

## SOLDER

Choose from Canfield or Amerway Brands of solder. You get full tin content and no short spools. Most people have definite preferences for their solder. These companies produce quality solder, and are widely accepted throughout the stained glass industry. Most people just starting out in stained glass achieve good results using 60/40 or 63/37 with their lower melting points.

### Amerway Solder

AMERWAY is a leading national producer of quality metals for the electronics, jewelry, and stained glass fields. Amerway has taken their abilities in the specialty metals field and produced a high quality solder that is very cost effective.



**SAPPHIRE 60/40 SOLDER (#MET 6040A)** is 60% tin and the balance lead. A consistent and smooth flowing solder. 60/40 solder is the best selling alloy in the stained glass industry. Melts at 372°F, solidifies at 361°F. The "pasty range" (most solders melt at a higher temperature than they freeze at ... the difference between these figures is the pasty range) of 60/40 is smaller than that of 50/50, resulting in a smoother bead.



**JUBILEE 63/37 SOLDER (#MET 6337A)** is "eutectic" ... in other words, it freezes at the same temperature it melts at (361°F). It reduces the chance of lumpy solder lines. The best for decorative soldering or complicated foil projects.



**ONYX 50/50 SOLDER (#MET 5050A)**, while not widely used, is often preferred because of its lower cost. Since it has a higher melting point (melts at 413°F, solidifies at 361°F) it is not recommended for lead came work, but some people prefer to solder the back side of their foiled work with 50/50 first, then solder the front side with 60/40. The difference in melting points helps eliminate solder "run-thru" to the back side.



### EMERALD 97/3 LEAD FREE SOLDER

(#MET EMERALD), a cost effective alternative for lead free stained glass work that flows similar to 50/50 solder. 97% Tin, 3% Copper alloy. Melts at about 446°F, so use a 100 watt iron.



### RUBY 97/2.75/.25 LEAD FREE SOLDER

(#MET RUBY), a cost effective alternative for lead free stained glass work. 97% Tin, 2.75% Copper, .25% Silver alloy. The addition of silver greatly improves the flow characteristics, lowers the melting point and provides greater tensile strength. Melts at about 442°F.



### TOURMALINE 99.3/0.70 LEAD FREE SOLDER

(#MET TOURM), an alloy of 99.3% Tin, 0.7% Copper + secret ingredients improve fluidity and leave a high sheen finish. Melts at about 445°F.



### Canfield Solder

CANFIELD SOLDER has been the industry standard for decades. Canfield has pioneered many new solders specifically for the stained glass industry. Used by professional studios across the country.



**60/40 SOLDER (#MET 6040C)** by Canfield has no competition for ease of flow and silvery finish. Found in professional studios everywhere. Promoted heavily for new hobbyists because of its outstanding workability. Melts at 376°F, solidifies 361°F.

**CANFIELD ULTIMATE SOLDER (#MET ULT)** is a patented formula with over 62% tin content. This solder has the "instant freeze" of 63/37 with improved melting and flow. Works outstanding with copper foil, a great solder for beginners. Melts and solidifies at 360°F.

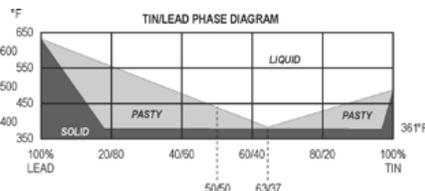
**50/50 SOLDER (#MET 5050C)** from Canfield is made with special care and has an extra bit of antimony added to enhance flow characteristics. Many people prefer Canfield's 50/50 to other brands of 60/40. Melts at 421°F, solidifies at 361°F.

**QUICK SET SOLDER (#MET QUIK SET)** has the flow characteristics of 60/40 solder and the instant freeze of 63/37, all at a lower price. Canfield has sought a patent on this unique formula. Many 60/40 users have switched to this less expensive alloy. Melts at 392°F, solidifies at 361°F.

**SILVERGLEEM\* (#MET SILVER)** is truly bright and silver. Best for working with jewelry because of its high silver content (4%) and **no-lead** formulation. SOLD ON 1/2 POUND SPOOLS ONLY! Melts at 430°F, flows and works like 50/50.

