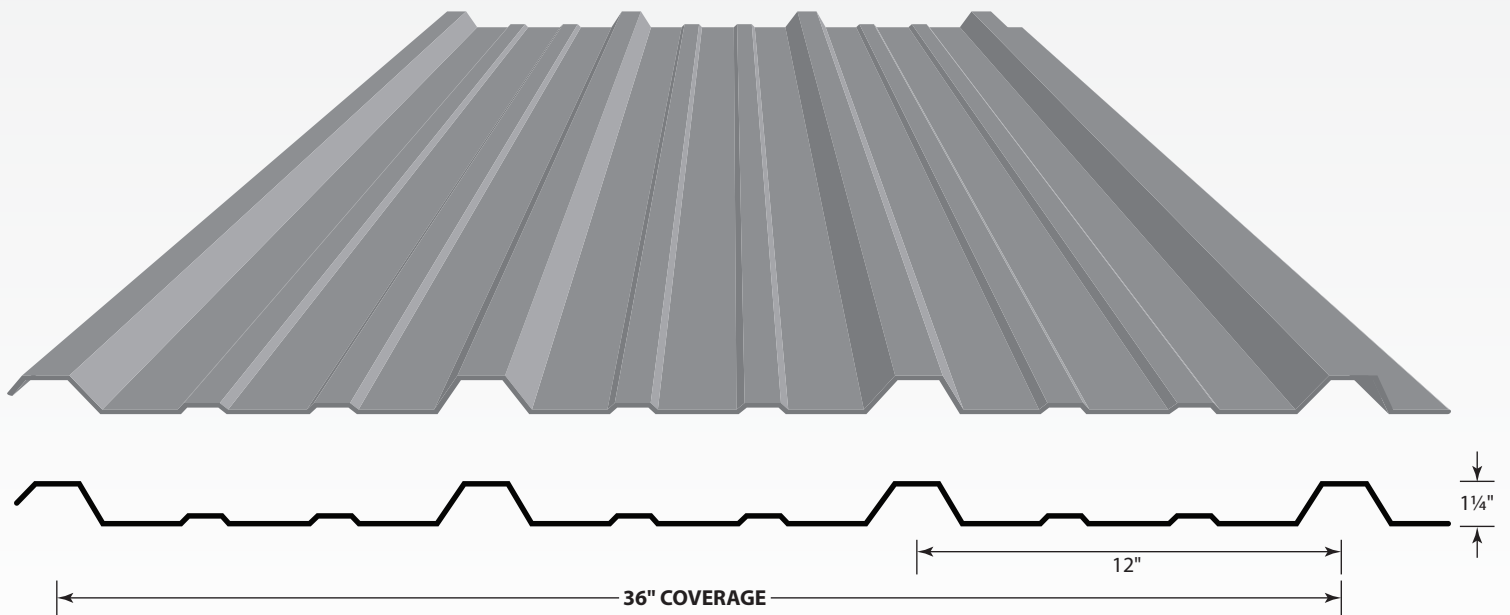


R-Loc™ Product Guide

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



***We promise to improve your business
by accurately providing quality products
right when you need them. Every time.***

Visit our website for more product information, testing, energy ratings, warranties, photo gallery, roofing visualizer, and more.

centralstatesco.com

INDEX

*Information in this 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 Prime 26 gauge with purlin bearing leg; in painted or bare Galvalume®. Prime panels feature CentralGuard® protection and a lifetime paint warranty. R-Loc is also available in limited colors of Thrifty 26 gauge, no purlin bearing leg, and a 20-year paint warranty.

CentralGuard is our specific combination of everything that goes into making the highest-quality metal panels. Choose CentralGuard for the perfect balance of fade protection, rust blocking, and dent resistance.

Bare (unpainted) Galvalume® panels from Central States have an acrylic coating which eliminates using oils during manufacturing and eliminates fingerprinting and foot marking during installation.

The 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 panel laps.



PANEL CODES

| PANEL PROFILE | TYPE | CODE |
|---------------|-------------|--------------|
| R-Loc™ | Prime SMP | RL6(color) |
| R-Loc™ | Thrifty SMP | RN6(color)TH |

WARRANTIES



WARRANTIES

Warranties are available in paper format and downloadable from our website. After the job is complete, fill out a warranty with your contractor/installer details and the Central States order number. Give the warranty to the building owner to keep for their records. Optional warranty registration is available online.

Learn more at centralstatesco.com/warranties

SECTION PROPERTIES

36" WIDE, R-LOC™ PANEL

| Gauge | Thickness (inches) | Weight (psf) | Yield Stress (ksi) | Top in Compression (Positive Bending) | | | Bottom in Compression (Negative Bending) | | |
|-------|--------------------|--------------|--------------------|---------------------------------------|--------|------------|--|--------|------------|
| | | | | Ixx | Sxx | Ma | Ixx | Sxx | Ma |
| | | | | in4/ft | in3/ft | in.kips/ft | in4/ft | in3/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 |

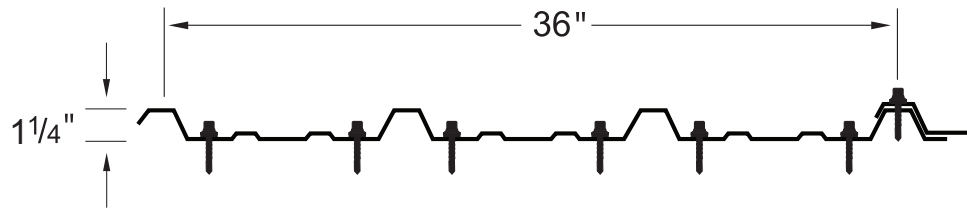
THREE OR MORE SPAN CONDITION

| 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 |

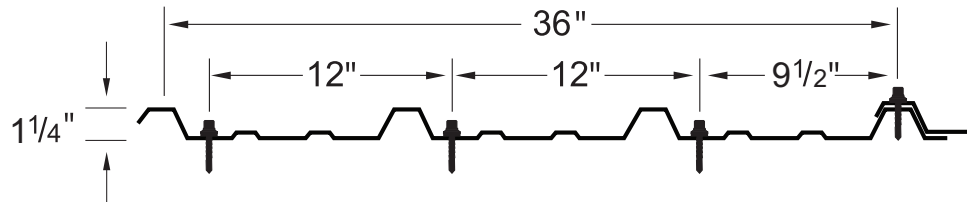
Theoretical allowable loads are based on uniform span lengths. LL (S) is allowable live load based on stress limitation. LL (D) is allowable live load based on deflection limitation of L/180 or L/240. WL is allowable wind load and has been increased by 33.33%.

FASTENER SPACING

Fastener pattern at panel termination (Eave, endlap, valley, ridge, high eave)



Fastener pattern at interior of panel



CARE AND HANDLING

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 equipment available to unload the truck. Moffett deliveries require at least one person to assist with unloading.

STAGE

Galvalume® steel panels 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 panels are subject to stain when water sits upon, or becomes trapped between the sheets. If the Galvalume® panels 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.

CARE AND HANDLING

STORAGE

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.

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

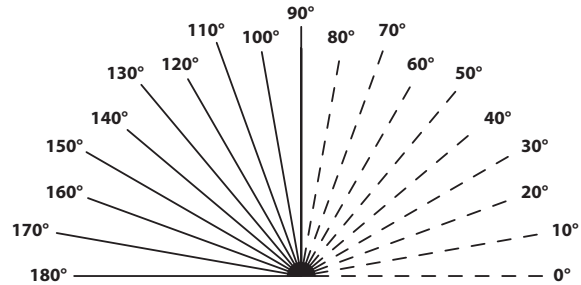
Panels and trim should not be drilled while stacked. This will cause shavings that will become imbedded in the paint surface.

