Product Information
McELROY METAL

McElroy Metal manufacturers 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.
1. All Cees are manufactured with symmetrical flanges.
2. For code requirements, contact McElroy’s Engineering Department.
3. Flange punching is available on 6” through 12” Zees and Cees, but must be requested.
4. Web punching is available on 6” through 12” Zees and Cees. For web punching on 4” members, contact McElroy’s Customer Service Department or Sales Representative.
5. Limited web and flange holes may be added. A drawing must accompany the order.
6. Zees and Cees may have extra holes - these are used for alternate bolting patterns.
7. Sag rod holes, when requested, are located at the center of the Cee or Zee length, and at the center of the section depth. A drawing must accompany orders for other hole locations.
8. For lengths less than 8’ that require punching, contact McElroy’s Customer Service Department.
9. Round holes are 5/8” diameter, slots are 5/8” x 3/4”.
10. Holes are punched to accommodate 1/2” diameter bolts.
11. Center hole all plants except Ashburn and Sunnyvale.
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.

**CEES AND ZEES**

**SUBSTRUCTURAL INFORMATION**

**STANDARD PUNCHING PATTERNS ORDER INFORMATION**

**CEES AND ZEES**

**SIMPLE SPAN**

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**

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.

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

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

**FLANGE BRACE HOLES - IF REQUESTED**

**FLANGE HOLES**

**1/4"**

**2"**

**4"**

**2'- 2"**

**1 3/4"**

**1 1/4"**

**3" STD.**

**2 1/2" ALT.**

**2'- 2"**

**4"**

**FLANGE HOLES**

**FLANGE BRACE HOLES - IF REQUESTED**

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**FLANGE HOLES**

All Plants Except Ashburn and Sunnyvale

Ashburn and Sunnyvale Plants Only

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**SUBSTRUCTURAL INFORMATION**

**STANDARD PUNCHING PATTERNS ORDERING INFORMATION**

**CEES AND ZEES**

**MAX LAP**

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**

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:**
**SUBSTRUCTURAL INFORMATION**

**PUNCHING INFORMATION**

* SIMPLE SPAN PUNCH

```
1 3/4”  2’ 2”
```

* SHORT LAP PUNCH

```
1 3/4”  4”  2’ 2”
```

* LONG LAP PUNCH

```
1 3/4”  10”  4”  10”  1’ 4”
```

* MAX LAP PUNCH

```
1 3/4”  1’ 10”  4”  1’ 10”  4”
```

* SUPER LAP PUNCH

```
1 3/4”  8”  2’ 2”  4”  2’ 2”  8”
```

* Holes shown are for members less than 10” in depth. See page 2 for 10” or deeper.
* 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

* Holes shown are for members less than 10” in depth. See page 2 for 10” or deeper.
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.

Hat and Channel

<table>
<thead>
<tr>
<th>Section</th>
<th>Dimension</th>
<th>Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hat</td>
<td>1 3/4” x 1 1/2”</td>
<td>16</td>
</tr>
<tr>
<td>Hat</td>
<td>1 3/4” x 1 1/2”</td>
<td>18</td>
</tr>
<tr>
<td>Hat</td>
<td>1 3/4” x 1 1/2”</td>
<td>20</td>
</tr>
<tr>
<td>Channel</td>
<td>1 5/8” x 1 7/16”</td>
<td>16</td>
</tr>
<tr>
<td>Channel</td>
<td>1 5/8” x 1 7/16”</td>
<td>18</td>
</tr>
</tbody>
</table>

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

- MSG 2
  - 3/4” x 2” x 5 1/4”
  - 7/8”
  - 18, & 20 Gauge
  - 7/8” x 5 1/4”
  - Galvanized
  - Minimum length is 13’
  - Maximum length is 24’

- MSG 3
  - 3/4” x 2” x 1 1/4”
  - 6”
  - 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**

**CEES AND ZEE CLIPS**

### Hat Channel

<table>
<thead>
<tr>
<th>Hat Channel</th>
<th>Dimension</th>
<th>GA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Primed Hat Channel</td>
<td>3” x 1.0069”</td>
<td>14</td>
</tr>
<tr>
<td>Red Primed Hat Channel</td>
<td>4” x 1.0069”</td>
<td>14</td>
</tr>
<tr>
<td>Red Primed Hat Channel</td>
<td>6” x 1.0069”</td>
<td>14</td>
</tr>
<tr>
<td>Red Primed Hat Channel</td>
<td>9” x 1.0069”</td>
<td>14</td>
</tr>
<tr>
<td>Galvanized Hat Channel</td>
<td>6” x 1.0069”</td>
<td>14</td>
</tr>
<tr>
<td>Galvanized Hat Channel</td>
<td>9” x 1.0069”</td>
<td>14</td>
</tr>
</tbody>
</table>

### 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 #: 76820

#### 3 1/4” x 7 1/4” x 3/16” x 0’ - 5 3/4”

- WT. = 3.52
- Item #: 76830

#### 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

- Manufactured in Clinton, Illinois.
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.
- 5" to 9" web gets standard 2 hole punch (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).
- 13" 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".
- Flange size options vary from 2" to 4".
- 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 - 65' 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 - standard 2 hole punch (Example: 8" web has 2-4-2 pattern).
- 10" web with 2", 2 1/2", 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).
- 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 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", 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).
- Minimum length - 5'. Maximum length - 45' when rollformed.
- 26' maximum length for special press broke purlins.

**SPECIAL CEE AND ZEE**
- Confirm critical dimensions.
- Formula: web + flange + flange + 15/16" = coil girth.
- Contact a McElroy Representative regarding special punching.
CORPORATE OFFICE
1500 HAMILTON RD.
BOSSIER CITY, LA 71111

MANUFACTURING LOCATIONS

ADELANTO, CA   ASHBURN, GA   BOSSIER CITY, LA
HOUSTON, TX   LEWISPORT, KY   MARSHALL, MI
PEACHTREE CITY, GA   SUNNYVALE, TX

CLINTON, IL   DIAMOND, MO
MAUSTON, WI   MERKEL, TX
WINCHESTER, VA

McELROY METAL

SERVICE CENTER

17031 Koala Road
Adelanto, CA 92301
1007 Wilso Dr.
Baltimore, MD 21223
1500 Hamilton Rd.
Bossier City, LA 71111

3052 Yadkin Road
Chesapeake, VA 23323
3215 Highway 59
Diamond, MO 64840
390 N. Valley Dell Dr.
Fenton, MO 63026

409 Lovejoy Road
Ft. Walton Beach, FL 32548
1440 Aldine Bender Road
Houston, TX 77032
10504 E. 59th Street
Indianapolis, IN 46236

9435 US Hwy. 60 W.
Lewisport, KY 42351
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
5123 Terminal Dr.
McFarland, WI 53558
7450 Tower Street
Richland Hills, TX 76118

8200 Berry Ave. Suite 100
Sacramento, CA 95828
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

Website: www.mcelroymetal.com   E-mail: info@mcelroymetal.com

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