.75"	

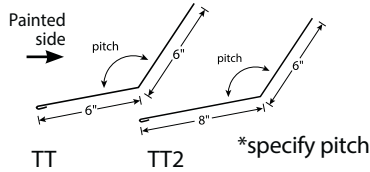
JAMB TRIM 	JA072(color)	7'2"	5.75"	
	JA102(color)	10'2"	5.75"	
	JA122(color)	12'2"	5.75"	
	JA142(color)	14'2"	5.75"	
	JA162(color)	16'2"	5.75"	
	JA204(color)	20'4"	5.75"	

JAMB HEADER 	JH102(color)	10'2"	13"	
	JH122(color)	12'2"	13"	
	JH142(color)	14'2"	13"	
	JH162(color)	16'2"	13"	
	JH182(color)	18'2"	13"	
	JH204(color)	20'4"	13"	

R-LOC TRIMS

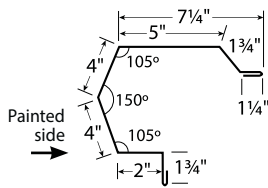
Unless otherwise noted, all angles are 90° or 45°, hems are 1/2" closed, and trims are 26 gauge. See page 6 for color codes.

TRANSITION TRIM*



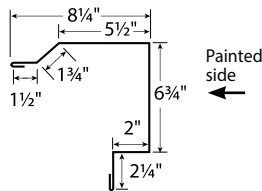
PART #	LENGTH	GIRTH	PART #	LENGTH	GIRTH
TT(color)102	10'2"	12.5"	TT2(color)102	10'2"	14.5"
TT(color)122	12'2"	12.5"	TT2(color)122	12'2"	14.5"
TT(color)142	14'2"	12.5"	TT2(color)142	14'2"	14.5"
TT(color)162	16'2"	12.5"	TT2(color)162	16'2"	14.5"
TT(color)182	18'2"	12.5"	TT2(color)182	18'2"	14.5"
TT(color)204	20'4"	12.5"	TT2(color)204	20'4"	14.5"

RAKE TRIM



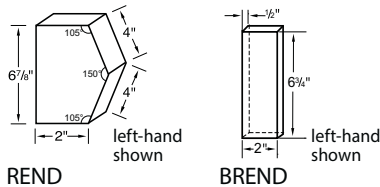
PART #	LENGTH	GIRTH	NOTES
RA102(color)	10'2"	20.75"	use PBOXF below for correct peak box
RA122(color)	12'2"	20.75"	
RA142(color)	14'2"	20.75"	
RA162(color)	16'2"	20.75"	
RA182(color)	18'2"	20.75"	
RA204(color)	20'4"	20.75"	

BOX RAKE TRIM



BRT102(color)	10'2"	20.75"	use PBBF below for correct peak box
BRT122(color)	12'2"	20.75"	
BRT142(color)	14'2"	20.75"	
BRT162(color)	16'2"	20.75"	
BRT182(color)	18'2"	20.75"	
BRT204(color)	20'4"	20.75"	

TRIM END CAP



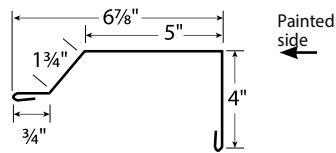
REND(color)	for Rake Trim
BREND(color)	for Box Rake Trim

PEAK BOX



PBOXF(color)	2'6"	for Rake Trim
PBBF(color)	3'	for Box Rake Trim
		specify pitch

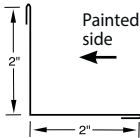
HOUSE RAKE TRIM

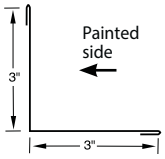


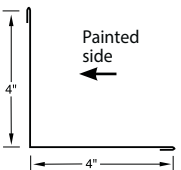
HRAR102(color)	10'2"	12.5"
HRAR122(color)	12'2"	12.5"
HRAR142(color)	14'2"	12.5"
HRAR162(color)	16'2"	12.5"
HRAR182(color)	18'2"	12.5"
HRAR204(color)	20'4"	12.5"

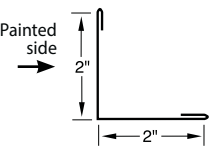
R-LOC TRIMS

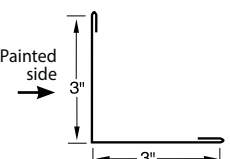
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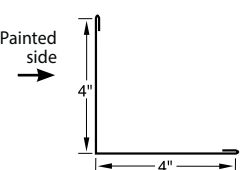
	PART #	LENGTH	GIRTH	NOTES
INSIDE ANGLE 2X2 	IA2102(color)	10'2"	5"	
	IA2122(color)	12'2"	5"	
	IA2142(color)	14'2"	5"	
	IA2162(color)	16'2"	5"	
	IA2182(color)	18'2"	5"	
	IA2204(color)	20'4"	5"	

INSIDE ANGLE 3X3 	IA3102(color)	10'2"	7"	
	IA3122(color)	12'2"	7"	
	IA3142(color)	14'2"	7"	
	IA3162(color)	16'2"	7"	
	IA3182(color)	18'2"	7"	
	IA3204(color)	20'4"	7"	

INSIDE ANGLE 4X4 	IA4102(color)	10'2"	9"	
	IA4122(color)	12'2"	9"	
	IA4142(color)	14'2"	9"	
	IA4162(color)	16'2"	9"	
	IA4182(color)	18'2"	9"	
	IA4204(color)	20'4"	9"	

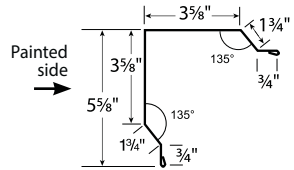
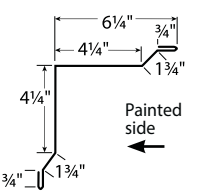
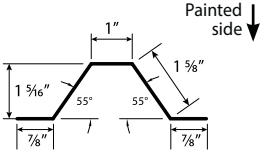
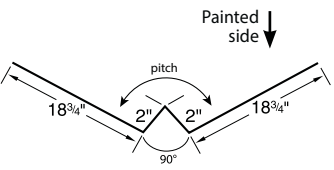
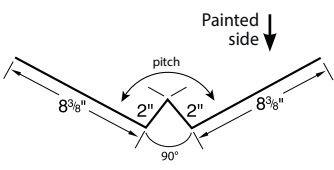
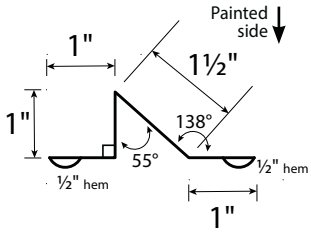
OUTSIDE ANGLE 2X2 	OA2102(color)	10'2"	5"	
	OA2122(color)	12'2"	5"	
	OA2142(color)	14'2"	5"	
	OA2162(color)	16'2"	5"	
	OA2182(color)	18'2"	5"	
	OA2204(color)	20'4"	5"	