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



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

| 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 |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|
| 94° | 99° | 104° | 108° | 112° | 116° | 120° | 123° | 126° | 129° | 132° | 135° |
| 173° | 167° | 160° | 154° | 148° | 143° | 138° | 134° | 130° | 126° | 123° | 120° |
| 170° | 161° | 152° | 143° | 135° | 127° | 120° | 113° | 106° | 100° | 95° | 90° |

DOUBLE SLOPE PITCHES

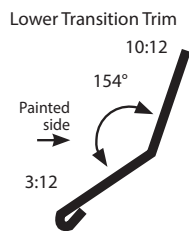
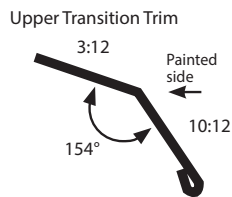
Hip, Valley

RIDGE CAP

TRANSITION TRIM

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

If the intersection lands in the gray area, select a 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'

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" |

HOW TO ORDER TRIM

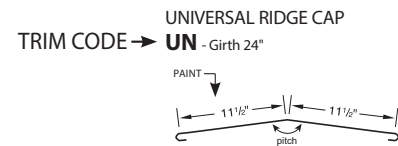
STEP 1:

In CentralLink™, start by entering the Item ID.

Item ID is made of the **TRIM CODE**, a **GAUGE CODE**, and a **COLOR CODE**.

The TRIM CODE can be found with each drawing next to the trim's name.

The GAUGE CODE and COLOR CODES are found below.



EXAMPLE: *Universal Ridge Cap, 26 gauge, Rustic*

UN **6** **RR**
TRIM CODE GAUGE CODE COLOR CODE

Enter Item ID

Description: 26, Rustic, Universal Ridge Cap

Pieces **Feet** **Inches**

STEP 2:

Then type the number of pieces you need along with the length in feet and inches.

CentralLink order screen

GAUGE CODES

| GAUGE | CODE |
|-------|------|
| 26 | 6 |
| 29 | 9 |

COLOR CODES

| SMP | PANEL GAUGE | TRIM GAUGE | CODE |
|-------------------|-------------|------------|------|
| Alamo | | 29 | AW |
| Black | | 29 | BK |
| Brilliant | 26 | 29/26 | BI |
| Brown | 26 | 29/26 | BR |
| Burgundy | 26 | 29/26 | BG |
| Burnished Slate | 26 | 29/26 | BS |
| Charcoal | 26 | 29/26 | CH |
| Colony | 26 | 26 | CG |
| Copper Metallic** | 26 | 29/26 | CM |
| Crimson | 26 | 29/26 | CR |
| Desert | 26 | 26 | DS |
| Forest | | 29/26 | DG |
| Fern | 26 | 26 | FN |
| Gallery | 26 | 29/26 | GB |
| Galvalume® | 26 | 29/26 | GL |
| Galvanized | | 29 | ZN |
| Gray | 26 | 29/26 | GA |
| Hawaiian | 26 | 26 | HB |
| Hunter | 26 | 29/26 | GR |
| Ivory | | 29 | IV |
| Light Stone | 26 | 29/26 | LS |
| Ocean | | 29 | OB |
| Pewter | | 29 | PG |
| Polar | 26 | 26 | PW |
| Rustic | 26 | 29/26 | RR |
| Tan | 26 | 29/26 | TN |
| Taupe | | 29/26 | TA |

* Longer lead times may apply. ** Copper Metallic is FEVE
 FEVE = Fluorinated Polymer Paint System.
 Galvalume® is a registered trademark of BIEC International, Inc.

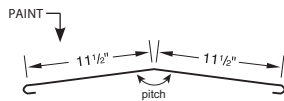
ROOF TRIMS

Unless otherwise noted all angles are 90° or 45°. See page 10 for gauge and color codes.

RIDGE CAP - Specify pitch.

UNIVERSAL RIDGE CAP

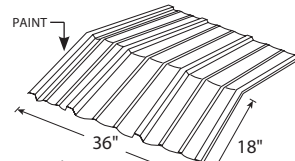
UN - Girth 24"



Additional pallet charge may apply.

FORMED RIDGE CAP

RLFRC36 - Length 3'



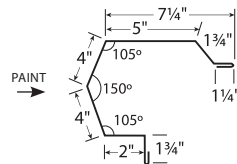
26 ga. only.

Specify pitch up to 4:12. Longer lead times may apply.

RAKE/GABLE

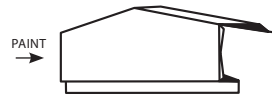
RAKE

RA - Girth 20.75"



RAKE PEAK BOX

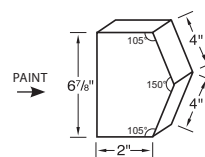
PBOXF



Specify pitch.

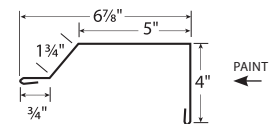
RAKE END CAP

REND - Left hand shown.



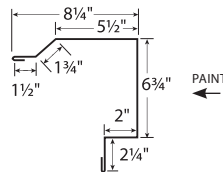
HOUSE RAKE

HR - Girth 12.5"



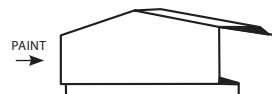
BOX RAKE

BRT - Girth 20.75"



BOX RAKE PEAK BOX

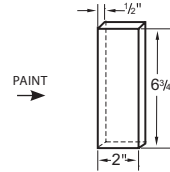
PBBF



Specify pitch.

BOX RAKE END CAP

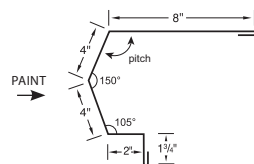
BREND - Left hand shown.



EAVE - Specify pitch.

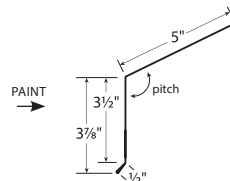
HIGH-SIDE EAVE

HI - Girth 20.75"



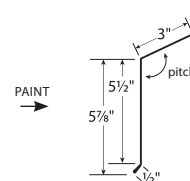
SHORT EAVE

SEA - Girth 9.5"



LONG EAVE

LEA - Girth 9.5"

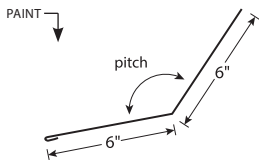


ROOF TRIMS

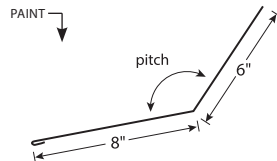
Unless otherwise noted all angles are 90° or 45°. See page 10 for gauge and color codes.

TRANSITION TRIMS - Specify pitch.

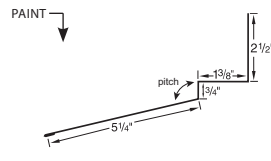
TRANSITION
TT - Girth 12.5"



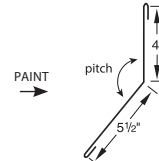
TRANSITION
GTL2 - Girth 14.5"



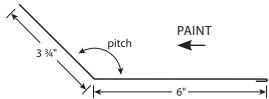
TIE-IN
TI - Girth 10.375"



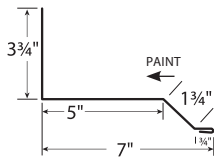
HIGH SIDE PARAPET
HSP - Girth 10.5"



ENDWALL
EW - Girth 10.25"

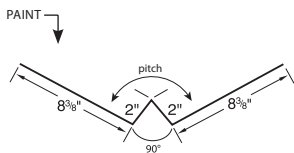


SIDEWALL
ST - Girth 11.75"



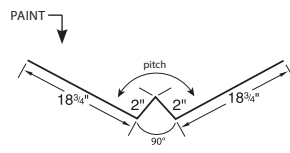
VALLEY - Specify pitch.

