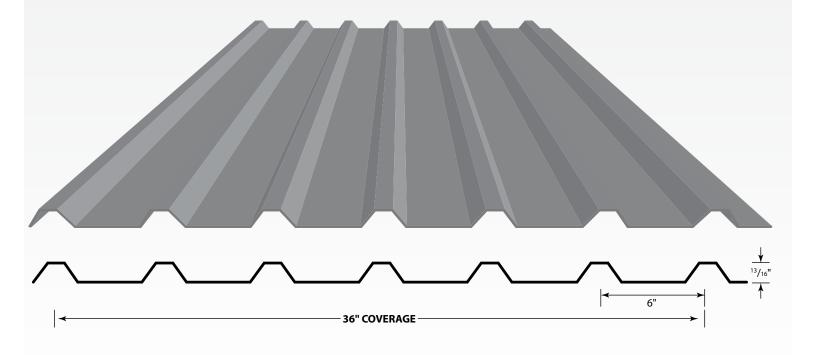


HELPFUL INFORMATION ON PANELS, TRIMS, GUTTERS AND ACCESSORIES





## 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.

### centralstatesmfg.com

#### Information in this catalog may vary by plant location. Please call your salesperson to verify product availability.

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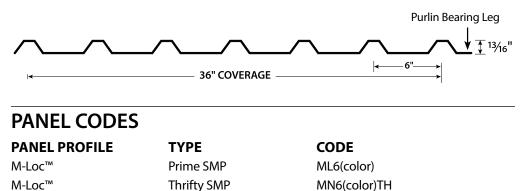
NOTICE: The application and detail drawings in this manual are strictly for illustration purposes and may not be applicable to all building designs or product installations. Projects should conform to local building codes. Central States Manufacturing is not responsible for the performance of the material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

M-Loc is available in 26 ga. painted and bare Galvalume<sup>®</sup>. Prime panels come with CentralGuard<sup>®</sup> 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 M-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 <sup>13</sup>/<sub>6</sub>" M-Loc is a 1:12 pitch. This will allow for sufficient drainage of water. For added protection, a sealant tape can be used on the laps of the panel.



## 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 centralstatesmfg.com/warranties

# SECTION PROPERTIES

#### 36" WIDE, M-LOC™ PANEL

| Gauge | Thickness<br>(inches) | Weight<br>(psf) | Yield Stress<br>(ksi) | Top in Compression<br>(Positive Bending) |            |            |        |        |            |  |  |
|-------|-----------------------|-----------------|-----------------------|--|------------|------------|--------|--------|------------|--|--|
|       |                       |                 |                       | lxx                                      | lxx Sxx Ma |            |        | Sxx    | Ma         |  |  |
|       |                       |                 |                       | in4/ft                                   | in3/ft     | in.kips/ft | in4/ft | in3/ft | in.kips/ft |  |  |
| 26    | 0.0185                | 0.874           | 80.0                  | 0.0250                                   | 0.0441     | 1.5857     | 0.0170 | 0.0379 | 1.3617     |  |  |

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

|             |             | 26 Gauge & 80 ksi |                   |         |
|-------------|-------------|-------------------|-------------------|---------|
| Span (feet) | LL (S)(psf) | LL (D) L/180(psf) | LL (D) L/240(psf) | WL(psf) |
| 3           | 117.5       | 80.9              | 60.7              | 134.1   |
| 3.5         | 86.3        | 51.0              | 38.2              | 98.6    |
| 4           | 66.1        | 34.1              | 25.6              | 75.5    |
| 4.5         | 52.2        | 24.0              | 18.0              | 59.6    |
| 5           | 42.3        | 17.5              | 13.1              | 48.3    |
| 6           | 34.9        | 13.1              | 9.9               | 39.9    |
| 7           | 29.4        | 10.1              | 7.6               | 33.5    |
| 8           | 21.6        | 6.4               | 4.8               | 24.6    |