OUTSIDE ANGLE 3X3 	OA3102(color)	10'2"	7"	
	OA3122(color)	12'2"	7"	
	OA3142(color)	14'2"	7"	
	OA3162(color)	16'2"	7"	
	OA3182(color)	18'2"	7"	
	OA3204(color)	20'4"	7"	

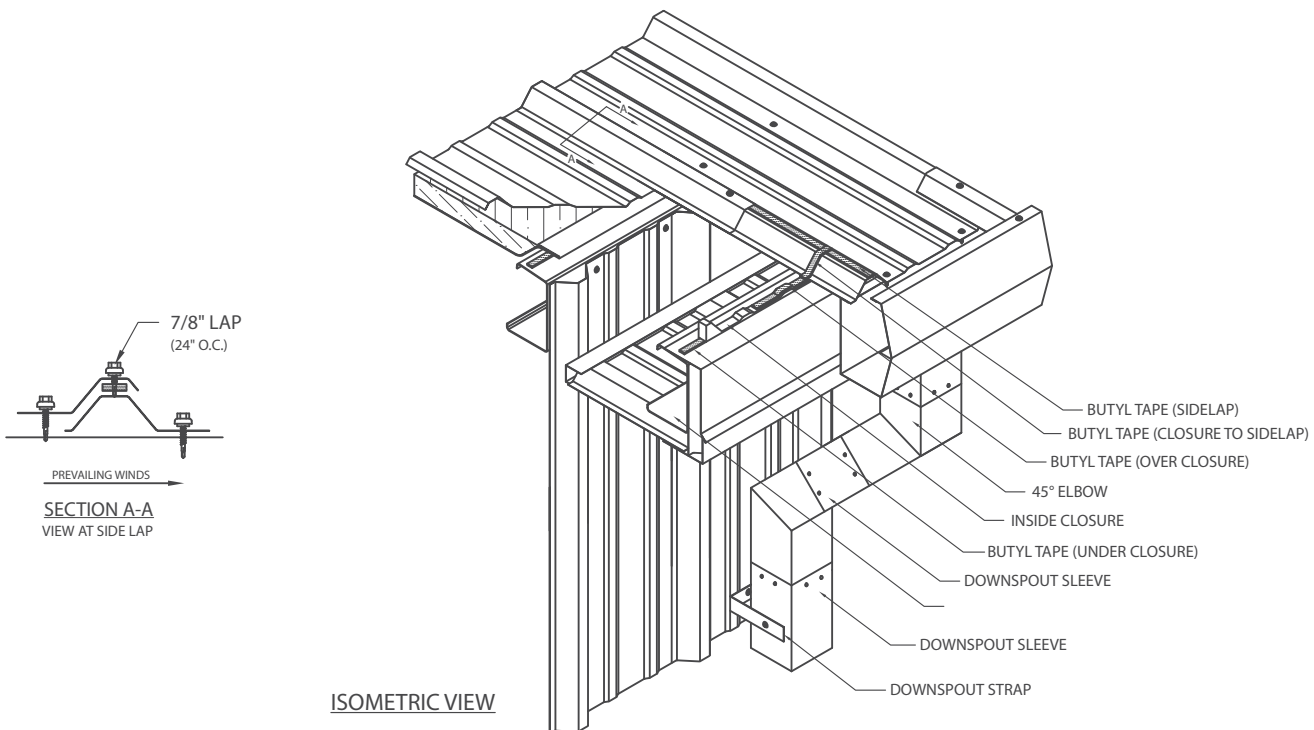
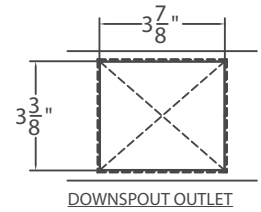
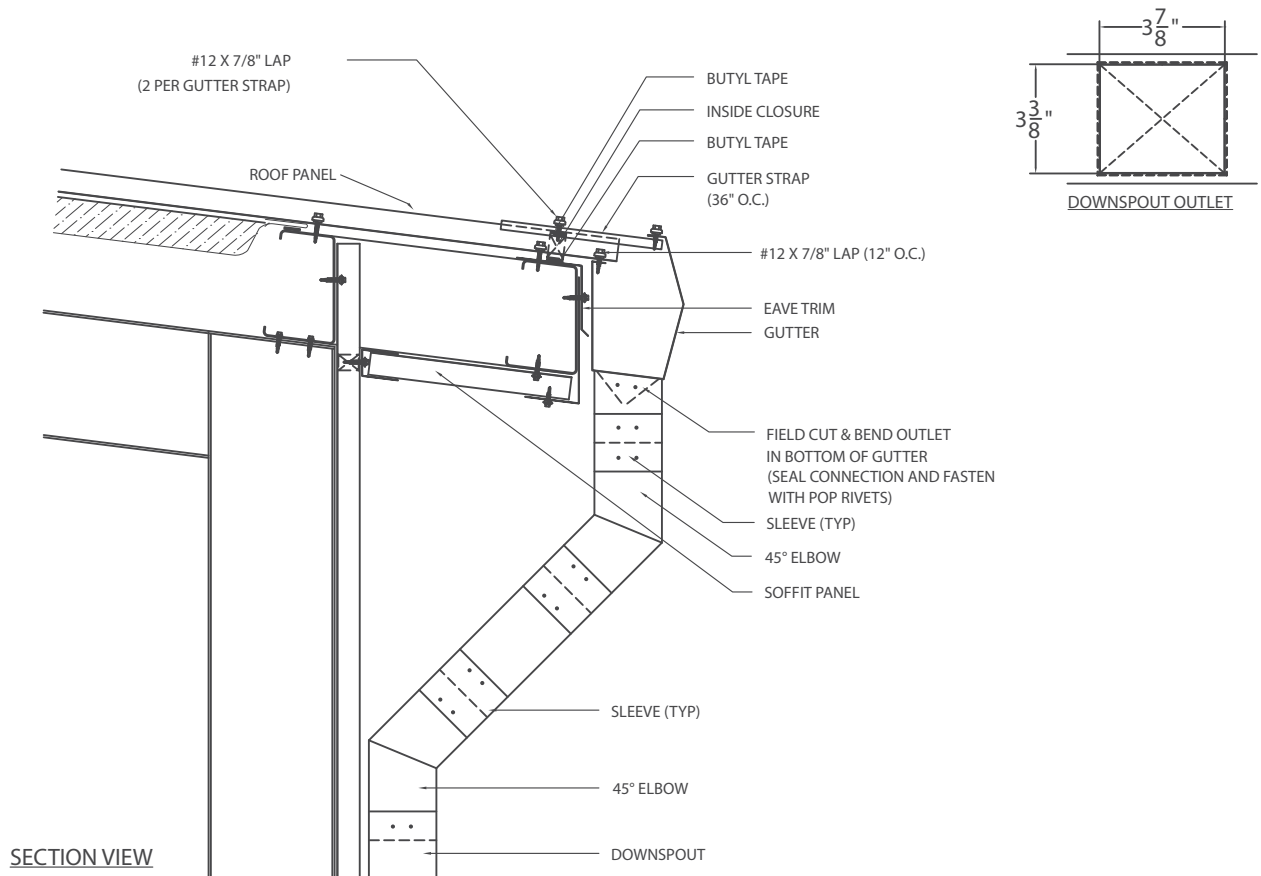
OUTSIDE ANGLE 4X4 	OA4102(color)	10'2"	9"	
	OA4122(color)	12'2"	9"	
	OA4142(color)	14'2"	9"	
	OA4162(color)	16'2"	9"	
	OA4182(color)	18'2"	9"	
	OA4204(color)	20'4"	9"	

