

COMPONENTS SUBSTRUCTURAL



ZEE



CEE



EAVE STRUT



SUB-GIRT



HAT



CHANNEL



MAC-GIRT

Product Information





SUBSTRUCTURAL INFORMATION

GENERAL INFORMATION

McELROY METAL

McElroy Metal manufactures a complete line of cold-formed substructural components including Cees, Zees, Eave Struts, Sub-Girts, Angles, Hats, and Channels. Purlins and girts are manufactured in popular gauges and in a variety of section depths and flange widths. Red oxide is standard for all components. Galvanized (G-90) is also available. Galvanized is standard finish in Adelanto, California. This wide range of availability offers unlimited design flexibility in a quality product. Cees, Zees and Eave Struts are punched according to universal punching patterns, or custom punching is available.

STANDARD PUNCHING PATTERNS ORDER INFORMATION EAVE STRUTS

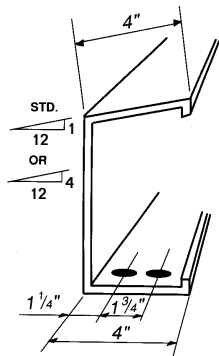
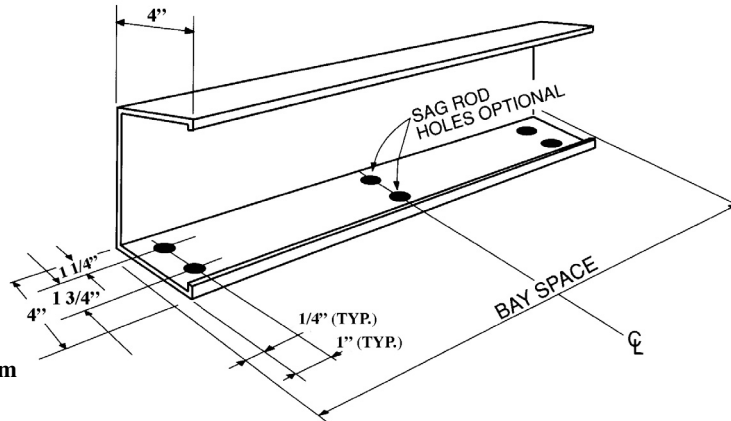
SIZE	GAUGE
10"	14
8"	14
7"	14

Other section depths compatible with cees and zees are available. Contact Customer Service for more information.

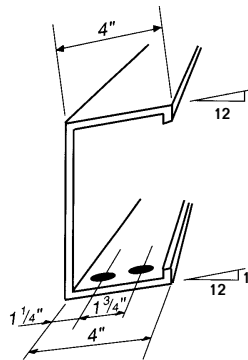
Note: Available in punched or unpunched.

ORDER INFORMATION

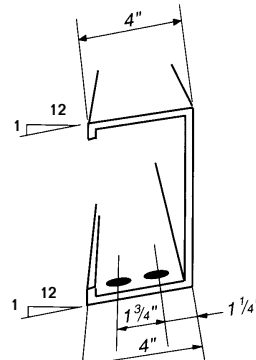
To determine actual order length, subtract 1/2" from bay spacing.



STANDARD



DOUBLE SLOPE



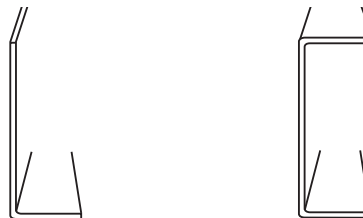
HIGH SIDE

Note: Double slope eave struts are available in the same sizes and gauges as standard eave struts. When ordering, please request double slope.

* 5" Flange also available in Bossier City, Clinton, Adelanto, Asburn, and Sunnyvale.

Substructural Angles and Channels

Note: Substructural Angles and Channels are available in 12, 14, and 16 gauge.