**CANFIELD DGS LEAD FREE SOLDER\* (#MET DGS)** a **lead free** alloy that is gaining wide acceptance in the market due to superior flow characteristics and a bright finish. A cost effective and workable alternative for people (especially expectant women and schools) who have reservations about the lead content in their solder. Alloy of Tin, Copper, Silver, Antimony & Bismuth. Melting point is 490°F, so use a 100 watt iron. Solidifies at 415°F.

**SOLDER MAGIC ACTION TIN (#0678)** is one of those products that once you try it, you'll ask "Where has this been all of my life?". Perfect for tinning vase caps, copper or brass filigrees, copper foil overlays and more. Solder Magic Action Tin is powdered solder suspended in a thin paste flux. Simply stir, apply with flux brush and hit it with your iron. Your piece is instantly tinned and ready to go! Sold in an 8 oz jar. It really works wonders!



**\*HELPFUL HINT:** Keep in mind that Lead Free solders will not accept Copper Patina.

**COPPER FOIL**

Venture makes the most widely accepted foil for stained glass. The copper alloy has high tensile strength with a soft temper. This makes for a superior foil, easy to work with and unmatched in the art glass market. Sold in 36 yd rolls.

**MASTERFOIL** has an extra thick, heat resistant adhesive providing quick stick initial tack and greater bonding power. MasterFoil is made in three thicknesses:

- **1.5 MIL FOIL** is the most popular thickness in the US. If you use a foiling machine or hand foiler, use 1.5 mil foil for best results. The preferred foil for lampshade work. Comes on a roll with red core.
- **1.25 and 1.0 MIL FOILS** are thinner and fold over the edge easier. Thinner foil is often easier for beginners. 1.25 mil foil comes on roll with orange core, 1.0 mil foil rolls have purple cores.

MasterFoil *PLUS*



**VENTURE SPECIALTY FOIL** includes colored foils, New Wave foil and copper foil sheets.

Color-backed foil was developed to overcome the copper edge that shows from the back side of your work when using clear glass or mirror.

- **BLACK BACKED FOIL** is used when you use black patina.
- **SILVER BACKED FOIL** is used when you leave the solder silver.
- **NEW WAVE FOIL** has a scalloped edge and is used for decorative solder beads and borders. Available as copper, silvered and black backed. Approx 5/16" wide at the widest point.
- **SHEET FOIL (#0738 – Copper on both sides -OR- #0538 – Black-backed)** comes in 12x12" squares. Cuts easily with a Proedge knife to make foil overlays, cut custom width foil, etc. 1.25 mil.

VentureTape



Foil colors shown on Venture New Wave Foil

**COPPER FOIL**

Please order using the catalog number shown below each style of foil for the size you need.

| SIZE     | 1.5 MIL MASTERFOIL | 1.25 MIL MASTERFOIL | 1 MIL MASTERFOIL | BLACK BACK FOIL | SILVER BACK FOIL |
|----------|--------------------|---------------------|------------------|-----------------|------------------|
| 5/32"    | Not Avail          | Not Avail           | #0640            | Not Avail       | Not Avail        |
| 3/16"    | #0731              | #0651               | #0641            | #0531           | #0631            |
| 7/32"    | #0732              | #0652               | #0642            | #0532           | #0632            |
| 1/4"     | #0733              | #0653               | #0643            | #0533           | #0633            |
| 5/16"    | #0734              | Not Avail           | Not Avail        | #0534           | #0634            |
| 3/8"     | #0735              | Not Avail           | Not Avail        | #0535           | #0635            |
| 1/2"     | #0736              | Not Avail           | Not Avail        | #0536           | #0636            |
| NEW WAVE | #0737              | Not Avail           | Not Avail        | #0537           | #0637            |

**Foiling Accessories**

**HAND FOILERS** and **FOIL CRIMPER** from Glastar. These tools perfectly center the foil on the edge of your glass. Hand Foilers don't fold the foil over the edge, but center the foil on the edge. For Hand Foilers order for the size foil you use:

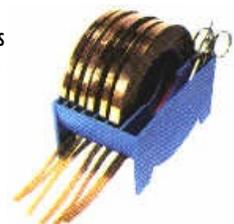
- **3/16" Hand Foiler (#0825)**
- **7/32" Hand Foiler (#0826)**
- **1/4" Hand Foiler (#0827)**
- **Foil Crimper (#0829)** folds and burnishes



**THE GLASTAR FOILING MACHINE (#0820)** accurately applies your foil to the edge of the glass and folds it over. Can cut your foiling time by nearly half. Accepts 1/4", 7/32" and 3/16" foil (any two rolls at a time).