R-LOC TRIMS

Unless otherwise noted, all angles are 90° or 45°, hems are 1/2" closed, and trims are 26 gauge. See page 6 for color codes.

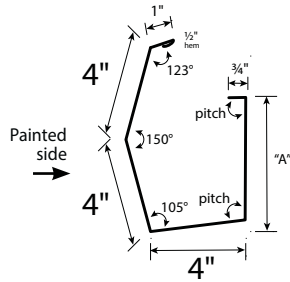
	PART #	LENGTH	GIRTH	NOTES	
OUTSIDE CORNER 	OU102(color)	10'2"	13.25"		
	OU122(color)	12'2"	13.25"		
	OU142(color)	14'2"	13.25"		
	OU162(color)	16'2"	13.25"		
	OU182(color)	18'2"	13.25"		
	OU204(color)	20'4"	13.25"		
INSIDE CORNER 	IN102(color)	10'2"	14.5"		
	IN122(color)	12'2"	14.5"		
	IN142(color)	14'2"	14.5"		
	IN162(color)	16'2"	14.5"		
	IN182(color)	18'2"	14.5"		
	IN204(color)	20'4"	14.5"		
SKYLIGHT TRIM 	SK102(color)	10'2"	6"		
	SK122(color)	12'2"	6"		
	SK142(color)	14'2"	6"		
	SK162(color)	16'2"	6"		
	SK182(color)	18'2"	6"		
	SK204(color)	20'4"	6"		
EXTENDED VALLEY 	EVA102(color)	10'2"	41.5"	intended for valley lengths of 30' or more	
	EVA122(color)	12'2"	41.5"		
	EVA142(color)	14'2"	41.5"	specify pitch	
	EVA162(color)	16'2"	41.5"		
	EVA182(color)	18'2"	41.5"	additional pallet charge will apply	
	EVA204(color)	20'4"	41.5"		
COMMERCIAL VALLEY 	VA102(color)	10'2"	20.75"	intended for valley lengths less than 30'	
	VA122(color)	12'2"	20.75"		
	VA142(color)	14'2"	20.75"	specify pitch	
	VA162(color)	16'2"	20.75"		
	VA182(color)	18'2"	20.75"	additional pallet charge will apply	
	VA204(color)	20'4"	20.75"		
SNOW GUARD 	SG6(color)	10'2"	5.5"	available in 10'2" only	

GUTTERS

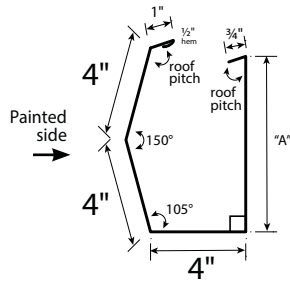


SCULPTURED GUTTERS

SCULPTURED HANG-ON



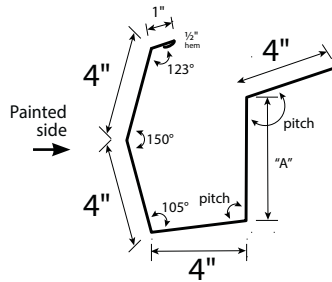
0 - 4:12



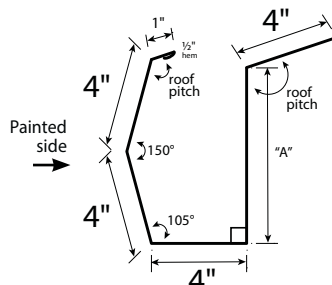
5:12, 6:12

PART #	LENGTH	DIM. "A"	GIRTH	PITCH
GU102(color)	10'2"	6.5"	20.75"	0-4:12
GU122(color)	12'2"	6.5"	20.75"	0-4:12
GU142(color)	14'2"	6.5"	20.75"	0-4:12
GU162(color)	16'2"	6.5"	20.75"	0-4:12
GU182(color)	18'2"	6.5"	20.75"	0-4:12
GU204(color)	20'4"	6.5"	20.75"	0-4:12
GU5102(color)	10'2"	7.9375"	22.1875"	5:12
GU5122(color)	12'2"	7.9375"	22.1875"	5:12
GU5142(color)	14'2"	7.9375"	22.1875"	5:12
GU5162(color)	16'2"	7.9375"	22.1875"	5:12
GU5182(color)	18'2"	7.9375"	22.1875"	5:12
GU5204(color)	20'4"	7.9375"	22.1875"	5:12
GU6102(color)	10'2"	8.1875"	22.4375"	6:12
GU6122(color)	12'2"	8.1875"	22.4375"	6:12
GU6142(color)	14'2"	8.1875"	22.4375"	6:12
GU6162(color)	16'2"	8.1875"	22.4375"	6:12
GU6182(color)	18'2"	8.1875"	22.4375"	6:12
GU6204(color)	20'4"	8.1875"	22.4375"	6:12

