

**8090-1096**

**Pattern Paper**

Heavy duty Professional pattern paper. 40" wide x 8' long, "granite" finish, ivory color.

**DecoColor™**

**Opaque Paint Marker**

Permanent color for metal or glass. Use to draw patterns on glass, to touch up solder joints to match metal color, or "paint" details on glass. Available in an extra fine tip, fine tip or broad tip.



**Extra Fine Tip:**

- 8521-B141** Black
- 8521-G141** Gold
- 8521-S141** Silver
- 8521-W141** White



**Fine Tip**

- 8522-B141** Black
- 8522-C141** Copper
- 8522-G141** Gold
- 8522-S141** Silver
- 8522-W141** White

**Broad Tip**

- 8525-G141** Gold

**Sanford SHARPIE**

**Marking Pens**

Permanent Marking Pen for metal or glass. Marker style, bullet point, fine tip.



- 8530-B086** Black
- 8530-R086** Red

**8091-1464**

**Carbon Paper**

Heavy-duty pencil carbon paper. High quality, reusable sheets, 26" X 39". Use to transfer designs onto pattern paper.

**8408-0738**

**Diamond Bright Projector**

Will take originals up to 6" x 6" in it's bottom tray and enlarge from 3/4 to 24 times original size with no distortion. The easy to focus barrel locks into place with the twist of a thumbscrew. This metal constructed projector is cooled with an internal rotary fan. Requires 2 light bulbs; up to 150 watt each.



**Hartco**

**Sandmask**

Adhesive backed vinyl, especially made for heavy-duty sandblasting and acid etching. Available in two thicknesses and three widths. Sold in rolls or three foot lengths.

**10 mil thick:**

Cat. No.	Width
<b>310-15098</b>	<b>15" wide</b>
<b>310-25098</b>	<b>25" wide</b>
<b>310-30098</b>	<b>30" wide</b>

**35 mil thick:**

Cat. No.	Width
<b>135-15098</b>	<b>15" wide</b>
<b>135-25098</b>	<b>25" wide</b>
<b>135-30098</b>	<b>30" wide</b>



**1690-0145**

**Non-Skid Strip**

Cork and rubber strip with adhesive back. Useful on the back of a straight edge. 3/4" x 36"



**Mark-Stay II**

**8526-1210**

Extra heavy duty professional mark preserver for glass grinding, sawing and beveling. After marking glass with marker pen, apply a thin film of Mark Stay with finger. Proceed to grind. Cleans with soap and water, or flux cleaner. 1 Fluid Oz.



**Panda Pencil**

**EZ-TRACE**

**Pattern Pens**

Write on glass easily to transfer patterns.

- 8519-1342** Black



- 8520-1342** White

# Foil

All rolls are 36 yards unless noted otherwise. The thicker the mil, the more natural reinforcement the foil brings to your project.

## COPPER FOIL

Copper (both sides) can be used on opalescent glass where the adhesive side cannot be seen or on cathedral glass where the solder will be patinaed copper (to match the visible copper adhesive side). Three thicknesses are available: 1.0, 1.5, & 3 mil.



Cat. No.	Width	Cat. No.	Width
<b>1 MIL:</b>		<b>1.5 MIL:</b>	
1649-0145	5/32"	1654-0145	3/16"
1650-0145	3/16"	1655-0145	7/32"
1651-0145	7/32"	1656-0145	1/4"
1652-0145	1/4"	1657-0145	3/8"
1660-0145	5/16"		
1653-0145	3/8"		
1661-0145	1/2"		

## BLACK BACK FOIL

Black Back Foil is used with cathedrals, mirror and clears where the adhesive back side is visible and the solder will be patinaed black. Available in 1.25 mil thickness only.



Cat. No.	Width
1662-0145	3/16"
1663-0145	7/32"
1664-0145	1/4"

## SILVER BACK FOIL

Silver Back Foil is used with cathedrals, mirror and clears where the adhesive backside is visible and the solder will be left natural (silver). Available in 1.5 mil thickness only.