COMMERCIAL VALLEY
VA - Girth 20.75"



*Intended for valley lengths less than 30'.
Additional pallet charge will apply.*

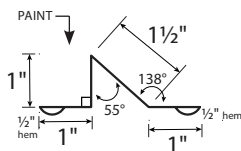
EXTENDED VALLEY
EVA - Girth 41.5"



*Intended for valley lengths greater than 30'.
Additional pallet charge will apply.*

MISC. TRIMS

SNOW GUARD
SG1 - Girth 5.5"



Available in 10'2" only.

FLAT SHEET
FS6 - 26 gauge. Girth 41.5625"



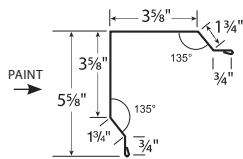
*10 sheets or fewer will be packaged in a roll.
Additional pallet charge on orders of 10 or more.*

WALL TRIMS

Unless otherwise noted all angles are 90° or 45°. See page 10 for gauge and color codes.

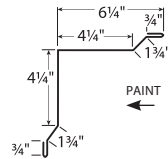
OUTSIDE CORNER

OU - Girth 13.25"



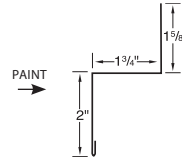
INSIDE CORNER

IN - Girth 14.5"



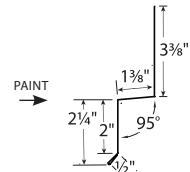
ZEE TRIM

ZE - Girth 5.875"



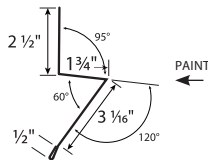
WAINSCOT

WA - Girth 7.75"



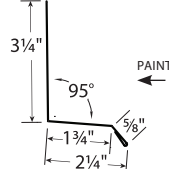
COMMERCIAL RAT GUARD

RGC - Girth 8.3125"



BASE TRIM

BA - Girth 6.125"



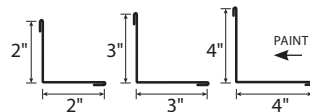
ANGLE TRIMS

INSIDE ANGLE

IA2X2 - Girth 5"

IA3X3 - Girth 7"

IA4X4 - Girth 9"

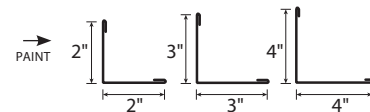


OUTSIDE ANGLE

SA2X2 - Girth 5"

SA3X3 - Girth 7"

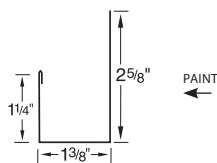
SA4X4 - Girth 9"



FRAMED OPENING TRIMS

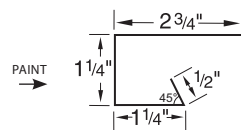
HEAD TRIM

HE - Girth 5.75"



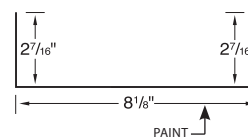
JAMB

JA - Girth 5.75"

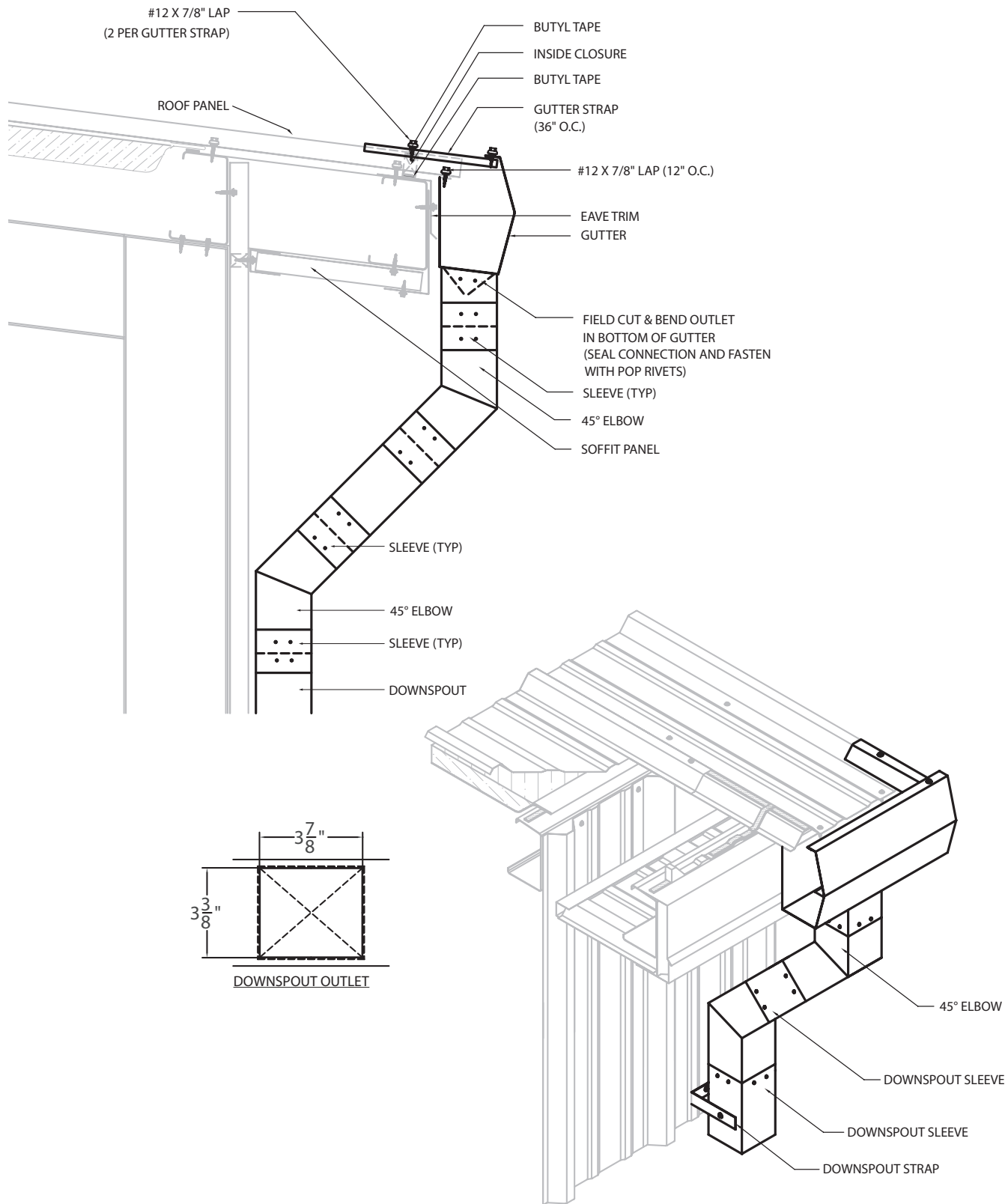


JAMB HEADER

JH - Girth 13"



GUTTERS



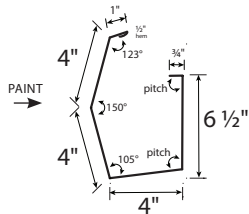
GUTTERS

Unless otherwise noted all angles are 90° or 45°. See page 10 for gauge and color codes.

SCULPTURED GUTTERS

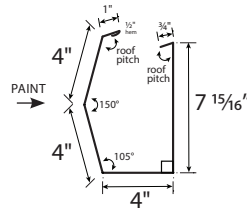
HANG-ON 0-4:12 PITCH

RLGU - Girth 20.75"



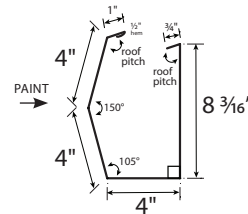
HANG-ON 5:12 PITCH

RLGU5 - Girth 22.1875"



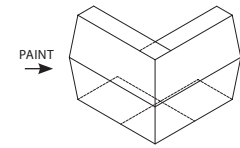
HANG-ON 6:12 PITCH

RLGU6 - Girth 22.4375"



OUTSIDE CORNER BOX

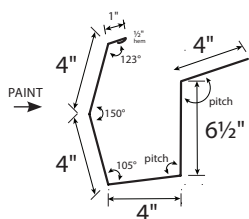
OCB - Specify pitch.