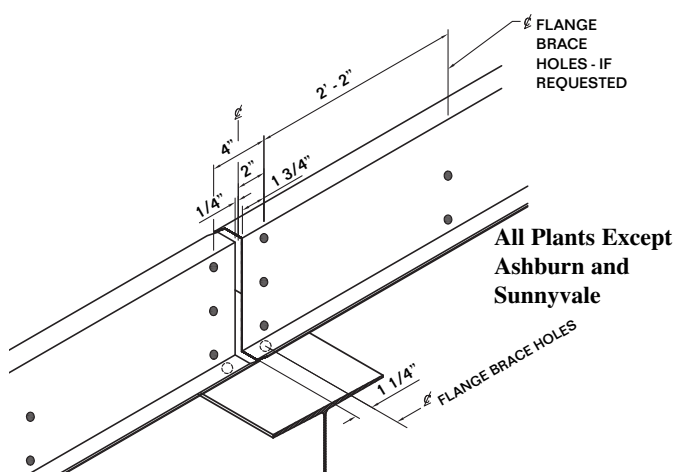


IMPORTANT INFORMATION

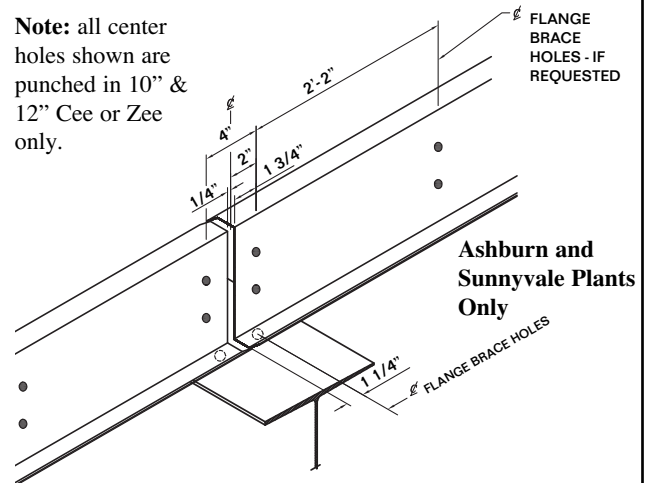
1. Standard structural shapes are available in 16, 14 and 12 gauge, hi-strength hot rolled material as per ASTM A1011 Grade 55 (57,000 PSI minimum yield strength) Steel.
2. Section properties have been calculated in accordance with the 2007 edition of AISI specifications.
3. Standard finish is red oxide primer. Galvanized (G-90) as per ASTM A653 is also available. Contact Customer Service for lead times. (Note: Galvanized is standard finish in Adelanto, CA.)
5. Please inquire concerning special custom shaped sections and special punching.
6. Engineering data available at: www.mcelroymetal.com.

STANDARD PUNCHING PATTERNS ORDER INFORMATION CEES AND ZEES

SIMPLE SPAN

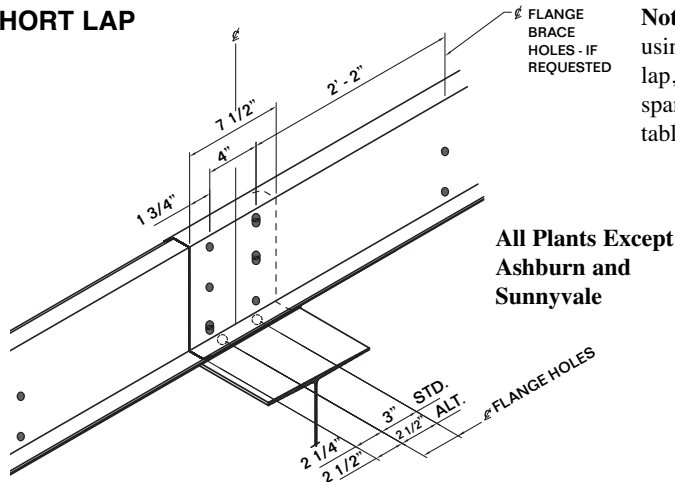


Note: all center holes shown are punched in 10" & 12" Cee or Zee only.

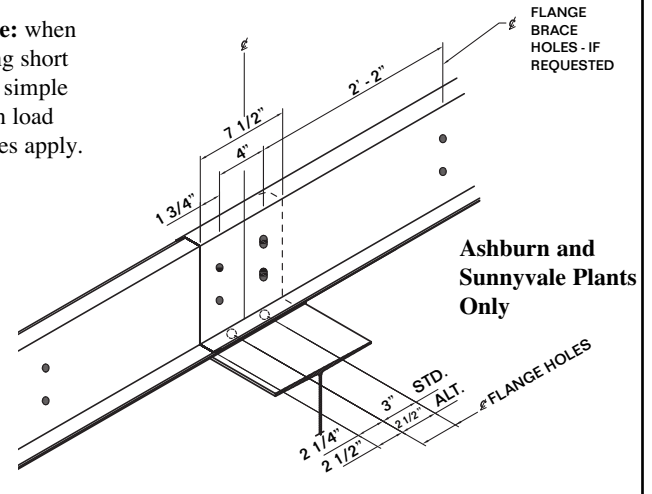


Order Information: 1. To determine actual order length, subtract 1/2" from bay spacing.
2. To determine end bay actual order length, subtract 1/2" from bay spacing.