**COPPER FOIL DISPENSER (#0739)** holds up to 7 rolls of foil, neatly dispensed from slots on the bottom. Keeps foil orderly and tangle free. Works great with Hand Foilers.



See page C-15 for more choices and styles of foil crimpers and burnishers.



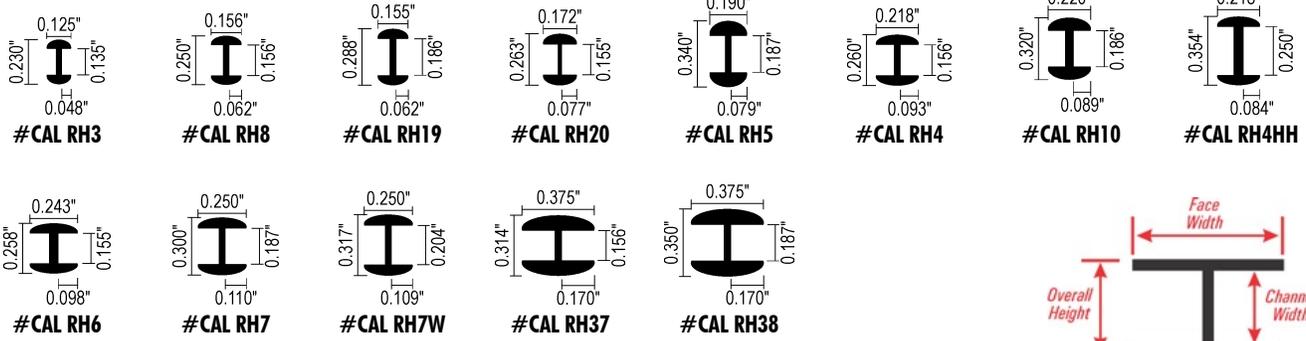
10/30/2019

**LEAD CAME**

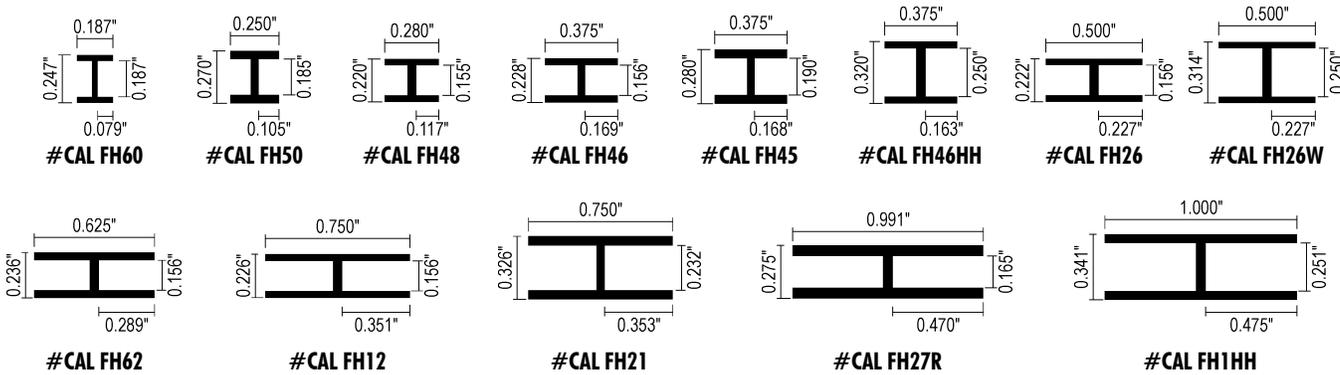
CASCADE starts with 100% pure lead to which they add exacting quantities of Tin, Antimony, Copper and Bismuth to create a lead that is stretchable to the breaking point yet maintains a fine grain strength. Their alloy also prevents oxidation making it easier to solder, allows for a longer shelf life and gives you a brighter finish. The BRITE ALLOY that we stock from Cascade has approximately 4% Antimony giving it a brighter finish and stiffness, which adds strength to your smaller pieces.