### TWO SPAN CONDITION

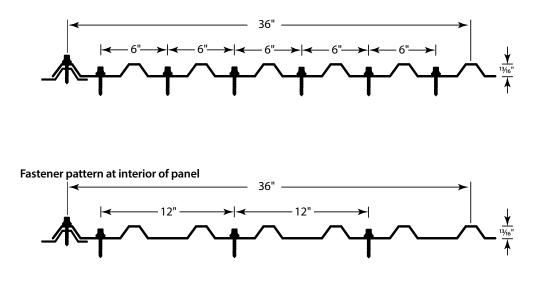
|             |             | 26 Gauge & 80 ksi |                   |         |
|-------------|-------------|-------------------|-------------------|---------|
| Span (feet) | LL (S)(psf) | LL (D) L/180(psf) | LL (D) L/240(psf) | WL(psf) |
| 3           | 100.9       | 100.9             | 79.0              | 156.2   |
| 3.5         | 74.1        | 66.4              | 49.8              | 114.8   |
| 4           | 56.7        | 44.5              | 33.3              | 87.9    |
| 4.5         | 44.8        | 31.2              | 23.4              | 69.4    |
| 5           | 36.3        | 22.8              | 17.1              | 56.2    |
| 6           | 30.0        | 17.1              | 12.8              | 46.5    |
| 7           | 25.2        | 13.2              | 9.9               | 39.1    |
| 8           | 18.5        | 8.3               | 6.2               | 28.7    |

### THREE OR MORE SPAN CONDITION

|             |             | 26 Gauge & 80 ksi |                   |         |
|-------------|-------------|-------------------|-------------------|---------|
| Span (feet) | LL (S)(psf) | LL (D) L/180(psf) | LL (D) L/240(psf) | WL(psf) |
| 3           | 117.8       | 117.8             | 114.5             | 182.5   |
| 3.5         | 86.6        | 86.6              | 72.1              | 134.1   |
| 4           | 66.3        | 64.4              | 48.3              | 102.7   |
| 4.5         | 52.4        | 45.3              | 33.9              | 81.1    |
| 5           | 42.4        | 33.0              | 24.7              | 65.7    |
| 6           | 35.1        | 24.8              | 18.6              | 54.3    |
| 7           | 29.5        | 19.1              | 14.3              | 45.6    |
| 8           | 21.6        | 12.0              | 9.0               | 33.5    |

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)

## 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<sup>®</sup> 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 manufacturers 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

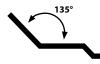
Panels and trim should not be drilled while stacked. This will cause shavings that will become imbedded in the paint surface.

> 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.



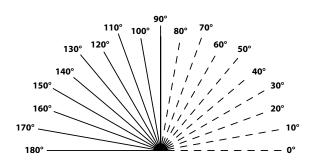


1:12 PITCH

1.12

2:12 PITCH

30°



| 1:12<br>РІТСН | 2:12<br>PITCH | 3:12<br>РІТСН | 4:12<br>PITCH | 5:12<br>PITCH | 6:12<br>РІТСН | 7:12<br>PITCH | 8:12<br>PITCH | 9:12<br>PITCH | 10:12<br>РІТСН | 11:12<br>РІТСН | 12:12<br>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°            |

7:12 8:12 PITCH PITCH

5:12 PITCH 6:12 PITCH

4:12 PITCH 3:12 PITCH

### SINGLE SLOPE PITCHES

Fascia, Eave, Endwall, Tie-In, Gutter

**DOUBLE SLOPE PITCHES** Hip, Valley

**RIDGE CAP** 

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

10:12 РІТСН

11:12 PITCH 12:12 PITCH

13:12 PITCH 14:12 PITCH 15:12 PITCH

16:12 РІТСН

17:12 PITCH 18:12 PITCH

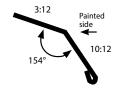
9:12 PITCH

| <b>TRANSITION TRIM</b>            |
|-----------------------------------|
| Find the box that intersects your |

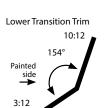
lower and upper roof pitches.