Use with sculptured gutters.

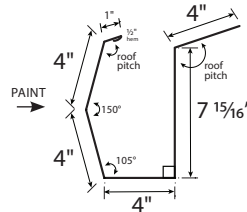
EAVE 0-4:12 PITCH

RLSGU - Girth 24"



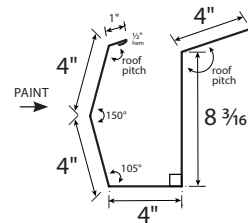
EAVE 5:12 PITCH

RLSGU5 - Girth 25.4375"



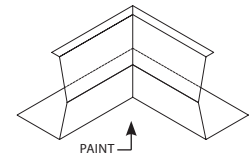
EAVE 6:12 PITCH

RLSGU6 - Girth 25.6875"



INSIDE CORNER BOX

ICB - Girth 25.6875"

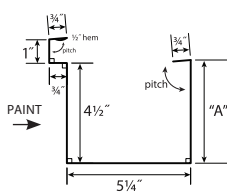


Use with sculptured gutters.

BOX GUTTERS

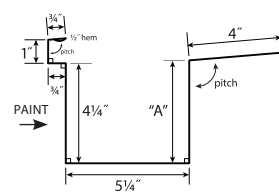
- Dimension "A" will change depending on chosen pitch.

HANG-ON



| PART # | PITCH | GIRTH | DIM. "A" |
|---------------|-------|----------|----------|
| RLBHG1 | 1:12 | 17.625" | 4.375" |
| RLBHG2 | 2:12 | 18.125" | 4.875" |
| RLBHG3 | 3:12 | 18.5625" | 5.3125" |
| RLBHG4 | 4:12 | 19.063" | 5.8125" |
| RLBHG5 | 5:12 | 19.5" | 6.25" |
| RLBHG6 | 6:12 | 20" | 6.75" |

BOX EAVE



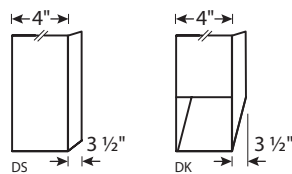
| PART # | PITCH | GIRTH | DIM. "A" |
|---------------|-------|---------|----------|
| RLBEG1 | 1:12 | 20.875" | 4.375" |
| RLBEG2 | 2:12 | 21.375" | 4.875" |
| RLBEG3 | 3:12 | 21.813" | 5.3125" |
| RLBEG4 | 4:12 | 22.313" | 5.8125" |
| RLBEG5 | 5:12 | 22.75" | 6.25" |
| RLBEG6 | 6:12 | 23.25" | 6.75" |

DOWNSPOUTS

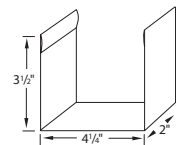
DOWNSPOUT- Length 16"

DS - straight

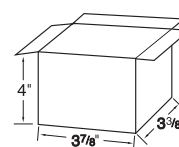
DK - with kickout



DOWNSPOUT STRAP
DSS

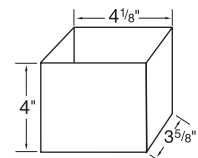


DOWNSPOUT OUTLET
DSOUTLET



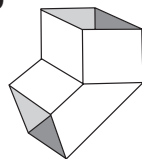
Specify pitch. 1/2" turndowns.

DOWNSPOUT CONNECTOR
DSLVE



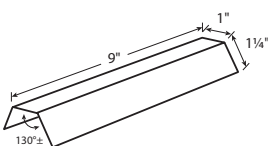
DOWNSPOUT ELBOW

DSE45
DSE90



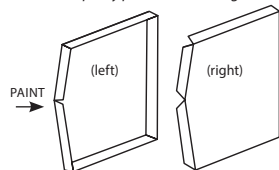
GUTTER STRAP

RLGS96



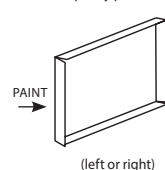
SCULPTURED GUTTER END CAP

GEN - Specify pitch and left or right.



BOX GUTTER END CAP

BGEN - Specify pitch.



Left or right as you are on the ground looking at the gutter expanse from the eave.

ACCESSORIES

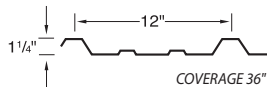
FASTENERS

Fastener color availability may vary by location, contact your sales consultant for details. Order fasteners in increments of 250 pieces.

| TYPE | PART # | LENGTH | DIAMETER | HEAD | COLOR | #BAG |
|---------------------|---------------------|--------|----------|-----------|------------|------|
| METAL/METAL | 114(color)MM | 1 1/4" | #12 | 5/16" Hex | all | 250 |
| METAL/METAL | 2ZMM | 2" | #12 | 5/16" Hex | galvanized | 250 |
| METAL/METAL LAP | 78(color)LAP | 7/8" | #14 | 5/16" Hex | all | 250 |
| ZAC METAL/METAL | 114ZACMM | 1 1/4" | #12 | 5/16" Hex | galvanized | 250 |
| ZAC METAL/METAL LAP | 78ZACLAP | 7/8" | #14 | 5/16" Hex | galvanized | 250 |

SKYLIGHTS

For best results, use approved sealant (MRS10SKY), Skylight Trim (SK) and washer (118WASHER). Skylights should be predrilled.



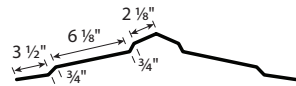
Clear Polycarbonate
RLSKYPCC12 - Length 12'.

White Polycarbonate
RLSKYPCW12 - Length 12'.



Skylight Sealant - Clear.
MRS10SKY - 10.3 oz. tube

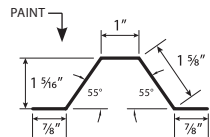
Approved for skylight use.



Skylight Ridge Cap - Universal
RCPC10 - Clear Polycarbonate
RCPCW10 - White Polycarbonate
Length 10'6". Width 25".



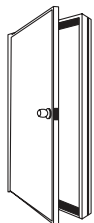
Skylight Washer - White.
118WASHER - 1/8" outside diameter, 1/4" inside diameter
100 per bag.



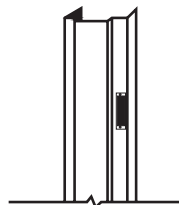
Skylight Trim
SK - Girth 6".

DOORS & FRAMING PACKAGE

- Longer lead times may apply.



DOOR LEAF - Steel door leaf only.
3070DOOR - 3' x 7'
3070DOORW/LITE - 3' x 7' with window.
4070DOOR - 4' x 7'

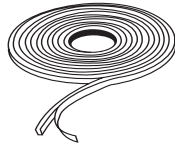


FRAMING PACKAGE - White.
4X3070JAMB - 4.25" x 3070
4X4070JAMB - 4.25" x 4070
6X3070JAMB - 6.25" x 3070
6X4070JAMB - 6.25" x 4070
8X3070JAMB - 8.25" x 3070
8X4070JAMB - 8.25" x 4070
8X6070JAMB - 8.25" x 6070

Package includes: Jamb, headers, threshold, door lever with keyed lock, hinges, and weather strip kit.
Frames are non-reversible. Swing-out only.