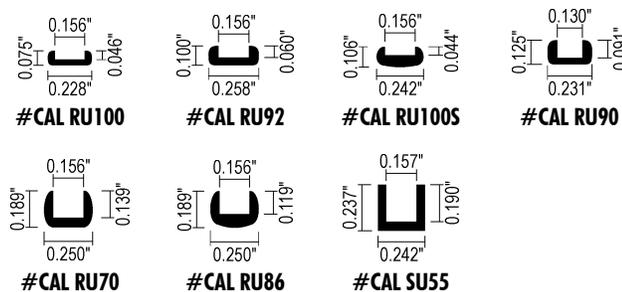
**ROUND H PROFILE LEAD CAMES:**



**FLAT H PROFILE LEAD CAMES:**



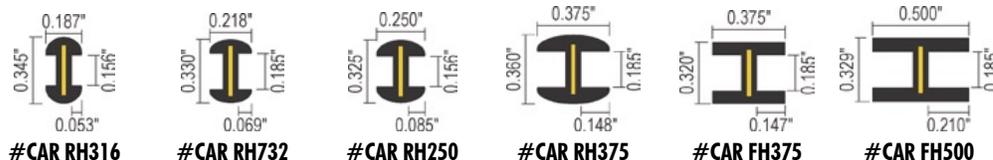
**U PROFILE LEAD CAMES:**



All illustrations approximate actual size. See next page for exact sizes on lead came profiles.

**REFORCE LEAD CAMES:**

Lead came with a strip of brass reinforcement embedded in the heart of the lead came. This unique came provides you with the flexibility to bend around the tightest curves while creating a panel with strength characteristics of a rebarred panel. Can be cut using lead nippers.





## CATALOG NUMBERS FOR CASCADE LEAD CAME

When ordering came, please use the catalog number that corresponds to the quantity (six foot length, 15lb spool, or 45 lb-6ft box) desired.