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

Upper Transition Trim



| (7        | 1:12<br>PITCH  |      | 175° | 171° | 166° | 162° | 158° | 155° | 151° | 148° | 145° | 142° | 140° | 137° | 135° | 133° | 132° | 130° | 128° |
|-----------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| OF RUN)   | 2:12<br>PITCH  | 175° |      | 175° | 171° | 167° | 163° | 159° | 156° | 153° | 150° | 147° | 144° | 142° | 140° | 138° | 136° | 135° | 133° |
| 12"       | 3:12<br>PITCH  | 171° | 175° |      | 176° | 171° | 167° | 164° | 160° | 157° | 154° | 152° | 149° | 147° | 145° | 143° | 141° | 139° | 138° |
| RISE OVER | 4:12<br>PITCH  | 166° | 171° | 176° |      | 176° | 172° | 168° | 165° | 162° | 159° | 156° | 153° | 151° | 149° | 147° | 145° | 144° | 142° |
| ΟF        | 5:12<br>PITCH  | 162° | 167° | 171° | 176° |      | 176° | 172° | 169° | 166° | 163° | 160° | 158° | 155° | 153° | 151° | 149° | 148° | 146° |
| (INCHES   | 6:12<br>PITCH  | 158° | 163° | 167° | 172° | 176° |      | 176° | 173° | 170° | 167° | 164° | 162° | 159° | 157° | 155° | 153° | 152° | 150° |
| PITCH     | 7:12<br>PITCH  | 155° | 159° | 164° | 168° | 172° | 176° |      | 177° | 173° | 170° | 168° | 165° | 163° | 161° | 159° | 157° | 155° | 154° |
| OF PI     | 8:12<br>PITCH  | 151° | 156° | 160° | 165° | 169° | 173° | 177° |      | 177° | 174° | 171° | 169° | 166° | 164° | 162° | 161° | 159° | 157° |
| r Roof    | 9:12<br>PITCH  | 148° | 153° | 157° | 162° | 166° | 170° | 173° | 177° |      | 177° | 174° | 172° | 170° | 167° | 166° | 164° | 162° | 161° |
| UPPER     | 10:12<br>PITCH | 145° | 150° | 154° | 159° | 163° | 167° | 170° | 174° | 177° |      | 177° | 175° | 173° | 170° | 168° | 167° | 165° | 163° |
|           | 11:12<br>PITCH | 142° | 147° | 152° | 156° | 160° | 164° | 168° | 171° | 174° | 177° |      | 178° | 175° | 173° | 171° | 169° | 168° | 166° |
|           | 12:12<br>PITCH | 140° | 144° | 149° | 153° | 158° | 162° | 165° | 169° | 172° | 175° | 178° |      | 178° | 176° | 174° | 172° | 170° | 169° |



# SQUARE CONVERSIONS

12 x 12

31.169

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 Panel width = 38.5" Panel length = 144" Square inches = 14,400 <u>38.5" x 144" x 12</u> equals 4.62 squares of metal 14,400

#### EXAMPLE 2:

### length in feet *multiplied by* # of pieces *divided by* 31.169

Number of panels = 12 Panel width = 38.5" Panel length = 12' equals 4.62 squares of metal

### 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"  |

CENTRAL STATES MANUFACTURING, INC. Effective 05/2021 · Information subject to change

## HOW TO ORDER TRIM

#### STEP 1:

In CentralLink<sup>™</sup>, 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 UNA TRIM CODE GAUGE CODE 

10

#### STEP 2:

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



UNIVERSAL RIDGE CAP

TRIM CODE - UN - Girth 24"

CentralLink order screen

| GAUGE | CODES |
|-------|-------|
|-------|-------|

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

### **COLOR CODES**

| SMP               | PANEL<br>GAUGE | TRIM<br>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   |
| lvory             |                | 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   |

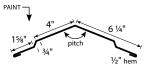
\* Longer lead times may apply. \*\* Copper Metallic is Fluropon®. Galvalume® is a registered trademark of BIEC International, Inc..

## **ROOF TRIMS**

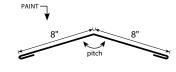
Unless otherwise noted all angles are 90° or 45°. See page 10 for gauge and color codes.

### RIDGE CAP - Specify pitch.

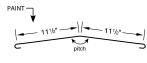
RIDGE CAP RCP - Girth 13.75"



RESIDENTIAL RIDGE CAP RRCP - Girth 17"



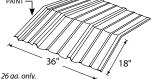
UNIVERSAL RIDGE CAP UN - Girth 24"



Additional pallet charge may apply.

#### FORMED RIDGE CAP MLFRC36 - Length 3'

AINT

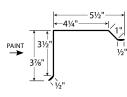


Specify pitch up to 5:12. Longer lead times may apply.

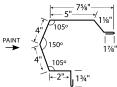
Additional pallet charge may apply. Recommended for 6:12 or less.

### **RAKE/GABLE**

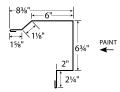
RESIDENTIAL RAKE **RRT** - Girth 10.75"



RAKE MLRA - Girth 20.75"

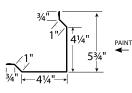


BOX RAKE MLBRT - Girth 20.75"



RAKE & CORNER **COR** - Girth 13"

Additional pallet charge may apply.



RAKE PEAK BOX MLPBOXF - 2'6"



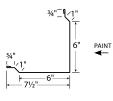
Specify pitch.

BOX RAKE PEAK BOX MLPBBF - 3'

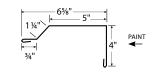


Specify pitch.