ACCESSORIES

BUTYL TAPE

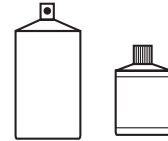


| PART # | LENGTH | WIDTH | THICKNESS | ROLLS PER BOX |
|---|--------|-------|-----------|---------------|
| BTL <i>Recommended for R-Loc.</i> | 45' | 3/4" | 3/32" | 24 |
| BTR | 40' | 7/8" | 3/16" | 10 |
| BT3/8 | 45' | 3/8" | 3/32" | 40 |

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

TOUCH UP PAINT

TP(color) - SMP, 0.6 oz. bottle w/brush.
12PURSP - Purlin paint. 12oz. spray.



SEALANT

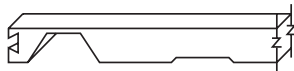


| PART # | SIZE | COLOR |
|---------------------|---------------|--------------------|
| GEO(color) | 10.3 oz. tube | clear, gray, white |
| MRS10(color) | 10.3 oz. tube | call for colors |
| MRS10CLEAR | 10.3 oz. tube | clear |

CLOSURES

OUTSIDE CLOSURE

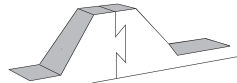
RLCLOUT - No Glue.
RLCLOUTGLUE - With Glue.



Length - 3'. 100 per box.

INSIDE CLOSURE

RLCLIN - No Glue.
RLCLINGLUE - With Glue.



Length - 3'. 100 per box.

CLOSURE VENT

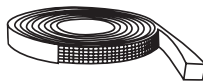
RLCLV



Closure is 1 3/8" tall and may require longer screws for installation. Item may vary from sample shown.
Length - 3'. 25 rolls per box.

GRAYFLEX

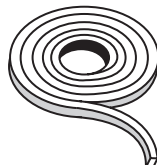
GRAYFLEX115 - 24-rolls per box.
For use with hips and valleys.



Length 13'. Width 1". Thickness 1 1/2".

UNIVERSAL POLYFOAM

POLYG - With Glue. 10-rolls per box.



Length 25'. Width 1 1/2". Thickness 1 1/2".

FLEXOVENT

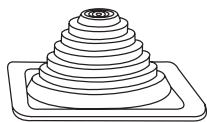
FLEXOVENT - (2) 10' rolls per box.



Length 10'. Width 3". Thickness 1 1/2".

MASTER PIPE FLASHING - Install in a diamond shape and not parallel to the rib.

Square - Max temperature 250°.



- MPF** - Pipe size .25" to 5.75"
- MPF2** - Pipe size .875" to 4"
- MPF4** - Pipe size 2.75" to 7"
- MPF6** - Pipe size 4.75" to 10"
- MPF8** - Pipe size 6.75" to 13.5"

Silicone - Orange, high temp max 500°.

- 4SMPF** - Pipe size 2.75" to 7"
- 6SMPF** - Pipe size 4.75" to 10"
- 8SMPF** - Pipe size 6.75" to 13.5"

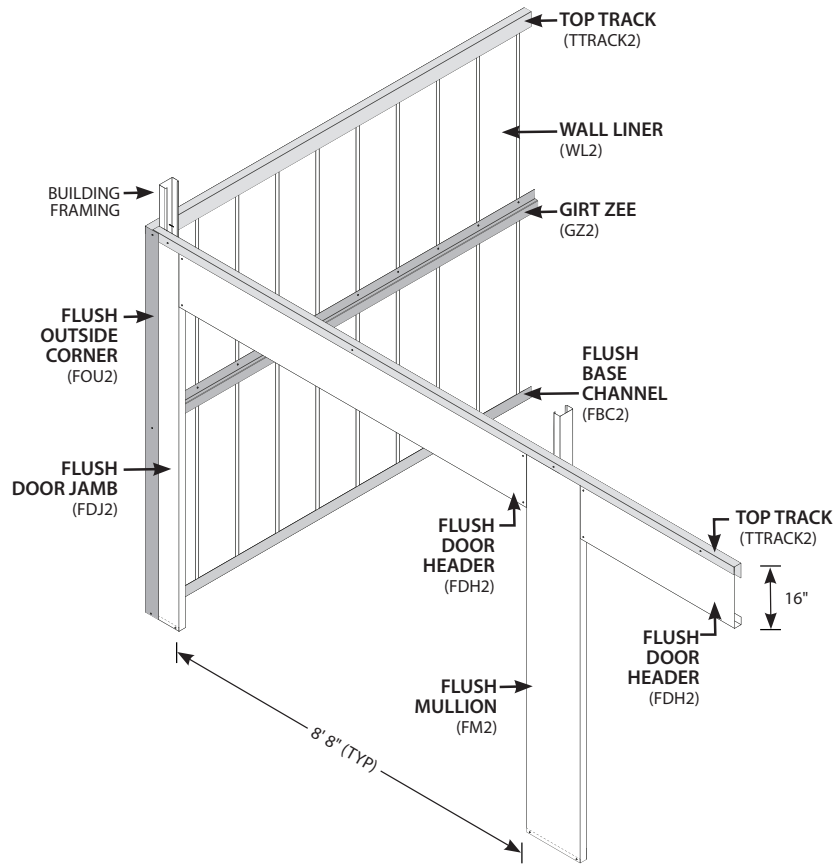
Square with zipper - Max temperature 250°.



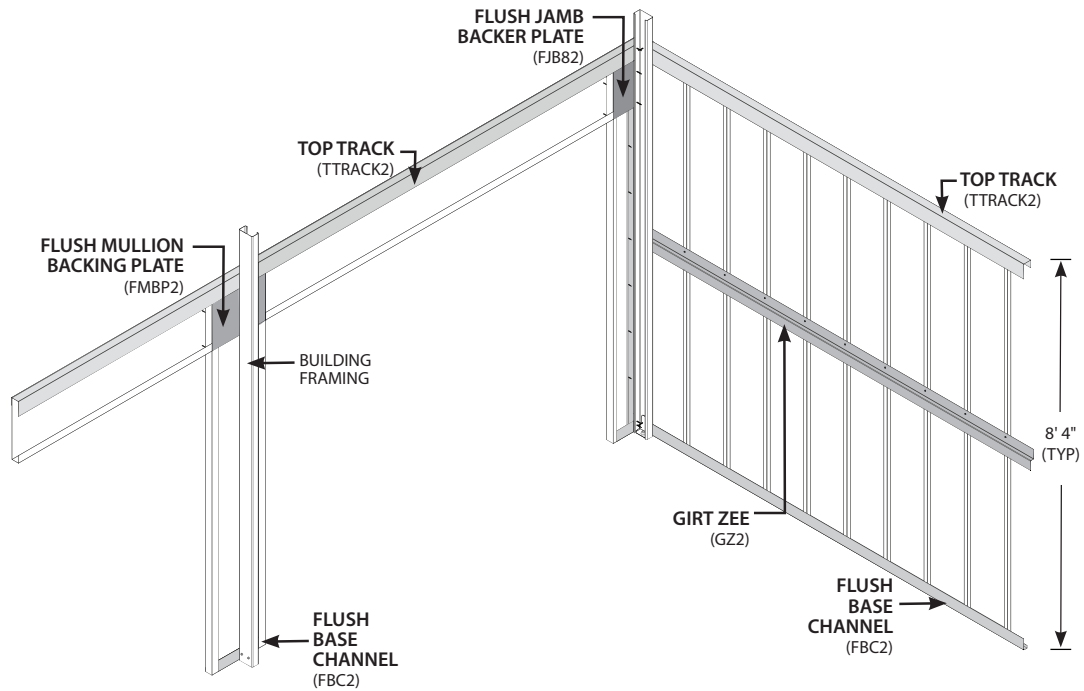
- MPF1ZIP** - Pipe size .5" - 4"
- MPF2ZIP** - Pipe size 4" - 9.25"

SELF-STORAGE INTERIOR HALLWAY

OUTSIDE VIEW



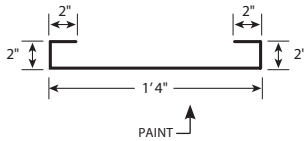
INSIDE VIEW



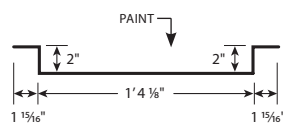
SELF-STORAGE INTERIOR HALLWAY

Unless otherwise noted, Pier and Header trims are 22 gauge, and all angles are 90°. Call for available colors and lead times.