SCULPTURED EAVE



0 - 4:12

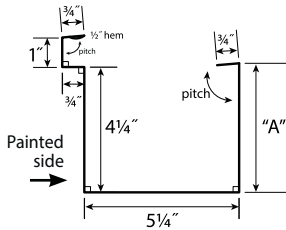


5:12, 6:12

SGU102(color)	10'2"	6.5"	24"	0-4:12
SGU122(color)	12'2"	6.5"	24"	0-4:12
SGU142(color)	14'2"	6.5"	24"	0-4:12
SGU162(color)	16'2"	6.5"	24"	0-4:12
SGU182(color)	18'2"	6.5"	24"	0-4:12
SGU204(color)	20'4"	6.5"	24"	0-4:12
SGU5102(color)	10'2"	7.9375"	25.4375"	5:12
SGU5122(color)	12'2"	7.9375"	25.4375"	5:12
SGU5142(color)	14'2"	7.9375"	25.4375"	5:12
SGU5162(color)	16'2"	7.9375"	25.4375"	5:12
SGU5182(color)	18'2"	7.9375"	25.4375"	5:12
SGU5204(color)	20'4"	7.9375"	25.4375"	5:12
SGU6102(color)	10'2"	8.1875"	25.6875"	6:12
SGU6122(color)	12'2"	8.1875"	25.6875"	6:12
SGU6142(color)	14'2"	8.1875"	25.6875"	6:12
SGU6162(color)	16'2"	8.1875"	25.6875"	6:12
SGU6182(color)	18'2"	8.1875"	25.6875"	6:12
SGU6204(color)	20'4"	8.1875"	25.6875"	6:12

BOX GUTTERS

BOX HANG-ON

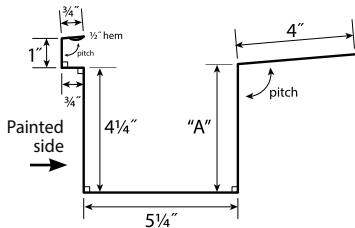


PART #	PITCH	GIRTH	DIM. "A"
BHG1(LENGTH)(COLOR)	1:12	17.625"	4.375"
BHG2(LENGTH)(COLOR)	2:12	18.125"	4.875"
BHG3(LENGTH)(COLOR)	3:12	18.563"	5.3125"
BHG4(LENGTH)(COLOR)	4:12	19.063"	5.8125"
BHG5(LENGTH)(COLOR)	5:12	19.5"	6.25"
BHG6(LENGTH)(COLOR)	6:12	20"	6.75"

Dimension "A" will change depending on chosen pitch.

Available in lengths 10'2" (102), 12'2" (122), 14'2" (142), 16'2" (162), 18'2" (182), 20'4" (204)

BOX EAVE



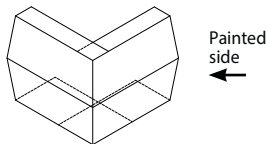
PART #	PITCH	GIRTH	DIM. "A"
BEG1(LENGTH)(COLOR)	1:12	20.875"	4.375"
BEG2(LENGTH)(COLOR)	2:12	21.375"	4.875"
BEG3(LENGTH)(COLOR)	3:12	21.813"	5.3125"
BEG4(LENGTH)(COLOR)	4:12	22.313"	5.8125"
BEG5(LENGTH)(COLOR)	5:12	22.75"	6.25"
BEG6(LENGTH)(COLOR)	6:12	23.25"	6.75"

Dimension "A" will change depending on chosen pitch.

Available in lengths 10'2" (102), 12'2" (122), 14'2" (142), 16'2" (162), 18'2" (182), 20'4" (204)

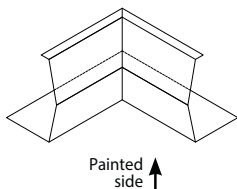
OUTSIDE CORNER BOX

OCB(color)
specify pitch.



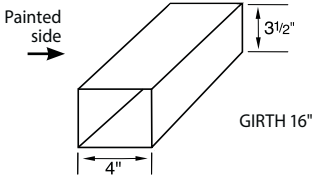
INSIDE CORNER BOX

ICB(color)



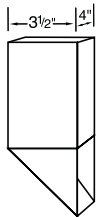
DOWNSPOUTS

DOWNSPOUT W/O KICKOUT



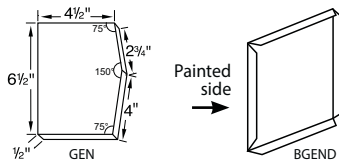
PART #	LENGTH
DS102(color)	10'2"
DS122(color)	12'2"
DS142(color)	14'2"
DS162(color)	16'2"
DS182(color)	18'2"
DS204(color)	20'4"

DOWNSPOUT WITH KICKOUT



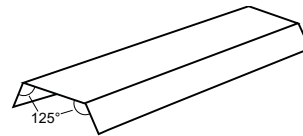
DK102(color)	10'2"
DK122(color)	12'2"
DK142(color)	14'2"
DK162(color)	16'2"
DK182(color)	18'2"
DK204(color)	20'4"

GUTTER END CAP



GEN(color)
specify pitch.
for standard or sculptured gutter.

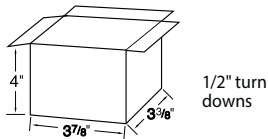
GUTTER STRAP



GS9(color) 9"

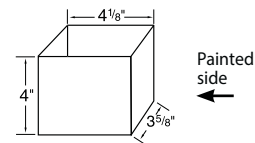
BGEND(color)
for box hang-on or box eave gutter

DOWNSPOUT OUTLET



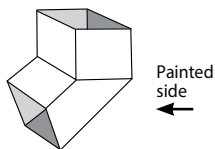
DSOUTLET(color)
specify pitch.