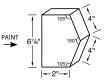
GABLE **GT6** - Girth 16.5"



HOUSE RAKE **MLHR** - Girth 12"



RAKE END CAP **REND** - Left hand shown.



BOX RAKE END CAP BREND - Left hand shown.

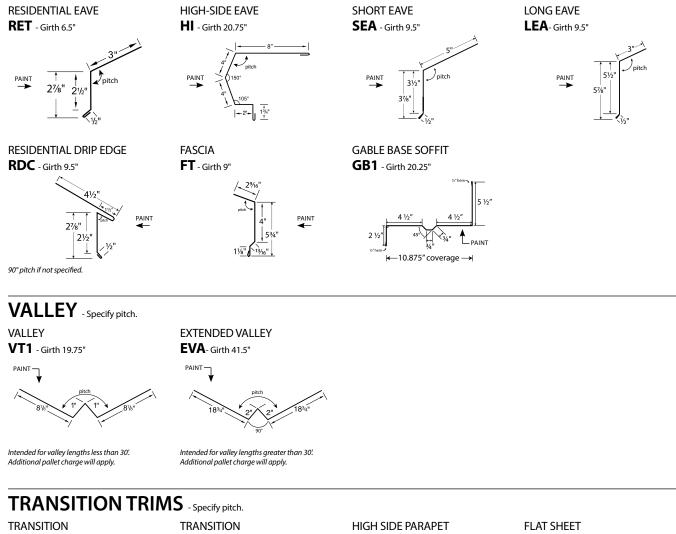


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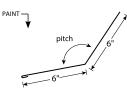
## **ROOF TRIMS**

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

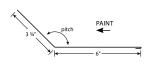
#### EAVE - Specify pitch.



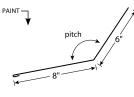
**TT** - Girth 12.5"



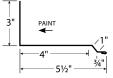
ENDWALL **EW** - Girth 10.25"



GTL2 - Girth 14.5"



UNIVERSAL SIDEWALL SF1 - Girth 9.25"



HSP - Girth 10.5"



FS9 - 29 gauge. Girth 43" **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.

J-TRIM







WINDOW DRIP CAP WC - Girth 3.75"

RAT GUARD

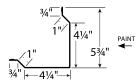
RG - Girth 4.75"



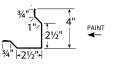
BASE ANGLE MLBA - Girth 5.375"

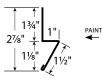


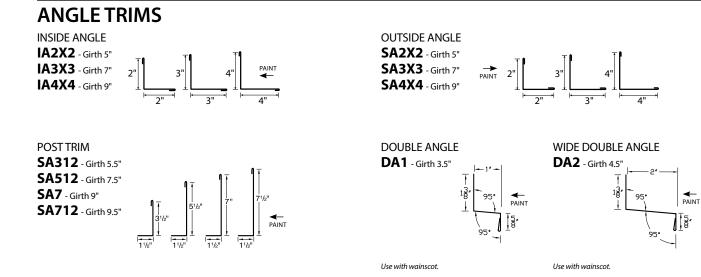
RAKE & CORNER **COR** - Girth 13"