| SIZE AND DESCRIPTION    | ALLOY    | CAT# 6FT   | 15lb SPOOL    |                  | 45lb 6FT BOX  |                  | DIMENSIONS |         |                |               |
|-------------------------|----------|------------|---------------|------------------|---------------|------------------|------------|---------|----------------|---------------|
|                         |          |            | CAT#          | # OF 6ft LENGTHS | CAT#          | # OF 6ft LENGTHS | FACE       | CHANNEL | OVERALL HEIGHT | CHANNEL DEPTH |
| <b>ROUND "H"</b>        |          |            |               |                  |               |                  |            |         |                |               |
| 1/8" RH                 | #2 - STD | CAL RH3    | CAL RH3-15    | 38               | -             | -                | 0.125      | 0.135   | 0.230          | 0.048         |
| 5/32" RH                | #2 - STD | CAL RH8    | CAL RH8-15    | 33               | -             | -                | 0.156      | 0.156   | 0.250          | 0.062         |
| 5/32" RH - wide channel | #2 - STD | CAL RH19   | CAL RH19-15   | 29               | CAL RH19-45   | 87               | 0.155      | 0.186   | 0.288          | 0.062         |
| 11/64" RH               | #2 - STD | CAL RH20   | CAL RH20-15   | 29               | CAL RH20-45   | 88               | 0.172      | 0.155   | 0.263          | 0.077         |
| 3/16" RH                | #2 - STD | CAL RH5    | -             | -                | CAL RH5-45    | 55               | 0.190      | 0.187   | 0.340          | 0.079         |
| 7/32" RH                | #2 - STD | CAL RH4    | -             | -                | CAL RH4-45    | 75               | 0.218      | 0.156   | 0.260          | 0.093         |
| 7/32" RH - wide channel | #2 - STD | CAL RH10   | -             | -                | CAL RH10-45   | 52               | 0.220      | 0.186   | 0.320          | 0.089         |
| 7/32" RH - high heart   | #2 - STD | CAL RH4HH  | -             | -                | CAL RH4HH-45  | 50               | 0.218      | 0.250   | 0.354          | 0.084         |
| 1/4" RH                 | #2 - STD | CAL RH6    | -             | -                | CAL RH6-45    | 61               | 0.243      | 0.155   | 0.258          | 0.098         |
| 1/4" RH                 | #2 - STD | CAL RH7    | -             | -                | CAL RH7-45    | 57               | 0.250      | 0.187   | 0.300          | 0.110         |
| 1/4" RH - wide channel  | #2 - STD | CAL RH7W   | -             | -                | CAL RH7W-45   | 53               | 0.250      | 0.204   | 0.317          | 0.109         |
| 3/8" RH                 | #2 - STD | CAL RH37   | -             | -                | CAL RH37-45   | 32               | 0.375      | 0.156   | 0.314          | 0.170         |
| 3/8" RH - wide channel  | #2 - STD | CAL RH38   | -             | -                | CAL RH38-45   | 30               | 0.375      | 0.187   | 0.350          | 0.170         |
| <b>FLAT "H"</b>         |          |            |               |                  |               |                  |            |         |                |               |
| 3/16" FH                | #2 - STD | CAL FH60   | -             | -                | CAL FH60-45   | 96               | 0.187      | 0.187   | 0.247          | 0.079         |
| 1/4" FH                 | #2 - STD | CAL FH50   | -             | -                | CAL FH50-45   | 55               | 0.250      | 0.185   | 0.270          | 0.105         |
| 9/32" FH                | #2 - STD | CAL FH48   | -             | -                | CAL FH48-45   | 63               | 0.280      | 0.156   | 0.220          | 0.117         |
| 3/8" FH                 | #2 - STD | CAL FH46   | -             | -                | CAL FH46-45   | 46               | 0.375      | 0.156   | 0.228          | 0.169         |
| 3/8" FH - wide channel  | #2 - STD | CAL FH45   | -             | -                | CALFH45-45    | 35               | 0.375      | 0.190   | 0.280          | 0.168         |
| 3/8" FH - high heart    | #2 - STD | CAL FH46HH | -             | -                | CAL FH46HH-45 | 40               | 0.375      | 0.250   | 0.320          | 0.163         |
| 1/2" FH                 | #2 - STD | CAL FH26   | -             | -                | CAL FH26-45   | 40               | 0.500      | 0.156   | 0.222          | 0.227         |
| 1/2" FH - wide channel  | #2 - STD | CAL FH26W  | -             | -                | CAL FH26W-45  | 35               | 0.500      | 0.250   | 0.314          |               |
| 5/8" FH                 | #2 - STD | CAL FH62   | -             | -                | CAL FH62-45   | 28               | 0.625      | 0.156   | 0.236          | 0.289         |
| 3/4" FH                 | #2 - STD | CAL FH12   | -             | -                | CAL FH12-45   | 25               | 0.750      | 0.156   | 0.226          | 0.351         |
| 3/4" FH - wide channel  | #2 - STD | CAL FH21   | -             | -                | CAL FH21-45   | 20               | 0.750      | 0.232   | 0.326          | 0.353         |
| 1" FH                   | #2 - STD | CAL FH27R  | -             | -                | CAL FH27R-45  | 24               | 0.991      | 0.165   | 0.275          | 0.470         |
| 1" FH - high heart      | #2 - STD | CAL FH1HH  | -             | -                | CALFH1HH-45   | 16               | 1.000      | 0.251   | 0.341          | 0.475         |
| <b>U CHANNEL</b>        |          |            |               |                  |               |                  |            |         |                |               |
| 5/64" U                 | #2 - STD | CAL RU100  | CAL RU100-15  | 59               | -             | -                | 0.075      | 0.156   | 0.228          | 0.046         |
| 3/32" U                 | #2 - STD | CAL RU92   | CAL RU92-15   | 33               | -             | -                | 0.100      | 0.156   | 0.258          |               |
| 3/32" U                 | #2 - STD | CAL RU100S | CAL RU100S-15 | 33               | -             | -                | 0.106      | 0.156   | 0.242          | 0.044         |
| 1/8" U                  | #2 - STD | CAL RU90   | CAL RU90-15   | 36               | -             | -                | 0.125      | 0.130   | 0.231          | 0.091         |
| 3/16" U                 | #2 - STD | CAL RU70   | CAL RU70-15   | 25               | CAL RU70-45   | 76               | 0.189      | 0.156   | 0.250          | 0.139         |
| 3/16" U                 | #2 - STD | CAL RU86   | CAL RU86-15   | 22               | CAL RU86-45   | 57               | 0.189      | 0.156   | 0.250          | 0.119         |
| 7/32" Flat U            | #2 - STD | CAL SU55   | -             | -                | CAL SU55-45   | 60               | 0.237      | 0.157   | 0.242          | 0.190         |
| <b>REFORCE</b>          |          |            |               |                  |               |                  |            |         |                |               |
| 3/16" Round H REFORCE5  | #2 - STD | CAR RH316  | -             | -                | CAR RH316-45  | 39               | 0.187      | 0.156   | 0.345          | 0.053         |
| 7/32" Round H REFORCE10 | #2 - STD | CAR RH732  | -             | -                | CAR RH732-45  | 42               | 0.218      | 0.185   | 0.330          | 0.069         |
| 1/4" Round H REFORCE6   | #2 - STD | CAR RH250  | -             | -                | CAR RH250-45  | 37               | 0.250      | 0.156   | 0.325          | 0.085         |
| 3/8" Round H REFORCE 51 | #2 - STD | CAR RH375  | -             | -                | CAR RH375-45  | 22               | 0.375      | 0.185   | 0.360          | 0.148         |
| 3/8" Flat H REFORCE45   | #2 - STD | CAR FH375  | -             | -                | CAR FH375-45  | 24               | 0.375      | 0.185   | 0.320          | 0.148         |
| 1/2" Flat H REFORCE26   | #2 - STD | CAR FH500  | -             | -                | CAR FH500-45  | 18               | 0.500      | 0.185   | 0.329          | 0.210         |