SHORT LAP

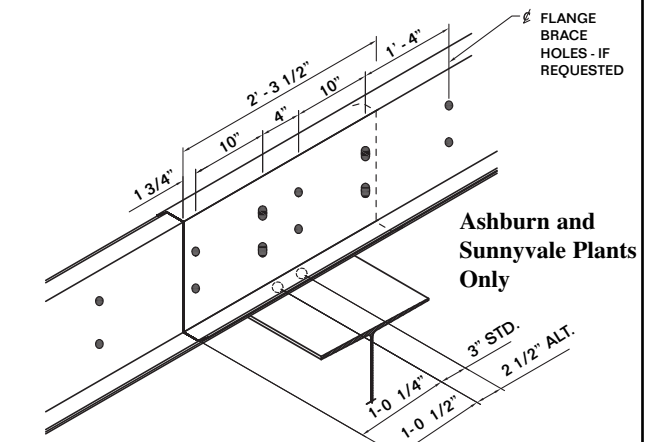
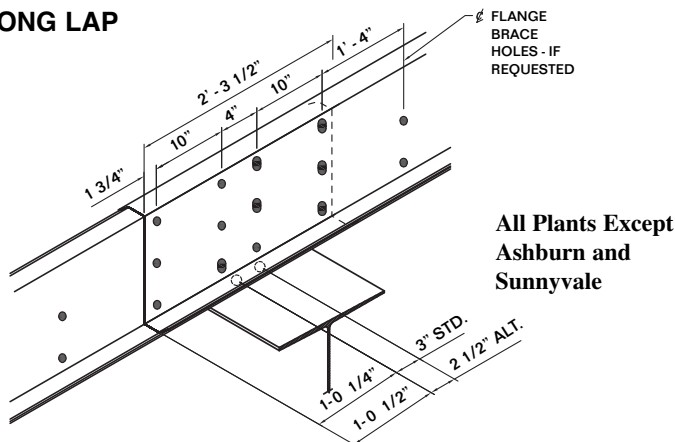


Note: when using short lap, simple span load tables apply.



Order Information: 1. To determine actual order length, add 7 1/2" to bay spacing.
2. To determine end bay actual order length, subtract 1/4" for setback, then add 3 3/4" to bay spacing.

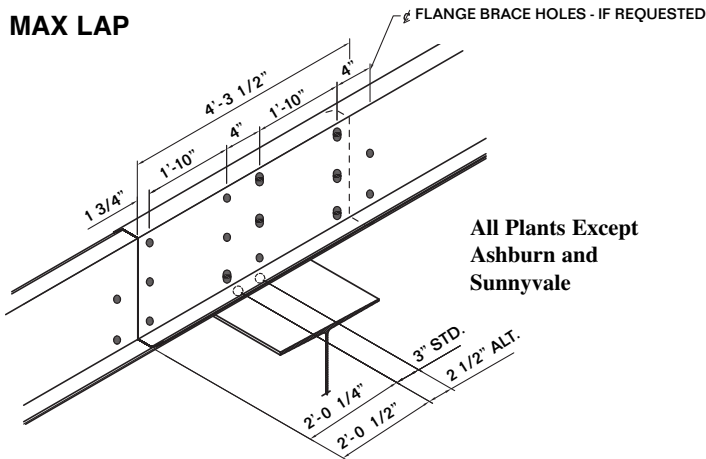
LONG LAP



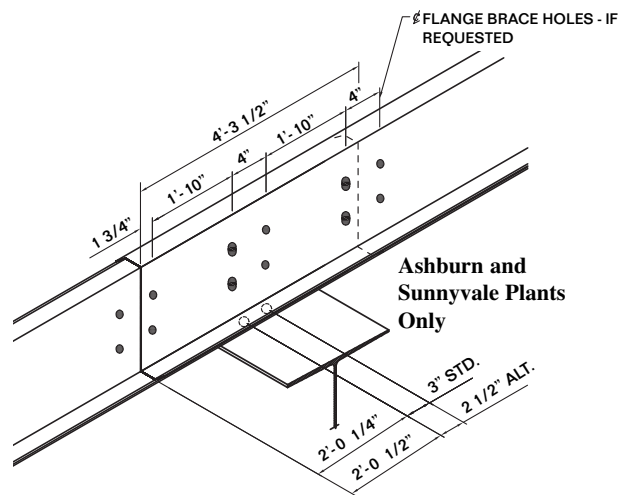
Order Information: 1. To determine actual order length, add 2'-3 1/2" to bay spacing.
2. To determine end bay actual order length, subtract 1/4" for setback, then add 1'-1 3/4" to bay spacing.