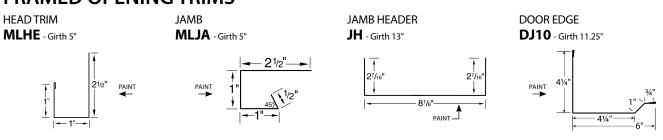




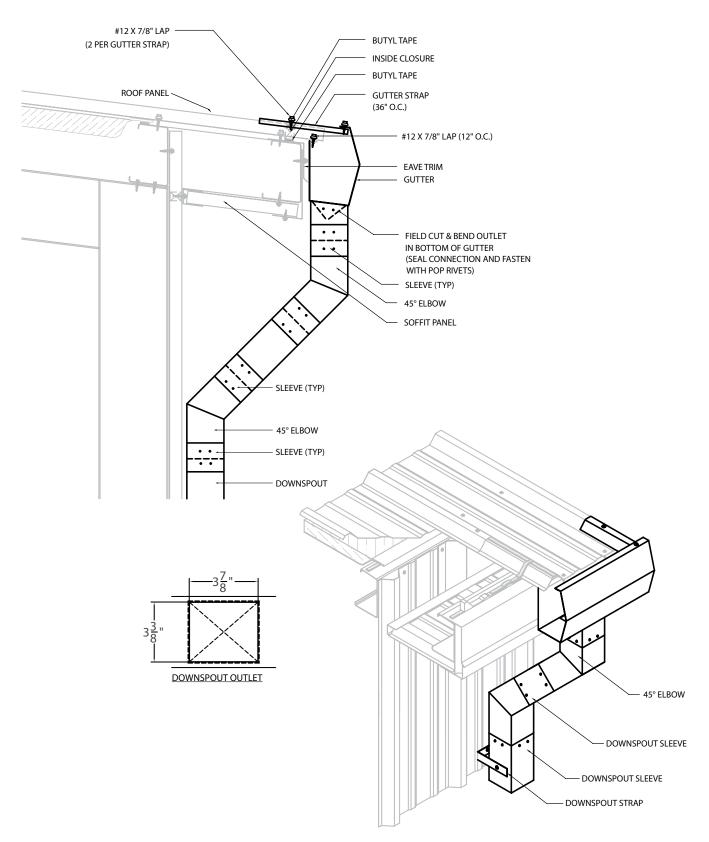




### FRAMED OPENING TRIMS



# **GUTTERS**



## **GUTTERS**

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

EAVE 5:12 PITCH

4

Δ

Δ

MLSGU5- Girth 26.1875"

8 11/16"

### SCULPTURED GUTTERS

71⁄4"

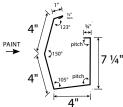
HANG-ON 0-4:12 PITCH MLGU - Girth 21.50"

EAVE 0-4:12 PITCH

MLSGU - Girth 24.25"

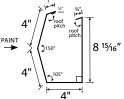
4

PAINT

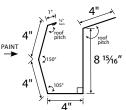


HANG-ON 5:12 PITCH MLGU5 - Girth 22.9375" roof 8 11/16" 4 4"

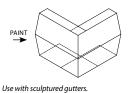
HANG-ON 6:12 PITCH MLGU6 - Girth 23.1875"



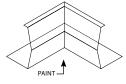
EAVE 6:12 PITCH MLSGU6 - Girth 26.4375"



OUTSIDE CORNER BOX **OCB** - Specify pitch.

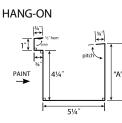


INSIDE CORNER BOX ICB - Girth 25.6875"

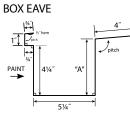


Use with sculptured gutters.

### BOX GUTTERS - Di



| - Dimension "A" will change depending on chosen pitch. |       |          |          |   |  |  |  |  |
|--|-------|----------|----------|---|--|--|--|--|
| PART #   | PITCH | GIRTH    | DIM. "A" | B |  |  |  |  |
| MLBHG1   | 1:12  | 18.0625" | 4.8125"  |   |  |  |  |  |
| MLBHG2   | 2:12  | 18.5625" | 5.3125"  |   |  |  |  |  |
| MLBHG3   | 3:12  | 19"      | 5.75"    |   |  |  |  |  |
| MLBHG4   | 4:12  | 19.5"    | 6.25"    |   |  |  |  |  |
| MLBHG5   | 5:12  | 19.9375" | 6.6875"  |   |  |  |  |  |
| MLBHG6   | 6:12  | 20.4375" | 7.1875"  |   |  |  |  |  |
|  |       |          |          |   |  |  |  |  |



|   | PART # |      | GIRTH    | DIM."A" |
|---|--------|------|----------|---------|
| + | MLBEG1 | 1:12 | 21.3125" | 4.8125" |
| _ | MLBEG2 |      | 21.8125" | 5.3125" |
|   | MLBEG3 | 3:12 | 22.25    | 5.75    |
|   | MLBEG4 | 4:12 | 22.75"   | 6.25"   |
|   | MLBEG5 | 5:12 | 23.1875" | 6.6875" |
|   | MLBEG6 | 6:12 | 23.6875" | 7.1875" |
|   |        |      |          |         |

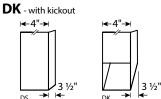
DOWNSPOUT CONNECTOR

Δ1/a

DSLVE

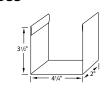
### **DOWNSPOUTS**

DOWNSPOUT- Length 16" DS - straight



DOWNSPOUT ELBOW DSE45 DSE90

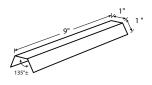




DOWNSPOUT STRAP

DSS

**GUTTER STRAP** MLGS96

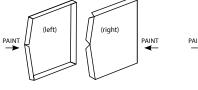


#### DOWNSPOUT OUTLET DSOUTLET



Specify pitch. 1/2" turndowns.