**METAL GAMES**

Metal came is used wherever strength is necessary. Metal came is lighter than lead, but much more rigid. This is an important consideration for windows with beveled glass, as bevels require more support. The metal came can be the finished frame as well. Cut with a fine-tooth hacksaw, or more quickly with Gryphon's Came Saw (see page C-3). For curved work, metal came can be bent to shape easily with the Zinc and Brass Roller on page D-6.

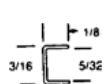


**ZINC CAME** is the same silver tone as both lead and solder.

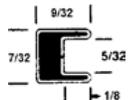
**BRASS CAME** adds a touch of elegance to any finished piece. The bright gold effect is stunning. Brass came cuts, shapes and solders like zinc came. Color your solder joints with a Brass Paint Pen (#0932) on page J-5.

**COPPER CAME** has the strength of zinc and you eliminate Brite Copper Patina (#0791) on page E-1.

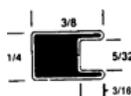
CAME is sold in individual six foot lengths or in 22 pound box lengths per 22 pound box is also shown.



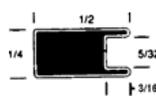
#CAZ U170 – ZINC  
#CAB U170 – BRASS  
#CAC U170 – COPPER



#CAZ U932 – ZINC  
#CAB U932 – BRASS  
#CAC U932 – COPPER



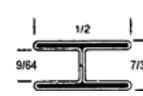
#CAZ U375 – ZINC  
#CAB U375 – BRASS  
#CAC U375 – COPPER



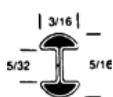
#CAZ U500 – ZINC  
#CAB U500 – BRASS



#CAZ U750 – ZINC



#CAZ FH500 – ZINC  
#CAB FH500 – BRASS



#CAZ RH316 – ZINC  
#CAB RH316 – BRASS  
#CAC RH316 – COPPER



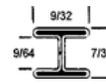
#CAZ RH732 – ZINC



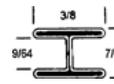
#CAZ RH250 – ZINC  
#CAB RH250 – BRASS



#CAZ FH732 – ZINC  
#CAB FH732 – BRASS



#CAZ FH932 – ZINC  
#CAB FH932 – BRASS  
#CAC FH932 – COPPER



#CAZ FH375 – ZINC  
#CAB FH375 – BRASS

**CATALOG NUMBERS FOR ZINC/BRASS/COPPER CAME**

When ordering came, please use the catalog number that corresponds to the quantity (six foot length or 22 lb box) desired.