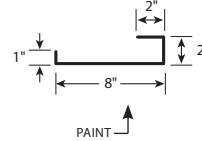
FLUSH MULLION
FM2 - Girth 24"



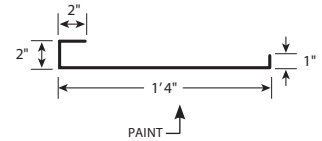
FLUSH MULLION BACKING PLATE
FMBP2 - Girth 24"



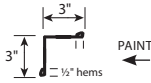
FLUSH DOOR JAMB
FDJ2 - Girth 13"



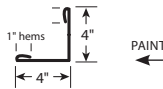
FLUSH DOOR HEADER
FDH2 - Girth 21"



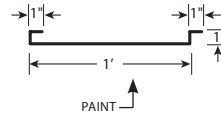
FLUSH INSIDE CORNER
FIN2 - Girth 7"



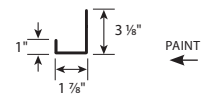
FLUSH OUTSIDE CORNER
FOU2 - Girth 10"



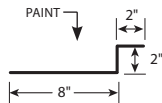
WALL LINER
FWL2 - Girth 16"



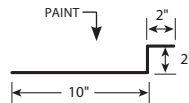
FLUSH BASE CHANNEL
FBC2 - Girth 6"



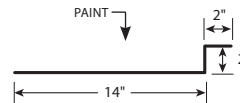
FLUSH JAMB BACKER PLATE 8"
FJB82 - Girth 12"



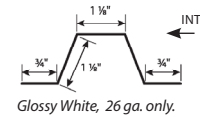
FLUSH JAMB BACKER PLATE 10"
FJB102 - Girth 14"



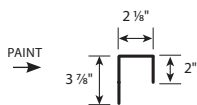
FLUSH JAMB BACKER PLATE 14"
FJB142 - Girth 18"



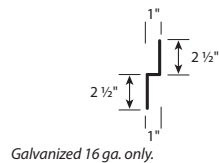
HAT CHANNEL TRIM BURGLAR BAR
HATT2GW - Girth 4.8750"



TOP TRACK
FTTRACK2 - Girth 8"

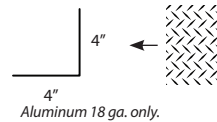


GIRT ZEE
FGZ16Z - Girth 6"



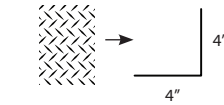
Galvanized 16 ga. only.

CHECKERED OUTSIDE CORNER
CKOUS8AL - Girth 8"



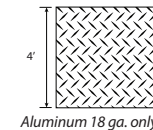
Aluminum 18 ga. only.

CHECKERED INSIDE CORNER
CKINS8AL - Girth 8"



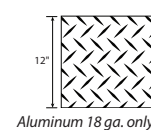
Aluminum 18 ga. only.

CHECKERED WAINSCOT PANEL
CKWP8AL - Girth 48"



Aluminum 18 ga. only.

CHECKERED BASE PLATE
CKBP8AL - Girth 12"



Aluminum 18 ga. only.

FASTENERS

| TYPE | PART # | LENGTH | DIAMETER | HEAD | COLOR | #BAG |
|-------------------------|-----------------------|--------|----------|-----------|-----------------|------|
| METAL/METAL (no washer) | 58(color)MMNW* | 5/8" | #10 | 5/16" Hex | ask for details | 250 |
| METAL/METAL (no washer) | 1ZMMNW | 1" | #12 | 5/16" Hex | galvanized | 250 |
| MASONRY ANCHOR | 11FASTENER | 1 1/4" | 1/4" | Mushroom | galvanized | 100 |

CENTRAL STATES MANUFACTURING, INC.
Effective 05/2023 • Information subject to change

*Longer lead times may apply.

SECONDARY FRAMING

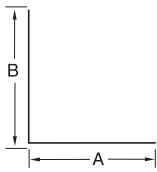
Members can be manufactured to the nearest 1/8" in length from 6'0" to 45'0". For lengths under 6'0" or over 45'0", call your sales consultant.



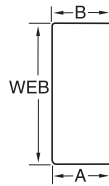
Central States has met the requirements to earn the accreditation for Cold-Formed Steel Structural and non-Structural Components Not Requiring Welding

For more information, go to www.iasonline.org.

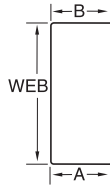
ANGLE



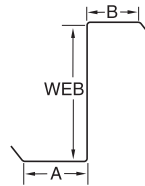
CHANNEL



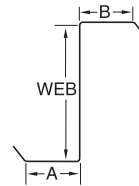
CEE



LCSI ZEE

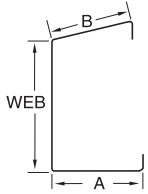


ZEE

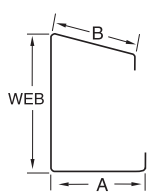


EAVE STRUTS

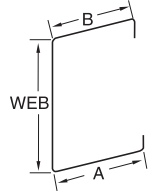
* Specify pitch and slope when ordering.
For low pitch (up to 4:12) add a "L" to the end of the code. For high pitch (5:12 and above) add a "H" to the end of the code.



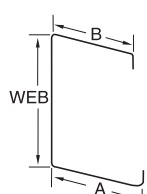
Single Slope Up



Single Slope Down

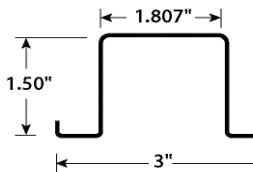


Double Slope Up



Double Slope Down

HAT CHANNEL



HS116R - Specify length, 20 gauge, Red Oxide.

HS116Z - Specify length, 16 gauge, galvanized.

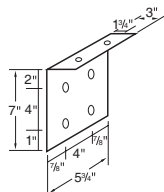
HAT20Z - Specify length, 20 gauge, galvanized.

PURLIN CLIPS

GIRT CLIP

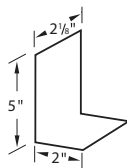
GIRTCLIP - 10 gauge.

GIRTCLIPZ - 10 gauge.



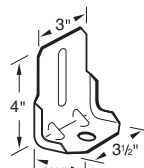
MINI CLIP

MINICLIP - 16 gauge.



BASE CLIP

BASECLIP - 14 gauge.



Galvanized.