BOX GUTTER END CAP BGEN - Specify pitch.

4



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

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# **ACCESSORIES**

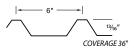
### **FASTENERS**

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

| ТҮРЕ                | 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  |



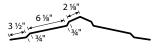
SKYLIGHTS For best results, use approved sealant (MRS10SKY), Skylight Trim (MLSK) and washer (118WASHER). Skylights should be predrilled.



White Fiberglass MLSKYW12 - Length 12!.



Skylight Sealant - Clear. MRS10SKY - 10.3 oz. tube Approved for skylight use.



Skylight Ridge Cap - Universal RCPCC10 - Clear Polycarbonate **RCPCW10** - White Polycarbonate Length 10'6". Width 25".



Skylight Washer - White. 118WASHER - %" outside diameter, ¼" inside diameter 100 per bag.



Skylight Trim MLSK - Girth 5".





DOOR SET - With steel jamb, knob sold separately. 3068DR - 38" x 81 3/6" 4068DR - 50" x 81 3/6"

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: Jambs, headers, threshold, door lever with keyed lock, hinges, and weather strip kit. Frames are non-reversable. Swing-out only.

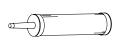
## ACCESSORIES



| PART #<br>BTL<br>Recommended fo | LENGTH<br>45'<br>or M-Loc. | WIDTH<br>3/4" | THICKNESS<br>3/32" | ROLLS PER BOX<br>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.

#### SEALANT



 PART #
 SIZE

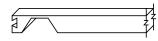
 GEO(color)
 10.3 oz. tube

 MRS10(color)
 10.3 oz. tube

 MRS10CLEAR
 10.3 oz. tube

### **CLOSURES**

OUTSIDE CLOSURE MLCLOUT - No Glue. MLCLOUTGLUE - With Glue.



Length - 3'. 100 per box.

GRAYFLEX GRAYFLEX-6 - 24-rolls per box. For use with hips and valleys.



Length 20! Width 1". Thickness 1".

INSIDE CLOSURE MLCLIN - No Glue. MLCLINGLUE - With Glue.



Length - 3'. 100 per box.

UNIVERSAL POLYFOAM **POLYG** - With Glue. 10-rolls per box.



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

CLOSURE VENT

COLOR

clear

clear, gray, white

call for colors



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

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"

**4SMPF** - Pipe size 2.75" to 7"

Silicone - Orange, high temp max 500°.

**6SMPF** - Pipe size 4.75" to 10"

**85MPF** - Pipe size 6.75" to 13.5"

OSIVIET - Pipe size 6.75 to

**MPF8** - Pipe size 6.75" to 13.5"

Square with zipper - Max temperature 250°.



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





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## **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

CEE



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

**CHANNEL** 

WEB

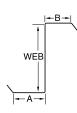




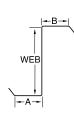


\* Specify pitch and slope when ordering. For low pitch (up to 4:12) add a "!" to the end of the code. For high pitch (5:12 and above) add a "H" to the end of the code.

WEB

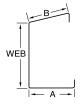


LGSI ZEE



ZEE

**EAVE STRUTS** 



Single Slope Up

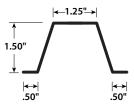
WEB Α

Single Slope Down



Double Slope Down

### HAT CHANNEL



HAT20Z202 - 20'2" length, 20 gauge, galvanized. HAT20Z - Specify length, 20 gauge, galvanized. HAT16Z - Specify length, 16 gauge, galvanized.

WEB

### **PURLIN CLIPS**

GIRT CLIP GIRTCLIP - 10 gauge. GIRTCLIPZ - 10 gauge.



MINI CLIP MINICLIP- 16 gauge. 5

BASE CLIP BASECLIP- 14 gauge.