STANDARD PUNCHING PATTERNS ORDERING INFORMATION CEES AND ZEES

MAX LAP



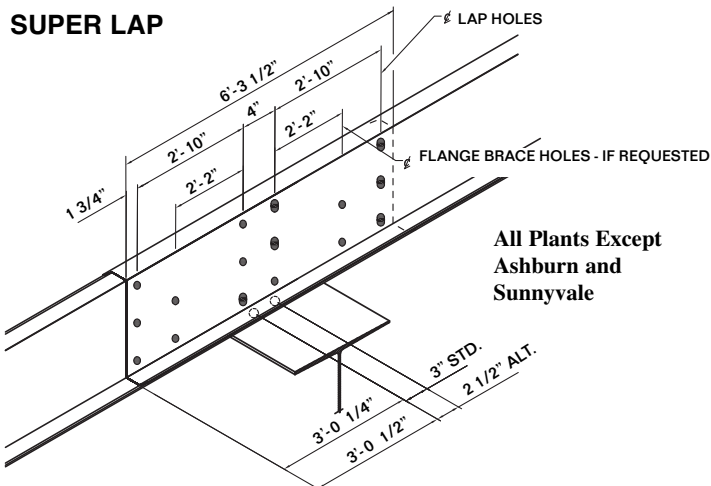
All Plants Except
Ashburn and
Sunnyvale



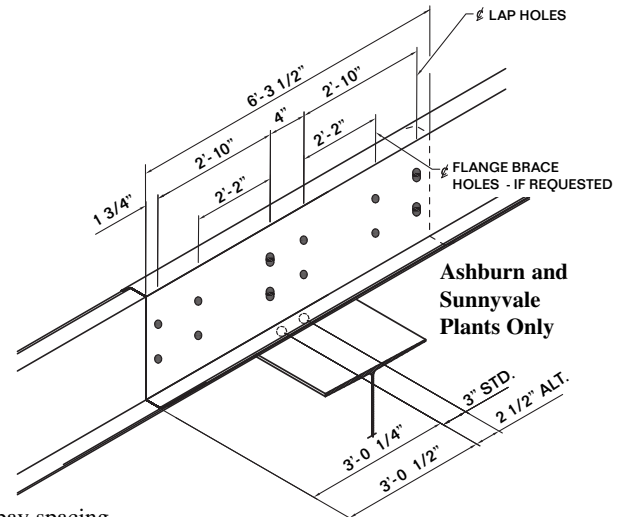
Ashburn and
Sunnyvale Plants
Only

Order Information: 1. To determine actual order length, add 4'- 3 1/2" to bay spacing.
2. To determine end bay actual order length, subtract 1/4" for setback, then add 2'- 1 3/4" to bay spacing.

SUPER LAP



All Plants Except
Ashburn and
Sunnyvale

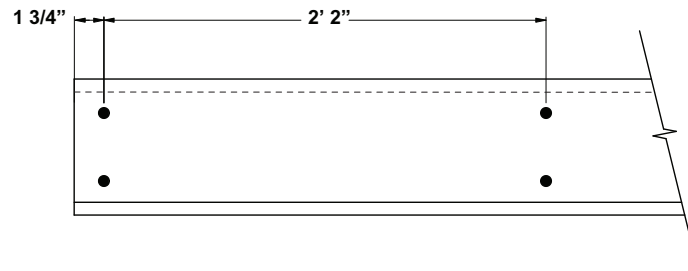


Ashburn and
Sunnyvale
Plants Only

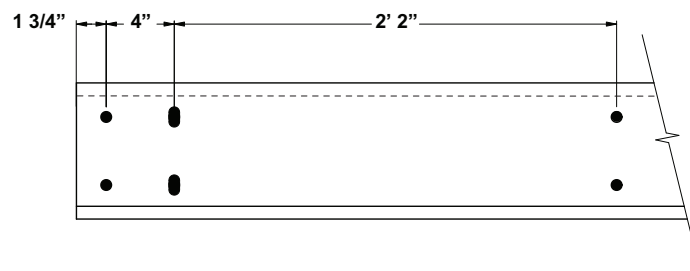
Order Information: 1. To determine actual order length, add 6'- 3 1/2" to bay spacing.
2. To determine end bay actual order length, subtract 1/4" for setback, then add 3'- 1 3/4" to bay spacing.

NOTES:

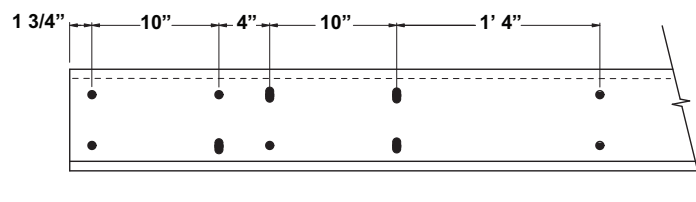
* SIMPLE SPAN PUNCH



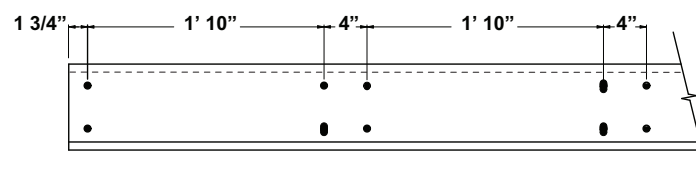
* SHORT LAP PUNCH



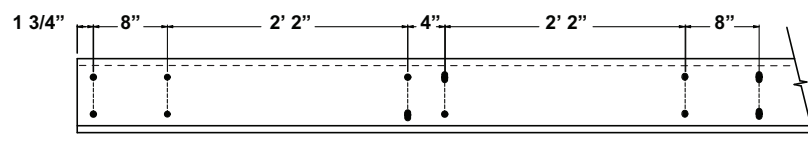
* LONG LAP PUNCH



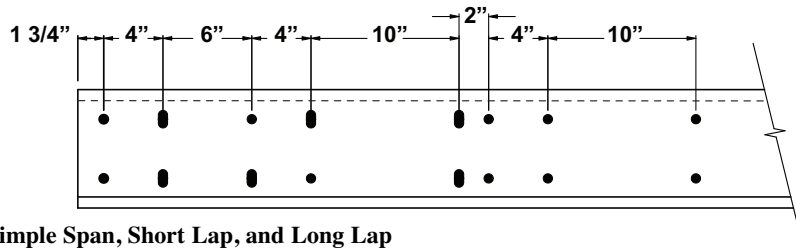
* MAX LAP PUNCH



* SUPER LAP PUNCH

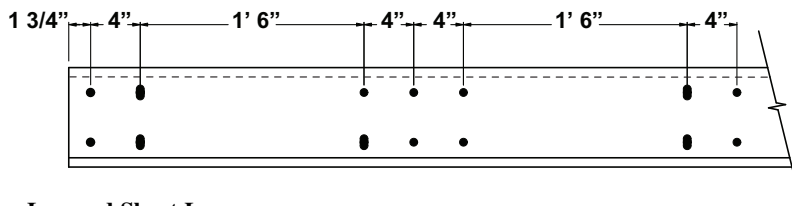


* UNIVERSAL PUNCH



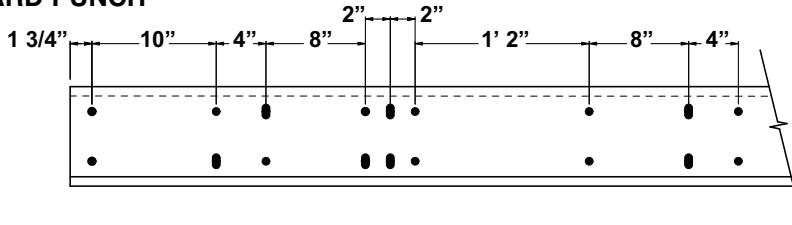
Includes: Simple Span, Short Lap, and Long Lap

* END BAY PUNCH



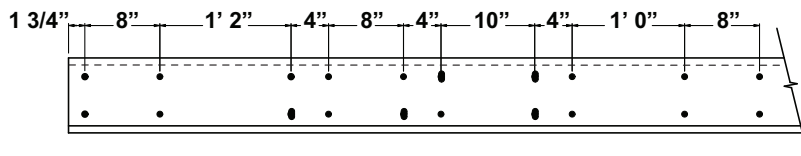
Includes: Max Lap and Short Lap

* STANDARD PUNCH



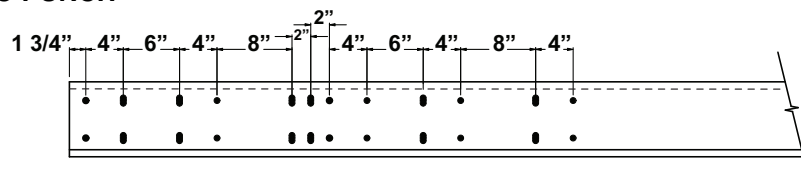
Includes: Max Lap and Long Lap

* EXTENDED PUNCH



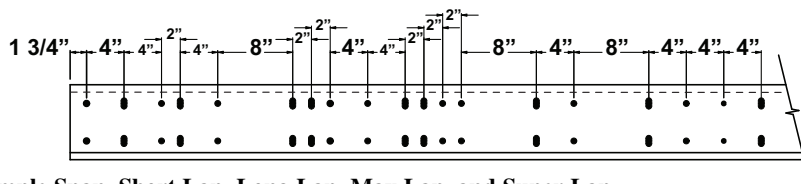
Includes: Super Lap and Max Lap

* CLASSIC PUNCH



Includes: Simple Span, Short Lap, Long Lap, and Max Lap

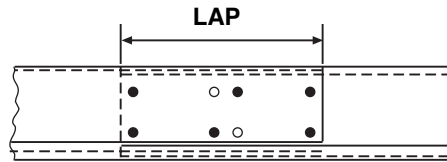
* COMPREHENSIVE PUNCH



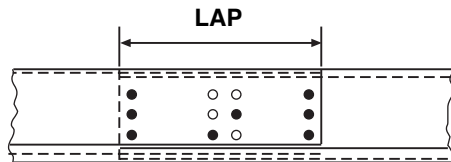
Includes: Simple Span, Short Lap, Long Lap, Max Lap, and Super Lap

BOLTS / HAT AND CHANNEL / MAC-GIRT / SUB-GIRT

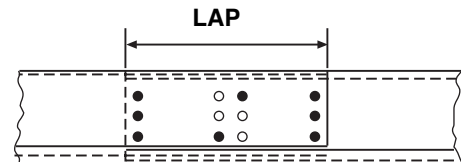
Bolts Per Lap Type
Bolts: 1/2" Diameter



For 6" thru 9" Deep Zees, 6 Bolts required per Lap (and all depths in Ashburn and Sunnyvale).