Cat. No.	Width
1676-0145	3/16"
1677-0145	7/32"
1678-0145	1/4"

## COPPER FOIL SHEETS

Sheet foil enables the user to stripcut foil to any width desired. Can also be used for filigree overlays and special creative effects.

**1670-0145** 12" x 12" Foil Sheet - Self adhesive, 1.25 mil thick. Heat resistant acrylic adhesive on ductile copper foil. By Venture Tape.

# FOIL PRODUCTS BY VENTURE TAPE

## SILVERED (BOTH SIDES) FOIL

Silvered Foil is used in a similar application as silver back. The difference is that the foil is silver on both sides of the tape. Available in 1.5 mil thickness only.



Cat. No.	Width
1673-0145	3/16"
1674-0145	7/32"
1675-0145	1/4"

## NEW WAVE FOIL

Decorative scalloped "wave" along one edge. An easy way to give visual interest to your project. All New Wave Foil is 1.5 mil thick and 5/16" wide. Available in FIVE types:

Cat. No.	Type
1665-BB45	Black Back
1665-CP45	Copper (both sides)
1665-SB45	Silver Back



Black Back

Copper (both sides)



Silver Back



**SOLDER**

**50/50**

**Stained Glass Wire Solder**

(50% Tin / 50% Lead)  
For copper foil seams and general purpose use. Available in 1# spools, two brands:  
Avril 50/50 \_\_\_\_\_ **1561-0064**  
Canfield 50/50 \_\_\_\_\_ **1562-0099**

**SilverGleem Wire Solder**

A lead-free solder manufactured with silver. A distinctive solder that adds a rich, luxurious finish to all your stained glass art. Lead-free and non-toxic, it is ideal on jewelry boxes, art pieces and dishes that hold food. SilverGleem has instant freeze. Leave it in it's beautiful natural silver color or buff it to a high sheen. Available in 1/2 and 1# spools. Exclusively by Canfield.  
SilverGleem \_\_\_\_\_ **1569-1299** (1/2 lb.)  
SilverGleem \_\_\_\_\_ **1569-0199** (1 lb.)

**60/40**

**Stained Glass Wire Solder**

(60% Tin / 40% Lead)  
For use on copper foil seams and lead came seams. Offers superior flow over 50/50 with more flow per inch than 50/50. Available in 1# spools, two brands:  
Avril 60/40 \_\_\_\_\_ **1563-0064**  
Canfield 60/40 \_\_\_\_\_ **1564-0099**



**Solder by G.A. Avril: High Quality & Economical**

**63/37 "Ultimate" Wire Solder**

(63% Tin / 37% Lead)  
Premium solder. It goes from solid to liquid and back to solid instantly with no pasty range. Available in 1# spools, two brands:  
Avril 63/37 \_\_\_\_\_ **1565-0064**  
Canfield "Ultimate" \_\_\_\_\_ **1566-0099**

**Pewter-Finish Wire Solder**

This lead-free solder is 100% safe for jewelry, skin contact and food receptacle applications. It has the penetration, solderability and capillary action of 50/50 and maintains a beautiful pewter finish. A unique solder that renders a lightweight, yet strong product with a satin finish seam resembling pewter. Available in 1# spools. Exclusively by Canfield.  
Pewter-Finish \_\_\_\_\_ **1568-0099**

**Quik-Set! Wire Solder**

Sets up quickly and beads instantly with a silvery shine. This solder was developed for stained glass production as well as for the artisan. Available in 1# spools. Exclusively by Canfield.  
Canfield Quik-Set \_\_\_\_\_ **1567-0099**



**Solder by Canfield: Unsurpassed Reputation / Largest Selection**

**TINNED WIRE**

Use to reinforce suncatchers, lampshades and small panels. Available in quarter pound and one pound spools. The smaller "gauge" size, the heavier the wire.



Cat. No.	Gauge	Spool
<b>1633-0704</b>	12	1/4 lb.
<b>1638-0704</b>	12	1 lb.
<b>1630-0704</b>	16	1/4 lb.
<b>1635-0704</b>	16	1 lb.
<b>1631-0704</b>	18	1/4 lb.
<b>1636-0704</b>	18	1 lb.
<b>1632-0704</b>	20	1/4 lb.
<b>1637-0704</b>	20	1 lb.