| SIZE AND DESCRIPTION           | ZINC      |                |         | BRASS      |                |         | COPPER    |                |         |
|--------------------------------|-----------|----------------|---------|------------|----------------|---------|-----------|----------------|---------|
|                                | CAT # 6ft | CAT # 22lb BOX | PCS/BOX | CAT # 6ft  | CAT # 22lb BOX | PCS/BOX | CAT # 6ft | CAT # 22lb BOX | PCS/BOX |
| <b>ROUND "H" CROSS SECTION</b> |           |                |         |            |                |         |           |                |         |
| 3/16in Round H                 | CAZ RH316 | CAZ RH316-22   | 80      | CAB RH316* | CAB RH316-22*  | 88      | CAC RH316 | CAC RH316-22   | 100     |
| 7/32in Round H                 | CAZ RH732 | CAZ RH732-22   | 67      | —          | —              | —       | —         | —              | —       |
| 1/4in Round H                  | CAZ RH250 | CAZ RH250-22   | 58      | CAB RH250* | CAB RH250-22*  | 69      | —         | —              | —       |
| <b>FLAT "H" CROSS SECTION</b>  |           |                |         |            |                |         |           |                |         |
| 7/32in Flat H                  | CAZ FH732 | CAZ FH732-22   | 79      | CAB FH732* | CAB FH732-22*  | 74      | —         | —              | —       |
| 9/32in Flat H**                | CAZ FH932 | CAZ FH932-22   | 53      | CAB FH932  | CAB FH932-22   | 71      | CAC FH932 | CAC FH932-22   | 66      |
| 3/8in Flat H                   | CAZ FH375 | CAZ FH375-22   | 42      | CAB FH375  | CAB FH375-22   | 47      | —         | —              | —       |
| 1/2in Flat H                   | CAZ FH500 | CAZ FH500-22   | 34      | CAB FH500  | CAB FH500-22   | 44      | —         | —              | —       |
| <b>FLAT "U" CROSS SECTION</b>  |           |                |         |            |                |         |           |                |         |
| 1/8in Flat U                   | CAZ U170  | CAZ U170-22    | 184     | CAB U170   | CAB U170-22    | 231     | CAC U170  | CAC U170-22    | 222     |
| 9/32in Flat U**                | CAZ U932  | CAZ U932-22    | 65      | CAB U932   | CAB U932-22    | 72      | CAC U932  | CAC U932-22    | 86      |
| 3/8in Flat U                   | CAZ U375  | CAZ U375-22    | 46      | CAB U375   | CAB U375-22    | 47      | CAC U375  | CAC U375-22    | 43      |
| 1/2in Flat U                   | CAZ U500  | CAZ U500-22    | 38      | CAB U500   | CAB U500-22    | 38      | —         | —              | —       |
| 3/4in Flat U                   | CAZ U750  | CAZ U750-22    | 30      | —          | —              | —       | —         | —              | —       |

Note: Piece count per box is approximate and may vary. \* These items are made from a soft alloy brass for easier bending. \*\* Slightly larger than 1/4".

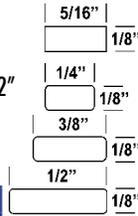
Rebar

REINFORCING BAR (also known as "rebar") adds strength and rigidity to your work.

ZINC REBAR is available in a 1/8 x 5/16" cross section. Softer and easier to bend than tinned steel.

TINNED STEEL REBAR comes in 1/8 x 1/4", 1/8 x 3/8" and 1/8 x 1/2" cross sections. Solders easily to your work, or use with tie wires.

Rebar can be bent in a vise or with pliers to follow your lead lines. Stronger than zinc rebar.



CATALOG NUMBERS FOR REBAR

When ordering rebar, please use the catalog number that corresponds to the quantity (six foot length or Full Box) desired.

| SIZE & DESCRIPTION | 6FT CAT# | FULL BOX CAT# | PCS PER BOX          |
|--------------------|----------|---------------|----------------------|
| <b>ZINC REBAR</b>  |          |               | <b>FULL BOX 22lb</b> |
| 1/8 x 5/16"        | #1740    | #1740-22      | 32                   |
| <b>STEEL REBAR</b> |          |               | <b>FULL BOX 22lb</b> |
| 1/8 x 3/8"         | #17410   | #17410-22     | 24                   |
| 1/8 x 1/2"         | #17411   | #17411-22     | 18                   |
| 1/8 x 1/4"         | #17412   | #17412-22     | 37                   |

Note that piece count is approximate and may vary.

Hidden Reinforcement

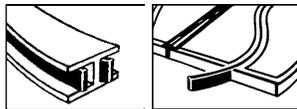
Rebar provides strong (but visible) reinforcement. To preserve the aesthetics of your work, use hidden reinforcement, adding strength without interfering with appearance.