DOWNSPOUT CONNECTOR



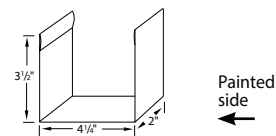
DSLVE(color)

DOWNSPOUT ELBOW



DSE45(color)
DSE90(color)

DOWNSPOUT STRAP

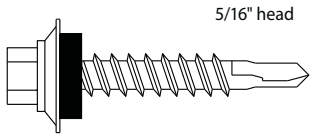


DSS2(color)

ACCESSORIES

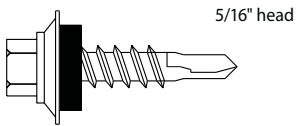
METAL/ METAL SCREWS #12

PART #	COLOR	LENGTH	#PER BAG	#PER BOX
114(color)MM	all	1 1/4"	250	2500
2ZMM	galvanized	2"	250	2000



LAP SCREWS #14

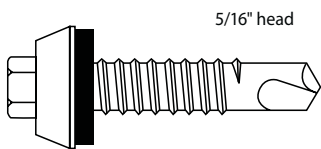
78(color)LAP	all	7/8"	250	2500
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*order in increments of 250pc

ZAC SCREWS/ METAL/METAL SCREWS

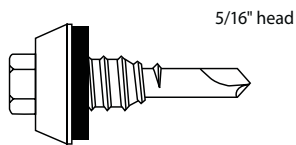
114ZACMM	galvanized	1 1/4"	250	2500
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*order in increments of 250pc

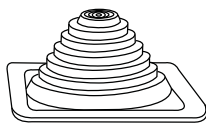
ZAC SCREWS/ LAP SCREWS

78ZACLAP	galvanized	7/8"	250	2500
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*order in increments of 250pc

MASTER PIPE FLASHING



Install in a diamond shape and not parallel to the rib.

PART #	PIPE SIZE	PART #	PIPE SIZE
MPF	.25" to 5.75"	4SMPF	2.75" to 7"
MPF2	.875" to 4"	6SMPF	4.75" to 10"
MPF4	2.75" to 7"	8SMPF	6.75" to 13.5"
MPF6	4.75" to 10"		
MPF8	6.75" to 13.5"		

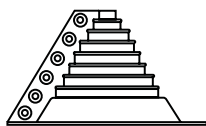
MAXIMUM TEMPERATURE 250 DEGREES

MAXIMUM TEMPERATURE 500 DEGREES

MASTER PIPE FLASHING WITH ZIPPER

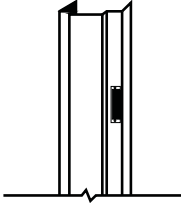
MPF1ZIP	.5" - 4" with zipper
MPF2ZIP	4" - 9.25" with zipper

Install in a diamond shape and not parallel to the rib.



ACCESSORIES

FRAMING PACKAGE*



PART #	SIZE	COLOR
4X3070JAMB	4.25" X 3070	White
4X4070JAMB	4.25" X 4070	White
6X3070JAMB	6.25" X 3070	White
6X4070JAMB	6.25" X 4070	White
8X3070JAMB	8.25" X 3070	White
8X4070JAMB	8.25" X 4070	White
8X6070JAMB	8.25" X 6070	White

Package includes: Jambs, headers, threshold, door lever with keyed lock, hinges, and weather strip kit.

NOTE: Frames are non-reversable. Swing-out only.

*longer lead times may apply

DOOR LEAF*

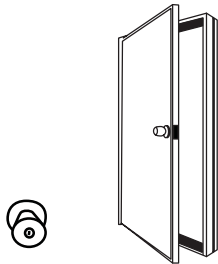


3070DOOR	3070	3' x 7'
3070DOORW/LITE (window)	3070	3' x 7'
4070DOOR	4070	4' x 7'

steel door leaf only

*longer lead times may apply

DOOR SET*



3068DR (Steel Jamb)	3068	38" x 81 3/16"
4068DR (Steel Jamb)	4068	50" x 81 3/16"

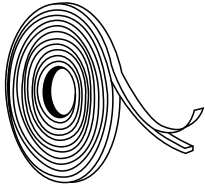
KNOB

knobs sold seperately

*longer lead times may apply

ACCESSORIES

BUTYL TAPE



Part #	LENGTH	WIDTH	THICKNESS	ROLLS PER BOX
BTL	45'	3/4"	3/32"	24
Recommended for R-Loc				
BTR	40'	7/8"	3/16"	10
BT3/8	45'	3/8"	3/32"	40

Install between fastener and exposed edge.
Rolls per box may vary by location and vendor. Check with your sales person for details.

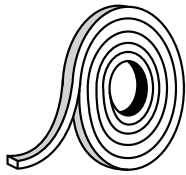
GRAYFLEX



JOINT
SEAL
TAPE

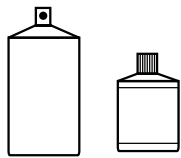
Part #	LENGTH	WIDTH	THICKNESS	ROLLS PER BOX
GRAYFLEX115	13'	1"	1 1/2"	24
For use with hips and valleys.			expanded size	

UNIVERSAL POLYFOAM



POLYG with adhesive	25'	1 1/2"	1 1/2"	10
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TOUCH UP PAINT



PART #	SIZE	NOTES
4(color)SP	0.6oz bottle with brush	
12PURSP	12oz spray can (purlin paint)	

SEALANT*



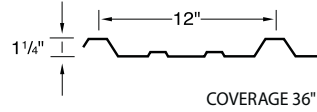
GEO(color)	10.3oz tube	clear, gray, white
MRS(color)	10.3oz tube	call for colors
MRSCLEAR	10.3oz tube	clear
MRSSKY	10.3oz tube	clear

Approved for skylight use.

*offering may vary by location

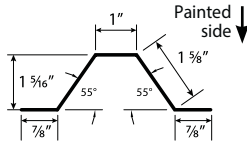
ACCESSORIES

POLYCARBONATE SKYLIGHT



PART #	COLOR	LENGTH
SKYPCWR12	White	12'
SKYPCCR12	Clear	12'

SKYLIGHT TRIM



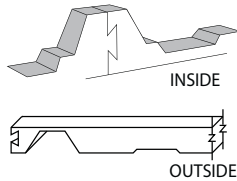
SK102(color)	10'2"	6"
SK122(color)	12'2"	6"
SK142(color)	14'2"	6"
SK162(color)	16'2"	6"
SK182(color)	18'2"	6"
SK204(color)	20'4"	6"

CLOSURE VENT



CLVRM	3'
25 per box	

CLOSURES

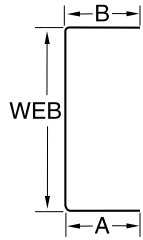


CLOUTR	(R-loc outside no adhesive)	3'
CLINR	(R-loc inside no adhesive)	3'
CLOUTRGLUE	(R-loc outside with adhesive)	3'
CLINRGLUE	(R-loc inside with adhesive)	3'