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## SECONDARY FRAMING

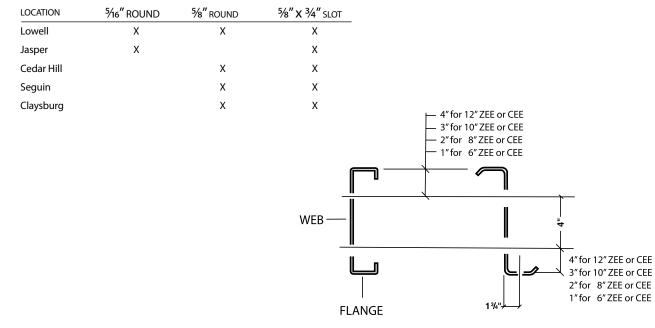
| TYPE             | AxB                          | GAUGE         | ITEM CODE<br>RED OXIDE | ITEM CODE<br>GALVANIZED |
|------------------|------------------------------|---------------|------------------------|-------------------------|
| Angle            | 2.5 x 2.5                    | 14            | B2514R                 |                         |
| Angle            | 3 x 3                        | 16            | B316R                  | B316Z                   |
| Angle            | 3 x 3                        | 14            | B314R                  | B314Z                   |
| -                | 4x2                          | 16            | B4216R                 | B4216Z                  |
| Angle            |                              |               |                        |                         |
| Angle            | 4 x 2                        | 14            | B4214R                 | B4214Z                  |
| Angle            | 4 x 3                        | 16            | B4316R                 |                         |
| TYPE             | WEB x A x B                  | GAUGE         | RED OXIDE              | GALVANIZED              |
| Channel          | 4.25 x 2.35 x 2.35           | 16            | U4216R                 | U4216Z                  |
| Channel          | 4.25 x 2.85 x 2.85           | 16            | U42516R                | U42516Z                 |
| Channel          | 4.25 x 2.85 x 2.85           | 14            | U42514R                | U42514Z                 |
| Channel          | 4.25 x 2.85 x 2.85           | 12            | U42512R                | U42512Z                 |
| Channel          | 6.25 x 2.85 x 2.85           | 16            | U62516R                | U62516Z                 |
| Channel          | 6.25 x 2.85 x 2.85           | 14            | U62514R                | U62514Z                 |
| Channel          | 8.25 x 2.85 x 2.85           | 16            | U82516R                | U82516Z                 |
| Channel          | 8.25 x 2.85 x 2.85           | 14            | U82514R                | U82514Z                 |
| Channel          | 8.25 x 2.85 x 2.85           | 12            | U82512R                | U82512Z                 |
|                  |                              |               |                        |                         |
| TYPE             | WEB x A x B                  | GAUGE         | RED OXIDE              | GALVANIZED              |
| Eave Strut       | 6 x 4 x 3                    | 16            | E64316R*               | E64316Z*                |
| Eave Strut       | 6 x 4 x 3                    | 14            | E64314R*               | E64314Z*                |
| Eave Strut       | 6 x 4 x 3                    | 12            | E64312R*               | E64312Z*                |
| Eave Strut       | 8 x 4 x 3                    | 14            | E84314R*               | E84314Z*                |
| Eave Strut       | 8 x 4 x 3                    | 12            | E84312R*               | E84312Z*                |
| Eave Strut       | 8 x 5 x 3                    | 14            | E85314R*               | E85314Z*                |
| Eave Strut       | 8 x 5 x 3                    | 12            | E85312R*               | E85312Z*                |
| Eave Strut       | 8 x 5 x 5                    | 14            | E85514R*               |                         |
| Eave Strut       | 10 x 5 x 3                   | 14            | E105314R*              |                         |
| *For low pitch ( | up to 4:12) add a "L" to the | end of the co | ode.                   |                         |
| For high pitch   | (5:12 and above) add a "H'   | to the end c  | of the code.           |                         |
| TYPE             | WEB x A x B                  | GAUG          | E 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              | 9x3x3                        | 14            | C9314R                 | C9314Z                  |
| CEE              | 9x3x3                        | 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                 |
|                  |                              |               |                        |                         |

|          |                 |       | ITEM CODE | ITEM CODE  |
|----------|-----------------|-------|-----------|------------|
| TYPE     | WEB x A x B     | GAUGE | RED OXIDE | GALVANIZED |
| LGSI ZEE | 6 x 2¾ x 2½     | 16    | Z62516R   | Z62516Z    |
| LGSI ZEE | 6 x 2¾ x 2½     | 14    | Z62514R   | Z62514Z    |
| LGSI ZEE | 8 x 2¾ x 2½     | 16    | Z82516R   | Z82516Z    |
| LGSI ZEE | 8 x 21⁄8 x 21⁄8 | 14    | Z82514R   | Z82514Z    |
| 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 2% x 2%    | 14    | Z10314R   | Z10314Z    |
| LGSI ZEE | 10 x 2% x 2%    | 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 35⁄8  | 16    | Z12416R   | Z12416Z    |
|          |                 |       |           |            |
| TYPE     | WEB x A x B     | GAUGE | RED OXIDE | GALVANIZED |
| ZEE      | 4 x 2 x 2       | 16    | Z4216R    | Z4216Z     |
| ZEE      | 4 x 2.5 x 2.5   | 16    | Z42516R   | Z42516Z    |
| ZEE      | 4 x 2.5 x 2.5   | 14    | Z42514R   | Z42514Z    |
| ZEE      | 4 x 2.5 x 2.5   | 12    | Z42512R   | Z42512Z    |
| ZEE      | 4 x 3.5 x 3.5   | 16    | Z43516R   | Z43516Z    |
| ZEE      | 4 x 3.5 x 3.5   | 14    | Z43514R   | Z43514Z    |
| ZEE      | 6 x 2.5 x 2.5   | 16    | Z62516R   | Z62516Z    |
| ZEE      | 6 x 2.5 x 2.5   | 14    | Z62514R   | Z62514Z    |
| 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 4 x 4      | 16    | Z12416R   | Z12416Z    |
|          |                 |       |           |            |