SECONDARY FRAMING

| TYPE | A x B | GAUGE | ITEM CODE RED OXIDE | ITEM CODE GALVANIZED | TYPE | WEB x A x B | GAUGE | ITEM CODE RED OXIDE | ITEM CODE GALVANIZED |
|------------|----------------|-------|------------------------|-------------------------|----------|----------------|-------|------------------------|-------------------------|
| Angle | 2.5 x 2.5 | 14 | B2514R | | LGSI ZEE | 4 x 2½ x 2½ | 16 | Z42516R | Z42516Z |
| Angle | 3 x 3 | 16 | B316R | B316Z | LGSI ZEE | 6 x 2¾ x 2½ | 16 | Z62516R | Z62516Z |
| Angle | 3 x 3 | 14 | B314R | B314Z | LGSI ZEE | 6 x 2¾ x 2½ | 14 | Z62514R | Z62514Z |
| Angle | 4 x 2 | 16 | B4216R | B4216Z | LGSI ZEE | 8 x 2¾ x 2½ | 16 | Z82516R | Z82516Z |
| Angle | 4 x 2 | 14 | B4214R | B4214Z | LGSI ZEE | 8 x 2½ x 2½ | 14 | Z82514R | Z82514Z |
| Angle | 4 x 3 | 16 | B4316R | | LGSI ZEE | 8 x 2¾ x 2½ | 12 | Z82512R | Z82512Z |
| | | | | | LGSI ZEE | 8 x 3¾ x 3½ | 16 | Z83516R | Z83516Z |
| | | | | | LGSI ZEE | 8 x 3¾ x 3½ | 14 | Z83514R | Z83514Z |
| | | | | | LGSI ZEE | 8 x 3¾ x 3½ | 12 | Z83512R | Z83512Z |
| | | | | | LGSI ZEE | 10 x 2¾ x 2½ | 16 | Z102516R | Z102516Z |
| | | | | | LGSI ZEE | 10 x 2¾ x 2½ | 14 | Z102514R | Z102514Z |
| | | | | | LGSI ZEE | 10 x 2¾ x 2½ | 12 | Z102512R | Z102512Z |
| | | | | | LGSI ZEE | 10 x 2¾ x 2½ | 14 | Z10314R | Z10314Z |
| | | | | | LGSI ZEE | 10 x 2¾ x 2½ | 12 | Z10312R | |
| | | | | | LGSI ZEE | 12 x 2¾ x 2½ | 14 | Z122514R | Z122514Z |
| | | | | | LGSI ZEE | 12 x 2¾ x 2½ | 12 | Z122512R | Z122512Z |
| | | | | | LGSI ZEE | 12 x 3¾ x 3½ | 14 | Z123514R | Z123514Z |
| | | | | | LGSI ZEE | 12 x 3¾ x 3½ | 12 | Z123512R | Z123512Z |
| | | | | | LGSI ZEE | 12 x 3¾ x 3½ | 16 | Z12416R | Z12416Z |
| | | | | | | | | | |
| TYPE | WEB x A x B | GAUGE | RED OXIDE | GALVANIZED | TYPE | WEB x A x B | GAUGE | RED OXIDE | GALVANIZED |
| Eave Strut | 6 x 4 x 3 | 16 | E64316R* | E64316Z* | ZEE | 4 x 2 x 2 | 16 | Z4216R | Z4216Z |
| Eave Strut | 6 x 4 x 3 | 14 | E64314R* | E64314Z* | ZEE | 4 x 2.5 x 2.5 | 16 | Z42516R | Z42516Z |
| Eave Strut | 6 x 4 x 3 | 12 | E64312R* | E64312Z* | ZEE | 4 x 2.5 x 2.5 | 14 | Z42514R | Z42514Z |
| Eave Strut | 8 x 4 x 3 | 14 | E84314R* | E84314Z* | ZEE | 4 x 2.5 x 2.5 | 12 | Z42512R | Z42512Z |
| Eave Strut | 8 x 4 x 3 | 12 | E84312R* | E84312Z* | ZEE | 4 x 3.5 x 3.5 | 16 | Z43516R | Z43516Z |
| Eave Strut | 8 x 5 x 3 | 14 | E85314R* | E85314Z* | ZEE | 4 x 3.5 x 3.5 | 14 | Z43514R | Z43514Z |
| Eave Strut | 8 x 5 x 3 | 12 | E85312R* | E85312Z* | ZEE | 6 x 2.5 x 2.5 | 16 | Z62516R | Z62516Z |
| Eave Strut | 8 x 5 x 5 | 14 | E85514R* | | ZEE | 6 x 2.5 x 2.5 | 14 | Z62514R | Z62514Z |
| Eave Strut | 10 x 5 x 3 | 14 | E105314R* | | ZEE | 8 x 2.5 x 2.5 | 16 | Z82516R | Z82516Z |
| | | | | | ZEE | 8 x 2.5 x 2.5 | 14 | Z82514R | Z82514Z |
| | | | | | ZEE | 8 x 2.5 x 2.5 | 12 | Z82512R | Z82512Z |
| | | | | | ZEE | 8 x 3.5 x 3.5 | 16 | Z83516R | Z83516Z |
| | | | | | ZEE | 8 x 3.5 x 3.5 | 14 | Z83514R | Z83514Z |
| | | | | | ZEE | 8 x 3.5 x 3.5 | 12 | Z83512R | Z83512Z |
| | | | | | ZEE | 9 x 3 x 3 | 14 | Z9314R | Z9314Z |
| | | | | | ZEE | 9 x 3 x 3 | 12 | Z9312R | Z9312Z |
| | | | | | ZEE | 10 x 2.5 x 2.5 | 16 | Z102516R | Z102516Z |
| | | | | | ZEE | 10 x 2.5 x 2.5 | 14 | Z102514R | Z102514Z |
| | | | | | ZEE | 10 x 2.5 x 2.5 | 12 | Z102512R | Z102512Z |
| | | | | | ZEE | 10 x 3.5 x 3.5 | 14 | Z103514R | Z103514Z |
| | | | | | ZEE | 10 x 3.5 x 3.5 | 12 | Z103512R | Z103512Z |
| | | | | | ZEE | 12 x 2.5 x 2.5 | 14 | Z122514R | Z122514Z |
| | | | | | ZEE | 12 x 2.5 x 2.5 | 12 | Z122512R | Z122512Z |
| | | | | | ZEE | 12 x 3.5 x 3.5 | 14 | Z123514R | Z123514Z |
| | | | | | ZEE | 12 x 3.5 x 3.5 | 12 | Z123512R | Z123512Z |
| | | | | | ZEE | 12 x 3.5 x 3.5 | 16 | Z12416R | Z12416Z |
| | | | | | | | | | |
| TYPE | WEB x A x B | GAUGE | RED OXIDE | GALVANIZED | | | | | |
| CEE | 4 x 2 x 2 | 16 | C4216R | C4216Z | | | | | |
| CEE | 4 x 2.5 x 2.5 | 16 | C42516R | C42516Z | | | | | |
| CEE | 4 x 2.5 x 2.5 | 14 | C42514R | C42514Z | | | | | |
| CEE | 4 x 2.5 x 2.5 | 12 | C42512R | C42512Z | | | | | |
| CEE | 4 x 3.5 x 3.5 | 16 | C43516R | C43516Z | | | | | |
| CEE | 4 x 3.5 x 3.5 | 14 | C43514R | C43514Z | | | | | |
| CEE | 6 x 2.5 x 2.5 | 16 | C62516R | C62516Z | | | | | |
| CEE | 6 x 2.5 x 2.5 | 14 | C62514R | C62514Z | | | | | |
| CEE | 8 x 2.5 x 2.5 | 16 | C82516R | C82516Z | | | | | |
| CEE | 8 x 2.5 x 2.5 | 14 | C82514R | C82514Z | | | | | |
| CEE | 8 x 2.5 x 2.5 | 12 | C82512R | C82512Z | | | | | |
| CEE | 8 x 3.5 x 3.5 | 16 | C83516R | C83516Z | | | | | |
| CEE | 8 x 3.5 x 3.5 | 14 | C83514R | C83514Z | | | | | |
| CEE | 8 x 3.5 x 3.5 | 12 | C83512R | C83512Z | | | | | |
| CEE | 9 x 3 x 3 | 14 | C9314R | C9314Z | | | | | |
| CEE | 9 x 3 x 3 | 12 | C9312R | C9312Z | | | | | |
| CEE | 10 x 2.5 x 2.5 | 16 | C102516R | C102516Z | | | | | |
| CEE | 10 x 2.5 x 2.5 | 14 | C102514R | C102514Z | | | | | |
| CEE | 10 x 2.5 x 2.5 | 12 | C102512R | C102512Z | | | | | |
| CEE | 10 x 3.5 x 3.5 | 14 | C103514R | C103514Z | | | | | |
| CEE | 10 x 3.5 x 3.5 | 12 | C103512R | C103512Z | | | | | |
| CEE | 12 x 2.5 x 2.5 | 14 | C122514R | C122514Z | | | | | |
| CEE | 12 x 2.5 x 2.5 | 12 | C122512R | C122512Z | | | | | |
| CEE | 12 x 3.5 x 3.5 | 14 | C123514R | C123514Z | | | | | |
| CEE | 12 x 3.5 x 3.5 | 12 | C123512R | C123512Z | | | | | |
| CEE | 12 x 4 x 4 | 16 | C12416R | C12416Z | | | | | |

*For low pitch (up to 4:12) add a "L" to the end of the code.
 For high pitch (5:12 and above) add a "H" to the end of the code.