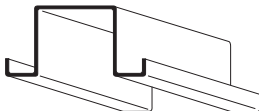
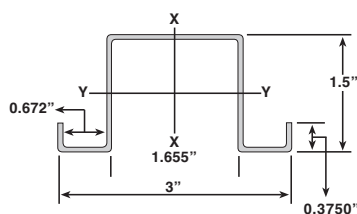
For 10" thru 12" Deep Zees, 8 Bolts required per Lap.



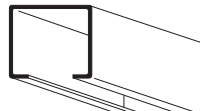
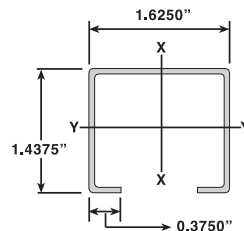
Alternate for 10" Deep Zees, 8 Bolts required per Lap.

Hat and Channel

HAT



CHANNEL

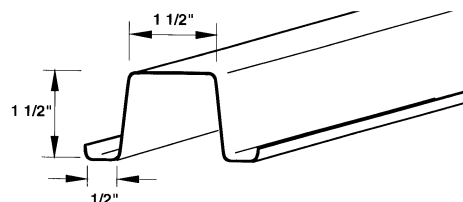


Section	Dimension	Gauge
Hat	1 3/4" x 1 1/2"	16
Hat	1 3/4" x 1 1/2"	18
Hat	1 3/4" x 1 1/2"	20
Channel	1 5/8" x 1 7/16"	16
Channel	1 5/8" x 1 7/16"	18

- McElroy Metal's standard hat and channel line is ideal for use in mansard, roof and canopy applications.
- Hats and channels are galvanized and come in a variety of gauges.
- Minimum length is 5'.
- Maximum length is 24'.
- Manufactured in Lewisport, Kentucky.

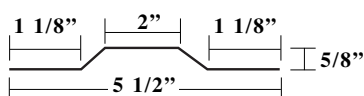
Mac-Girt

- Available in 16, 18, and 20 Gauges.
- Minimum length is 5'.
- Maximum length is 24'.
- Manufactured in Lewisport, Kentucky.



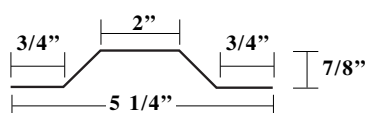
Sub-Girt

MSG 1



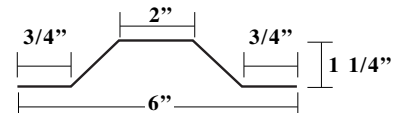
- 16, 18, & 20 Gauge
- 5/8" x 5 1/2"
- Galvanized
- Minimum length is 13'
- Maximum length is 24'

MSG 2



- 18, & 20 Gauge
- 7/8" x 5 1/4"
- Galvanized
- Minimum length is 13'
- Maximum length is 24'

MSG 3



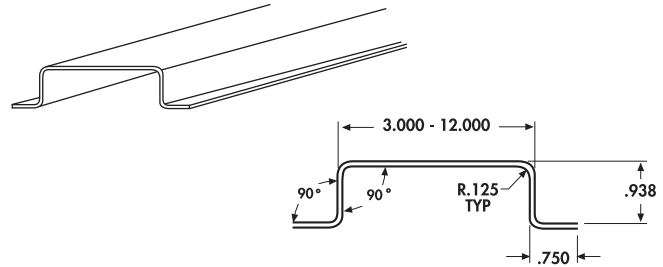
- 18, & 20 Gauge
- 1 1/4" x 6"
- Galvanized
- Minimum length is 13'
- Maximum length is 24'

Please note: MSG1, MSG2, and MSG3 are manufactured in Lewisport, Kentucky.

Hat Channel

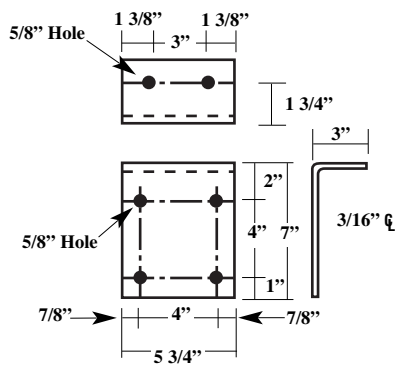
HAT CHANNEL CEES AND ZEE CLIPS

Hat Channel	Dimension	GA
Red Primed Hat Channel	3" x 1.0069"	14
Red Primed Hat Channel	4" x 1.0069"	14
Red Primed Hat Channel	6" x 1.0069"	14
Red Primed Hat Channel	9" x 1.0069"	14
Galvanized Hat Channel	6" x 1.0069"	14
Galvanized Hat Channel	9" x 1.0069"	14

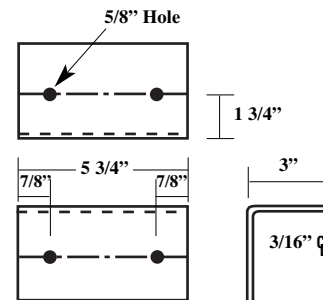


• Manufactured in Clinton, Illinois.