100 per box

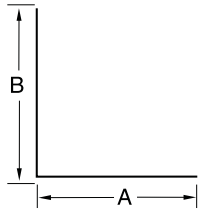
SUB-STRUCTURAL STEEL

CHANNELS - Secondary Framing Members



WEBxAxB	Gauge	Finish	Product Code
4.25x2.35x2.35	16	Red Oxide/Galvanized	U4216R/U4216Z
4.25x2.85x2.85	16	Red Oxide/Galvanized	U42516R/U42516Z
4.25x2.85x2.85	14	Red Oxide/Galvanized	U42514R/U42514Z
6.25x2.85x2.85	16	Red Oxide/Galvanized	U62516R/U62516Z
6.25x2.85x2.85	14	Red Oxide/Galvanized	U62514R/U62514Z
8.25x2.85x2.85	16	Red Oxide/Galvanized	U82516R/U82516Z
8.25x2.85x2.85	14	Red Oxide/Galvanized	U82514R/U82514Z
8.25x2.85x2.85	12	Red Oxide/Galvanized	U82512R/U82512Z

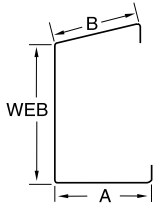
ANGLE - Secondary Framing Members



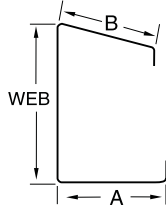
AxB	Gauge	Finish	Product Code
2.5x2.5	14	Red Oxide	B2514R
3x3	16	Red Oxide/Galvanized	B316R/B316Z
3x3	14	Red Oxide/Galvanized	B314R/B314Z
4x2	16	Red Oxide/Galvanized	B4216R/B4216Z
4x2	14	Red Oxide/Galvanized	B4214R/B4214Z
4x3	16	Red Oxide	B4316R

EAVE STRUTS - Secondary Framing Members

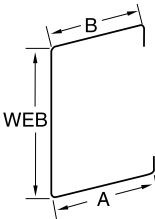
Single Slope Up



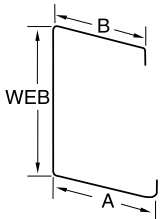
Single Slope Down



Double Slope Up



Double Slope Down



WEBxAxB	Gauge	Finish	Product Code
6x4x3	16	Red Oxide/Galvanized	E64316LR or HR/E64316LZ or HZ
6x4x3	14	Red Oxide/Galvanized	E64314LR or HR/E64314LZ or HZ
6x4x3	12	Red Oxide/Galvanized	E64312LR or HR/E64312LZ or HZ
8x4x3	14	Red Oxide/Galvanized	E84314LR or HR/E84314LZ or HZ
8x4x3	12	Red Oxide/Galvanized	E84312LR or HR/E84312LZ or HZ
8x5x3	14	Red Oxide/Galvanized	E85314LR or HR/E85314LZ or HZ
8x5x3	12	Red Oxide/Galvanized	E85312LR or HR/E85312LZ or HZ
8x5x5	14	Red Oxide	E85514LR or HR
10x5x3	14	Red Oxide	E105314LR or HR

Please specify pitch and slope when ordering.

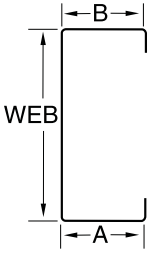
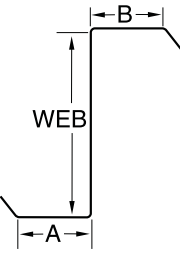


Central States has met the requirements to earn the accreditation for Cold-Formed Steel Structural and non-Structural Components Not Requiring Welding. For more information, go to www.iasonline.org.

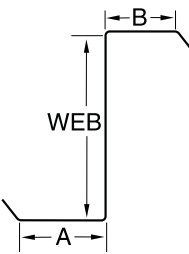
Members can be manufactured to the nearest 1/8" in length from 6'0" to 45'0". For lengths under 6'0" or over 45'0", please call your sales rep.

SUB-STRUCTURAL STEEL

STANDARD CEES & SYMMETRICAL ZEES - Secondary Framing Members

	WEBxAxB	Gauge	Finish	CEE Product Code	ZEE Product Code
	4x2x2	16	Red Oxide/Galvanized	C4216R/C4216Z	Z4216R/Z4216Z
	4x2.5x2.5	16	Red Oxide/Galvanized	C42516R/C42516Z	Z42516R/Z42516Z
	4x2.5x2.5	14	Red Oxide/Galvanized	C42514R/C42514Z	Z42514R/Z42514Z
	4x3.5x3.5	16	Red Oxide/Galvanized	C43516R/C43516Z	Z43516R/Z43516Z
	4x3.5x3.5	14	Red Oxide/Galvanized	C43514R/C43514Z	Z43514R/Z43514Z
	6x2.5x2.5	16	Red Oxide/Galvanized	C62516R/C62516Z	Z62516R/Z62516Z
	6x2.5x2.5	14	Red Oxide/Galvanized	C62514R/C62514Z	Z62514R/Z62514Z
	8x2.5x2.5	16	Red Oxide/Galvanized	C82516R/C82516Z	Z82516R/Z82516Z
	8x2.5x2.5	14	Red Oxide/Galvanized	C82514R/C82514Z	Z82514R/Z82514Z
	8x2.5x2.5	12	Red Oxide/Galvanized	C82512R/C82512Z	Z82512R/Z82512Z
	8x3.5x3.5	16	Red Oxide/Galvanized	C83516R C83516Z	Z83516R/Z83516Z
	8x3.5x3.5	14	Red Oxide/Galvanized	C83514R/C83514Z	Z83514R/Z83514Z
	8x3.5x3.5	12	Red Oxide/Galvanized	C83512R/C83512Z	Z83512R/Z83512Z
	9x3x3	14	Red Oxide/Galvanized	C9314R/C9314Z	Z9314R/Z9314Z
	9x3x3	12	Red Oxide/Galvanized	C9312R/C9312Z	Z9312R/Z9312Z
	10x2.5x2.5	16	Red Oxide/Galvanized	C102516R/C102516Z	Z102516R/Z102516Z
	10x2.5x2.5	14	Red Oxide/Galvanized	C102514R/C102514Z	Z102514R/Z102514Z
	10x2.5x2.5	12	Red Oxide/Galvanized	C102512R/C102512Z	Z102512R/Z102512Z
	10x3.5x3.5	14	Red Oxide/Galvanized	C103514R/C103514Z	Z103514R/Z103514Z
	10x3.5x3.5	12	Red Oxide/Galvanized	C103512R/C103512Z	Z103512R/Z103512Z
	12x2.5x2.5	14	Red Oxide/Galvanized	C122514R/C122514Z	Z122514R/Z122514Z
	12x2.5x2.5	12	Red Oxide/Galvanized	C122512R/C122512Z	Z122512R/Z122512Z
	12x3.5x3.5	14	Red Oxide/Galvanized	C123514R/C123514Z	Z123514R/Z123514Z
	12x3.5x3.5	12	Red Oxide/Galvanized	C123512R/C123512Z	Z123512R/Z123512Z
	12x4x4	16	Red Oxide/Galvanized	C12416R/C12416Z	Z12416R/Z12416Z