STANDARD PUNCH PATTERNS

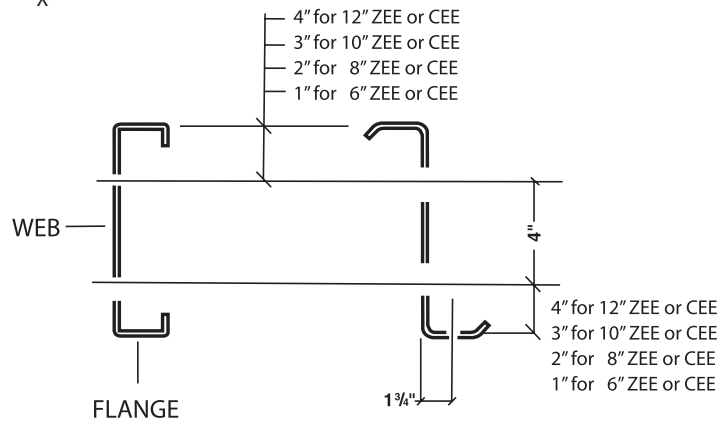
Punch capabilities vary by location. Call for pricing and availability on special punching.

Punches cannot be made on secondary framing members shorter than 3".

Holes are punched to accommodate 1/2" diameter bolts.

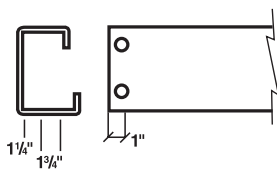
Standard hole sizes:

| LOCATION | 5/16" ROUND | 5/8" ROUND | 5/8" X 3/4" SLOT |
|------------|-------------|------------|------------------|
| Lowell | X | X | X |
| Jasper | X | | X |
| Cedar Hill | | X | X |
| Seguin | | X | X |
| Claysburg | | X | X |

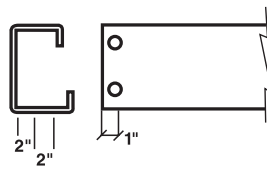


FLANGE PATTERNS - Punches can be placed on either or both ends.

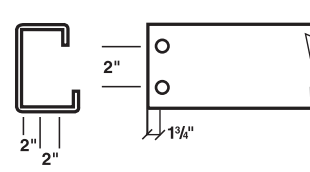
EAVE STRUT FOR 4" LEG
ES4



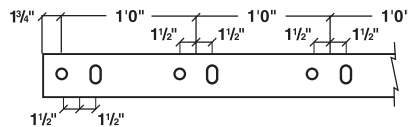
EAVE STRUT FOR 5" LEG
ES5



EAVE STRUT FOR 5" LEG
ES134

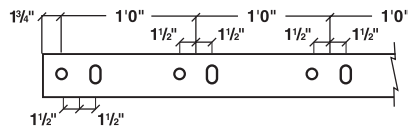


PATTERN D - OPTIONAL FLANGE
PPD



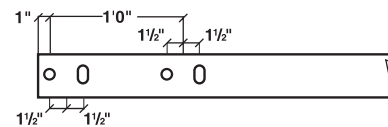
Use with web pattern A.

PATTERN E - OPTIONAL FLANGE
PPE



Use with web pattern B.

PATTERN F - OPTIONAL FLANGE
PPF

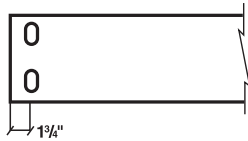


Use with web pattern C.

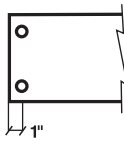
STANDARD PUNCH PATTERNS

WEB PATTERNS - Punches can be placed on either or both ends.

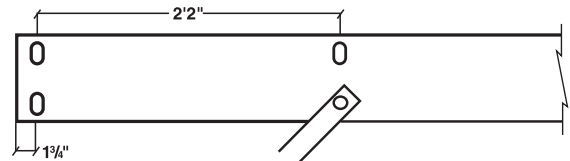
**END PUNCH
PPEP**



**PATTERN H STANDARD WEB END
PPH**

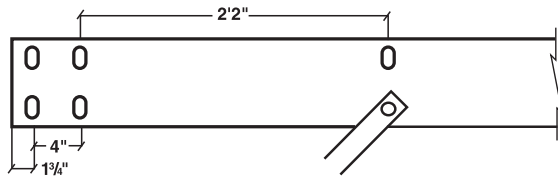


**SIMPLE SPAN PUNCH
PPSS**



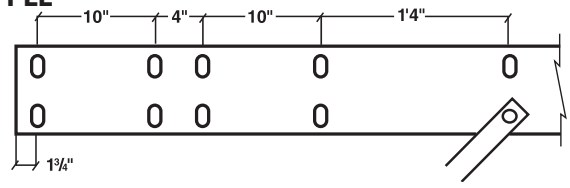
Minimum part length 5' total, 2'6" one end.

**SHORT LAP PUNCH
PPSL**



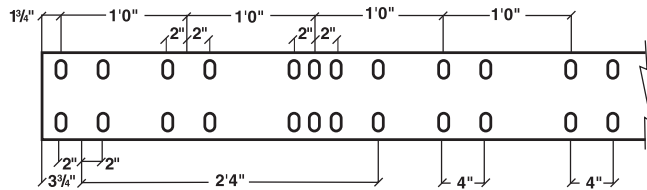
Minimum part length 5'6" total, 2'8" one end.

**LONG LAP PUNCH
PPLL**

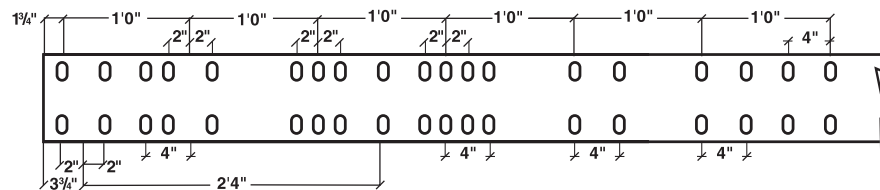


Minimum part length 7' total, 3'6" one end.

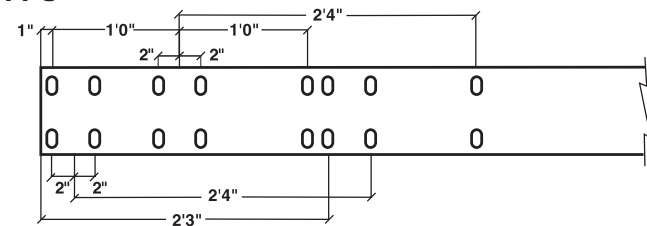
**PATTERN A - STANDARD WEB - 9' Minimum length if punched on both ends; 4'6" if punched on one end.
PPA**



**PATTERN B - STANDARD WEB - 12'5" Minimum length if punched on both ends; 6'2.5" if punched on one end.
PPB**



**PATTERN C - STANDARD WEB - 7' Minimum length if punched on both ends; 3'6" if punched on one end.
PPC**





Right.
On Time.
Every Time.®

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