RESTRIP is a 5/32" wide, 10 mil thick strip of copper which is easily concealed in your windows. Run this stripping between pieces of foiled glass or hide this reinforcement inside the channel of lead came. You run it down the middle of the came, next to the came's heart. This method of reinforcement is ideal for panels not easily reinforced with rebar (ie, anything with curves). Available in:

- 25 foot coils (#1742)
- 100 foot coils (#1743)

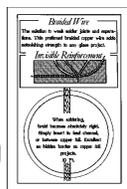


STRONG LINE (#0519) by Morton Glass Works is a heavy duty version of Restrip. Strong Line is 20 mil copper coated STEEL stripping which is used the same as Restrip above. Coil is 25' long, in a convenient dispenser.



BRAIDED WIRE is especially useful for lampshades or other three dimensional projects, as it follows the curve of your lamp better than reinforcing strip. Also makes a neat, uniform border on free-form copper foil projects. 1/8x1/32" cross section. Available as:

- 10 foot coils (#1755)
- 100 foot spool (#1755-100)



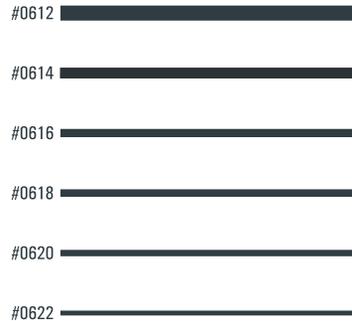
Tinned Copper Wire

TINNED COPPER WIRE is used as accents and detail lines. The heavier wire (12 gauge) can be used for stems for flowers. Use lighter wire (22 gauge) for fine details on flower petals or cat whiskers. The wire is coated with a thin layer of solder to match your piece. It solders easily. The wire is soft tempered so it bends to shape easily.

Tinned Wire is sold on 1 lb and 1/4 lb spools. See the chart below for the correct Catalog Number.

PRE-TWISTED WIRE – 16 and 20 gauge wire are sold in 5, 25 and 100 ft lengths, ready to use as accents on angels, suncatchers and more!

PRE-TWISTED BRASS WIRE – made from 2 strands of square 20 ga brass wire provides a sparkling gold finish for your projects that is perfect for angel halos, flower stems and other details. Sold in 5 & 25 ft lengths.



PRE-TWISTED TINNED COPPER WIRE



PRE-TWISTED BRASS WIRE

Illustrations shown approximate actual size.

| CATALOG NUMBERS FOR TINNED WIRE |             |                |                         |                   |                           |
|---------------------------------|-------------|----------------|-------------------------|-------------------|---------------------------|
| GAUGE                           | DIA OF WIRE | 1LB SPOOL CAT# | APPROX. FT / 1 LB SPOOL | 1/4 LB SPOOL CAT# | APPROX. FT / 1/4 LB SPOOL |
| 12                              | .0808"      | 0612-S         | 53                      | 06120             | 13                        |
| 14                              | .0641"      | 0614-S         | 83                      | 06140             | 20                        |
| 16                              | .0508"      | 0616-S         | 131                     | 06160             | 32                        |
| 18                              | .0403"      | 0618-S         | 201                     | 06180             | 50                        |
| 20                              | .0320"      | 0620-S         | 312                     | 06200             | 78                        |
| 22                              | .0253"      | 0622-S         | 443                     | 06220             | 110                       |

| PRE-TWISTED WIRE FOR SUNCATCHERS      |                |                 |                  |
|---------------------------------------|----------------|-----------------|------------------|
| GAUGE                                 | 5' LENGTH CAT# | 25' LENGTH CAT# | 100' LENGTH CAT# |
| <b>PRE-TWISTED TINNED COPPER WIRE</b> |                |                 |                  |
| 16                                    | 0616TF         | 0616TS          | 0616TL           |
| 20                                    | 0620TF         | 0620TS          | 0620TL           |
| <b>PRE-TWISTED BRASS WIRE</b>         |                |                 |                  |
| 20                                    | 06005          | 060025          | not avail        |

Tools For Metal Came Work

ZINC AND BRASS ROLLER (#1750) bends your brass, copper or zinc came to even, precise curves without crimping or kinking. Comes with specially designed roller dies for accurate bending of both "U" and "H" comes. Constructed with cast aluminum base and machined dies.



THE 90° LI'L NOTCHER (#1751) is a cutting tool that puts a notch in 1/8" U brass or zinc channel. It allows the came to go around sharp 90° corners without puckering. It saves you having to cut or miter the channel to make corners when using 1/8" channel for borders.