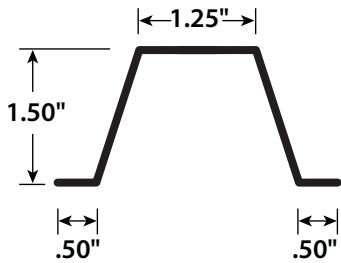
LGSI ZEES - Secondary Framing Members

	WEBxAxB	Gauge	Finish	Product Code
	6x2 ³ / ₈ x2 ¹ / ₈	16	Red Oxide/Galvanized	Z62516R/Z62516Z
	6x2 ³ / ₈ x2 ¹ / ₈	14	Red Oxide/Galvanized	Z62514R/Z62514Z
	8x2 ³ / ₈ x2 ¹ / ₈	16	Red Oxide/Galvanized	Z82516R/Z82516Z
	8x2 ³ / ₈ x2 ¹ / ₈	14	Red Oxide/Galvanized	Z82514R/Z82514Z
	8x2 ³ / ₈ x2 ¹ / ₈	12	Red Oxide/Galvanized	Z82512R/Z82512Z
	8x3 ³ / ₈ x3 ¹ / ₈	16	Red Oxide/Galvanized	Z83516R/Z83516Z
	8x3 ³ / ₈ x3 ¹ / ₈	14	Red Oxide/Galvanized	Z83514R/Z83514Z
	8x3 ³ / ₈ x3 ¹ / ₈	12	Red Oxide/Galvanized	Z83512R/Z83512Z
	10x2 ³ / ₈ x2 ¹ / ₈	16	Red Oxide/Galvanized	Z102516R/Z102516Z
	10x2 ³ / ₈ x2 ¹ / ₈	14	Red Oxide/Galvanized	Z102514R/Z102514Z
	10x2 ³ / ₈ x2 ¹ / ₈	12	Red Oxide/Galvanized	Z102512R/Z102512Z
	10x2 ⁷ / ₈ x2 ³ / ₈	14	Red Oxide/Galvanized	Z10314R/Z10314Z
	10x2 ⁷ / ₈ x2 ³ / ₈	12	Red Oxide	Z10312R
	12x2 ³ / ₈ x2 ¹ / ₈	14	Red Oxide/Galvanized	Z122514R/Z122514Z
	12x2 ³ / ₈ x2 ¹ / ₈	12	Red Oxide/Galvanized	Z122512R/Z122512Z
12x3 ³ / ₈ x3 ¹ / ₈	14	Red Oxide/Galvanized	Z123514R/Z123514Z	
12x3 ³ / ₈ x3 ¹ / ₈	12	Red Oxide/Galvanized	Z123512R/Z123512Z	
12x3 ³ / ₈ x3 ¹ / ₈	16	Red Oxide/Galvanized	Z12416R/Z12416Z	

Members can be manufactured to the nearest 1/8" in length from 6'0" to 45'0". For lengths under 6'0" or over 45'0", please call your sales rep.

SUB-STRUCTURAL STEEL

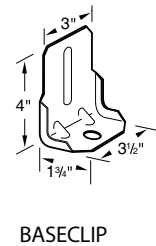
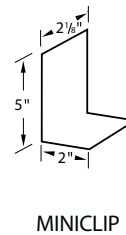
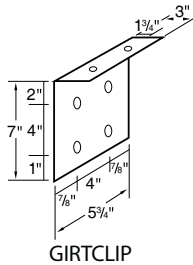
HAT CHANNEL



PART #	LENGTH	FINISH	GAUGE
HATZ202	20'2"	Galvanized	20
HATZ	Specify	Galvanized	20
HAT16Z	Specify	Galvanized	16

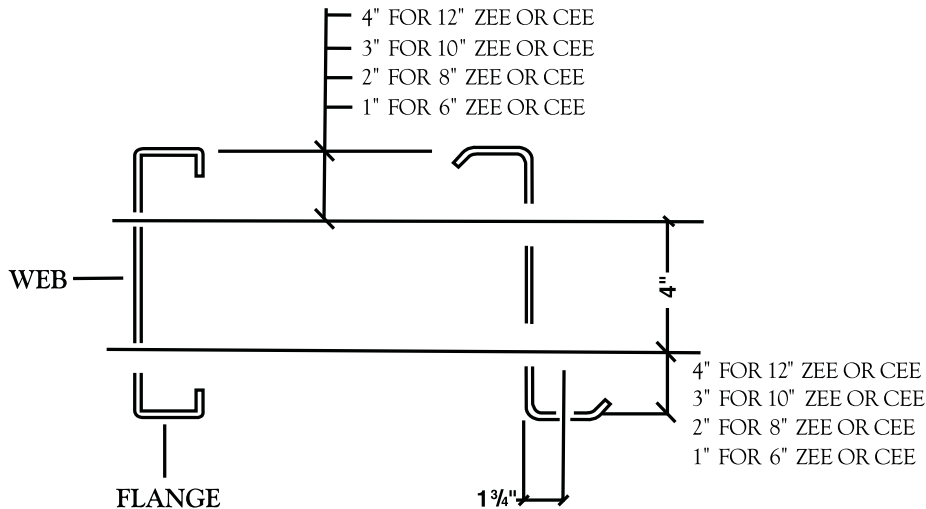
PURLIN CLIPS

Gauge	Finish	Product Code
10	Red Oxide	GIRTCLIP
16	Red Oxide	MINICLIP
14	Galvanized	BASECLIP



PUNCH PATTERNS

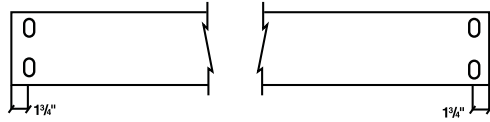
Capabilities vary by location. Call for pricing and availability on special punching. 3" Minimum part length to be punched. CSMI standard hole sizes are 5/8" round and 5/8"x 3/4" slot in Lowell and Cedar Hill. Standard hole size in Jasper is 5/8"x 3/4" slot. Holes are punched to accommodate 1/2" diameter bolts. 5/16" angle punch offered in Lowell and Jasper.