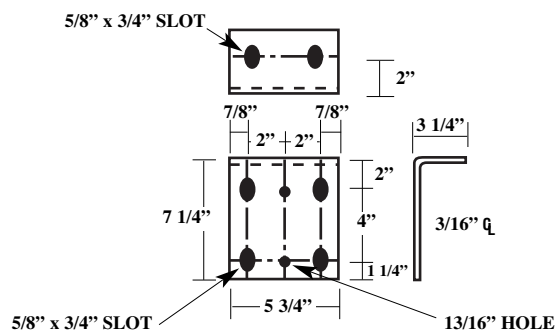
Cee and Zee Clips



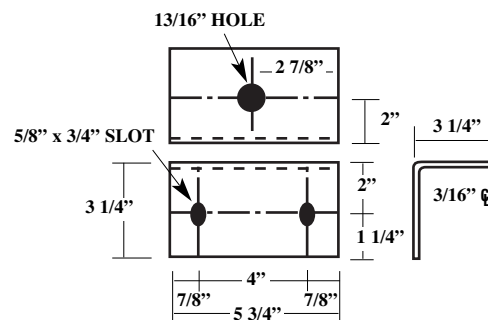
3" x 7" x 3/16" x 0' - 5 3/4"
WT. = 3.22
Item #: 76810



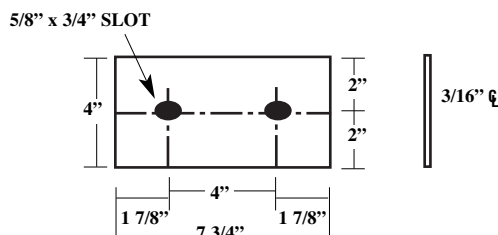
3" x 3" x 3/16" x 0' - 5 3/4"
WT. = 1.92
Item #: 76800



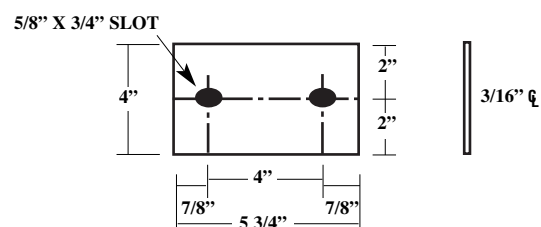
3 1/4" x 7 1/4" x 3/16" x 0' - 5 3/4"
WT. = 3.52
Item #: 76830