# STANDARD PUNCH PATTERNS

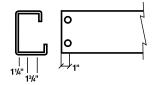
Punch capabilities vary by location. Call for pricing and availability on special punching. Punches cannot be made on secondary framing members shorter than 3". Holes are punched to accommodate 1/2" diameter bolts.

#### Standard hole sizes:

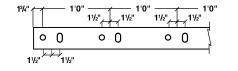


### FLANGE PATTERNS - Punches can be placed on either or both ends.

EAVE STRUT FOR 4" LEG **ES4** 

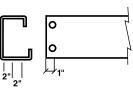


PATTERN D - OPTIONAL FLANGE

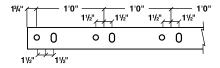


Use with web pattern A.

EAVE STRUT FOR 5" LEG **ES5** 

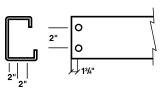


PATTERN E - OPTIONAL FLANGE

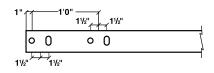


Use with web pattern B.

EAVE STRUT FOR 5" LEG **ES134** 



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** PATTERN H STANDARD WEB END SIMPLE SPAN PUNCH PPEP PPH **PPSS** 2'2' 0 0 0 0 0 0 0 Π. **, 1**³⁄₄" ' **1**3/4" Minimum part length 5' total, 2'6" one end. SHORT LAP PUNCH LONG LAP PUNCH PPSL PPLL 10' 10' 1'4 2'2" 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -4"→ → **1**¾" 13/ Minimum part length 5'6" total, 2'8" one end. Minimum part length 7' total, 3'6" one end.

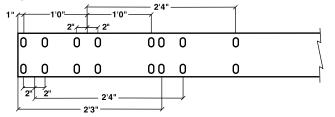
### PATTERN A - STANDARD WEB - 9' Minimum length if punched on both ends; 4'6" if punched on one end. **PPA**

| <b>1</b> ¾" ⁄ | 1           | — 1'0" | _1 <sup>2"</sup> | <u></u> 1'0<br>2″ر | "2"_2" | -1'0" | 1 | —1'0         | )"          | 1   |
|---------------|-------------|--------|------------------|--------------------|--------|-------|---|--------------|-------------|-----|
|               | 0           | 0      | 0                | 0                  | 000    | 0     | 0 | 0            | 0           | 7 0 |
|               | 0           | 0      | 0                | 0                  | 000    | 0     | 0 | 0            | 0           | 0   |
|               | 2"/<br>3¾"/ | 2"     |                  | — 2'4" –           |        |       |   | <b>¦"</b> →∕ | <u>ب</u> 4' |     |

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

| <b>1</b> ¾" | 11                         | —1'( | 0" —          | <b>2</b> "_1 | 1'0"2"_2" | - 1'0" - | 1'0'                      | "   | 1'0' | '— | ——1' | o"—<br>≁ 4 |   | 1 |
|-------------|----------------------------|------|---------------|--------------|-----------|----------|---------------------------|-----|------|----|------|------------|---|---|
|             | 0                          | 0    | 00            | 0            | 000       | 0        | 0000                      | Ó   | 0    | 0  | 0    | 0          | 0 | 7 |
|             | 0                          | 0    | 00            | -            | 000       | 0        | 0000                      | 0   |      |    | 0    | 0          | 0 | / |
|             | 2"/<br>3 <sup>3</sup> /4"/ | 2"   | <b>↓</b> 4" ; | ⊭<br>— 2'4   | 1"        |          | <b>≠ 4</b> " <del>≠</del> | ∳ 4 | " ≠  | ¥  | 4" ≠ |            |   | 1 |

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



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## NOTES

| <br> |
|------|
|      |
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