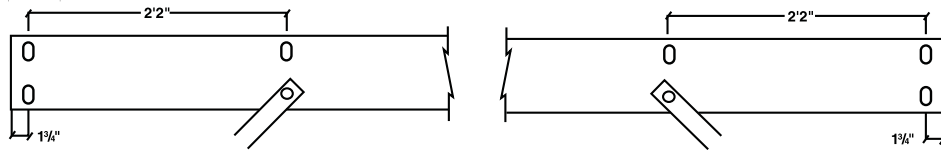
SUB-STRUCTURAL STEEL

STANDARD PUNCH PATTERNS CEES & ZEES

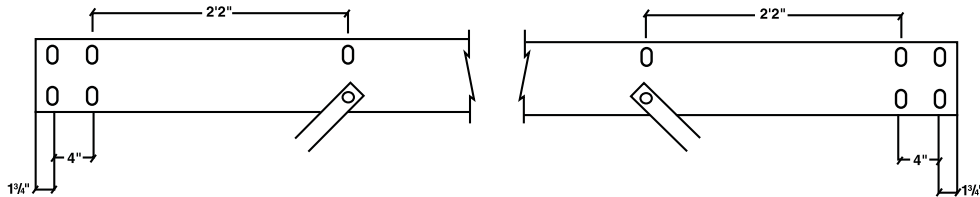
CODE: PPEP
END PUNCH



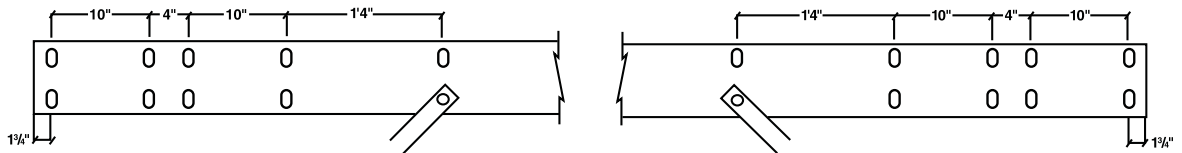
CODE: PPSS
SIMPLE SPAN PUNCH - MINIMUM PART LENGTH 5' TOTAL, 2'6" ONE END



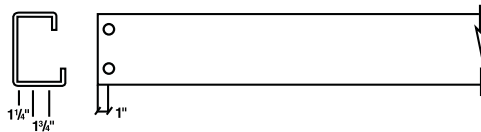
CODE: PPSL
SHORT LAP PUNCH - MINIMUM PART LENGTH 5'6" TOTAL, 2'8" ONE END



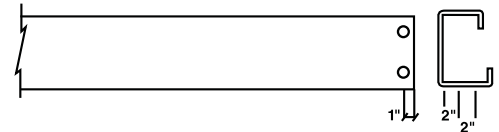
CODE: PPLL
LONG LAP PUNCH - MINIMUM PART LENGTH 7' TOTAL, 3'6" ONE END



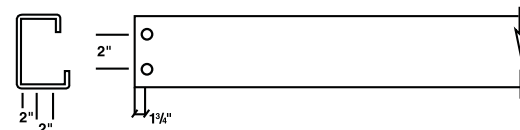
CODE: ES4
EAVE STRUT FOR 4" LEG



CODE: ES5
EAVE STRUT FOR 5" LEG



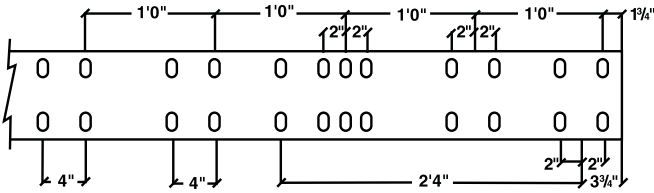
CODE: ES134
EAVE STRUT FOR 5" LEG



SUB-STRUCTURAL STEEL

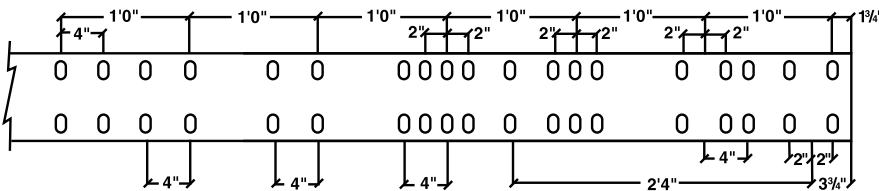
CODE: PPA

PATTERN A - STANDARD WEB - 9' MINIMUM LENGTH IF PUNCHED ON BOTH ENDS; 4'6" IF PUNCHED ON ONE END.



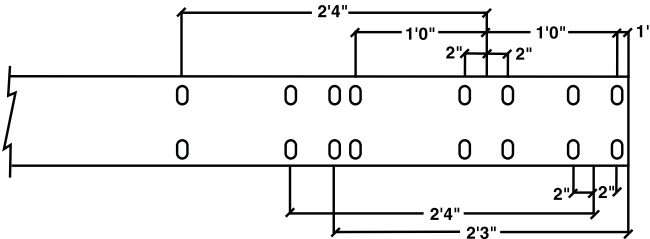
CODE: PPB

PATTERN B - STANDARD WEB - 12'5" MINIMUM LENGTH IF PUNCHED ON BOTH ENDS; 6'2.5" IF PUNCHED ON ONE END.



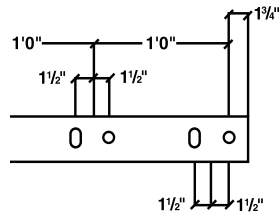
CODE: PPC

PATTERN C - STANDARD WEB - 7' MINIMUM LENGTH IF PUNCHED ON BOTH ENDS; 3'6" IF PUNCHED ON ONE END.



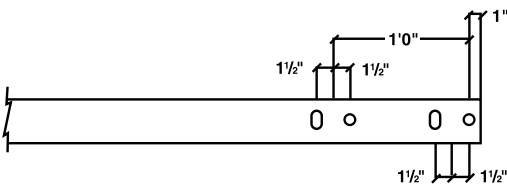
CODE: PPD & PPE

PATTERN D & E OPTIONAL FLANGE - PATTERN D FOR USE WITH PATTERN A; PATTERN E FOR USE WITH PATTERN B



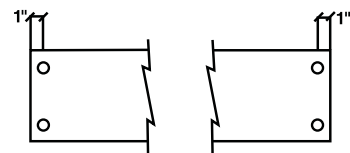
CODE: PPF

PATTERN F OPTIONAL FLANGE - PATTERN F FOR USE WITH PATTERN C



CODE: PPH

PATTERN H STANDARD WEB END





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