3 1/4" x 3 1/4" x 3/16" x 0' - 5 3/4"
WT. = 2.22
Item #: 76820



7 3/4" x 3/16" x 0' - 4"
WT. = 1.70
Item #: 76850



5 3/4" x 3/16" x 0' - 4"
WT. = 1.28
Item #: 76840



SUBSTRUCTURAL INFORMATION

STANDARD CEE AND ZEE AVAILABILITY

ADELANTO	- Web size options vary from 4" to 12". - Flange size options vary from 2" to 4". - Return legs are 13/16" +/- 1/8". - Widest coil girth available is 20 15/16". - Web punching is standard - flange punching must be requested at time of order. - 4" web - contact a McElroy Representative. - 6" to 9" web gets standard 2 hole pattern (Example: 8" web is 2-4-2 pattern). - 10" web with 2", 2 1/2", or 3" flange - standard 2 hole punch (3-4-3 pattern) or standard 3 hole punch (1-4-4-1 pattern). - 10" web with 4" flange - standard 3 hole punch only (1-4-4-1 pattern). - 12" web gets standard 3 hole punch (2-4-4-2 pattern). - 12" web alternate is 2 hole punch (2-4-2 pattern). - Minimum length - 5'. Maximum length - 45' when rollformed. - 32' maximum length for special press broke purlins. - Stocks galvanized purlin coil only.
ASHBURN	- Web size options vary from 4" to 12". - Ashburn can make 2" flange on all web sizes and 5" flange on web sizes 8" or larger. - Return legs are 13/16" +/- 1/8". - Widest coil girth available is 24 15/16". - Web and flange can be punched in any location - flange punching must be requested at time of order. - Minimum length - 5'. Maximum length - 65' when rollformed. - 32' maximum length for special press broke purlins.
BOSSIER	- Web size options vary from 4" to 12". - Flange size options vary from 2" to 4". - Return legs are 13/16" +/- 1/8". - Widest coil girth available is 20 15/16". - Web punching is standard - flange punching must be requested at time of order. - 4" web - contact a McElroy Representative. - 6" to 9" web - standard 2 hole punch (Example: 8" web has 2-4-2 pattern). - 10" web with 2", 2 1/2", or 3" flange - standard 2 hole punch (3-4-3 pattern) or standard 3 hole punch (1-4-4-1 pattern). - 10" web with flange greater than 3" can not be punched. - 12" web with 2" or 2 1/2" gets standard 3 hole punch (2-4-4-2 pattern). - 12" web with flange greater than 2 1/2" can not be punched. - Minimum length - 5'. Maximum length - 60' when rollformed. - 32' maximum length for special press broke purlins.
CLINTON	- Web size options vary from 4" to 12". - Flange size options vary from 2" to 4". - Return legs are 13/16" +/- 1/8". - Widest coil girth available is 20 15/16". - Web punching is standard - flange punching must be requested at time of order. - 4" web - contact a McElroy Representative. - 6" to 9" web gets standard 2 hole pattern (Example: 8" web is 2-4-2 pattern). - 10" web with 2", 2 1/2", 3" flange - standard 2 hole punch (3-4-3 pattern) or standard 3 hold punch (1-4-4-1 pattern). - 10" web with 4" flange - standard 3 hole punch only (1-4-4-1 pattern). - 12" web gets standard 3 hole punch (2-4-4-2 pattern). - Minimum length - 5'. Maximum length - 45' when rollformed. - 32' maximum length for special press broke purlins.
SUNNYVALE	- Web size options vary from 4" to 12". - Flange size options vary from 2" to 4". - Return legs are 13/16" +/- 1/8". - Widest coil girth available is 23 15/16". - Web and flange can be punched in any location - flange punching must be requested at time of order. - Minimum length - 5'. Maximum length - 65' when rollformed. - 3 1/2" x 1 1/2" zee capability. - 32' maximum length for special press broke purlins.
WINCHESTER	- Web size options vary from 4" to 12". - Flange size options - 1 1/2", 2", 2 1/2", 3", 3 1/2" (zee only). - 2 1/2", 3 1/2", 4" (cee only). - Return legs are 13/16" +/- 1/8". - Widest coil girth available is 20 15/16". - Web punching is standard - flange punching must be requested at time of order. - 4" web - contact a McElroy Representative. - 6" to 9" web gets standard 2 hole pattern (Example: 8" web is 2-4-2 pattern). - 10" web with 2", 2 1/2", or 3" flange - standard 2 hold punch (3-4-3 pattern) or standard 3 hole punch (1-4-4-1 pattern). - 10" web with 4" flange - standard 3 hole punch only (1-4-4-1 pattern). - 12" web gets standard 3 hole punch (2-4-4-2 pattern). - Minimum length - 5'. Maximum length - 45' when rollformed. - 26' maximum length for special press broke purlin.
SPECIAL CEES AND ZEES	- Confirm critical dimensions. - Formula: web + flange + flange + 15/16" = coil girth. - Contact a McElroy Representative regarding special punching.



☆ MANUFACTURING LOCATIONS ● SERVICE CENTERS ★ MANUFACTURING AND SERVICE CENTER



CORPORATE OFFICE

1500 HAMILTON RD.
BOSSIER CITY, LA 71111

MANUFACTURING LOCATIONS

ADELANTO, CA	ASHBURN, GA	BOSSIER CITY, LA	CLINTON, IL	DIAMOND, MO
HOUSTON, TX	LEWISPORT, KY	MARSHALL, MI	MAUSTON, WI	MERKEL, TX
	PEACHTREE CITY, GA	SUNNYVALE, TX	WINCHESTER, VA	

McELROY METAL SERVICE CENTER

5215 Leo St.
Alexandria, LA 71301

1007 Wilso Dr,
Baltimore, MD 21223

1500 Hamilton Rd.
Bossier City, LA 71111

3052 Yadkin Road
Chesapeake, VA 23323

9476 Meadowbrook Rd.
Clinton, IL 61727

3215 Highway 59
Diamond, MO 64840

390 N. Valley Dell Dr.
Fenton, MO 63026

409 Lovejoy Road
Ft. Walton Beach, FL 32548

3014 Lincoln Court
Garland, TX 75041

1440 Aldine Bender Road
Houston, TX 77032

10504 E. 59th Street
Indianapolis, IN 46236

9435 US Hwy. 60 W.
Lewisport, KY 42351

1020 Veterans Street
Mauston, WI 53948

5123 Terminal Dr.
McFarland, WI 53558

514 Cave Road
Nashville, TN 37210

8304 Hwy. 70 E.
North Little Rock, AR 72117

613 North Bierdeman Rd.
Pearl, MS 39208

7450 Tower Street
Richland Hills, TX 76118

5300 83rd Street
Sacramento, CA 95826

1365 Dean Forest Rd.
Savannah, GA 31405

7355 Oakley Industrial Blvd.
Union City, GA 30291

1144 Silstar Rd.
West Columbia, SC 29170

325 McGhee Rd.
Winchester, VA 22603

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