**MT01-0092 Morton Twister**

Use the Twister to create decorative edge trip from copper wire or lead came. **By Morton Glass Works.**

**Flexible Rebar Strip**

A 10 mil, semi-rigid strip to be used as an unobtrusive structural reinforcement. It is inserted into lead came or soldered between foiled panels. Available in brass or copper - 5/32" wide.

Cat. No	Metal	Length
<b>1687-0426</b>	Brass	25 ft.
<b>1688-0426</b>	Brass	100 ft.
<b>1685-0426</b>	Copper	25 ft.
<b>1686-0426</b>	Copper	100 ft.

**SL25-0092**

**Morton Strong Line™**

A thin (.020") coppered steel strip, used to greatly increase the strength of copper foil or lead channel. The strip height, about the same as most glass is thick (.114"), fits the lead channel and can be used on both sides for reinforcement. Package contains 25 feet.

**By Morton Glass Works.**



**REINFORCEMENT**

**Reinforcing Bars**

**"REBAR", as it is commonly referred to, is available in three solid metals: Steel, Zinc and Brass.**

It can be bent to follow gentle curves of your designs.

Substantially strengthens your larger leaded projects. All pieces are sold in six-foot lengths. When shipped rebar must be shipped in a box considered by UPS as an oversize box. The minimum UPS charges for these oversize boxes is for thirty pounds.



Cat. No.	Size (A" x B")
Tinned Steel Rebar:	
<b>1538-0790</b>	1/4" x 1/8"
<b>1535-0790</b>	3/8" x 1/8"
<b>1536-0790</b>	1/2" x 1/8"

Brass Rebar:	
<b>1535-BRPC</b> (by the piece)	3/8" x 1/8"
<b>1535-BRBX</b> (by the 22# box/29 pcs)	3/8" x 1/8"
<b>1536-BRPC</b> (by the piece)	1/2" x 1/8"
<b>1536-BRBX</b> (by the 22# box/22 pcs)	1/2" x 1/8"

Zinc Rebar:	
<b>1537-PC26</b> (by the piece)	5/16" x 1/8"
<b>1537-BX22</b> (by the 22# box/33 pcs)	5/16" x 1/8"

# Lead Channel

## CASCADE METALS

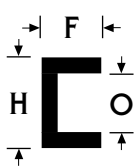
Cascade lead came is made from a very closely controlled alloy that combines a fine grain structure with high strength, so it can be stretched without losing as much shape or strength. Sold in six-foot lengths. When shipped Cascade lead must be shipped in an oversize box. The minimum UPS charges for these oversize boxes is thirty pounds. The number of pieces per factory box are approximate. Sold by the piece or in 45-pound closed factory boxes (excellent history of minimum UPS claim). Approximate number of pieces per 45 pound factory box is listed below.

MEASUREMENTS IN DECIMAL FORM ARE ACTUAL - MEASUREMENTS IN FRACTIONS ARE APPROXIMATE: TO THE NEAREST 1/64".

### Border U Channels

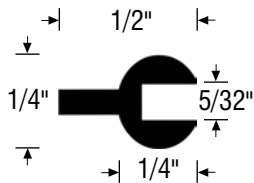
ROUND U:	Cat. No.	Mfg. Code	Alloy	F (Face Width)	O (opening)	H (total Height)	R (Radius)	Sold by:	Pcs/Box	
	<b>1589-PC26</b>	RU-100	#2	.075" (5/64")	.156" (5/32")	.228" (15/64")	1/32"	PIECE		
	<b>1589-BX45</b>	RU-100	#2	.075" (5/64")	.156" (5/32")	.228" (15/64")	1/32"	45# BOX	206	
	<b>1589-SBX6</b>	RU-100	Soft	.075" (5/64")	.156" (5/32")	.228" (15/64")	1/32"	45# BOX	206	
	<b>1597-PC26</b>	RU-98R	#2	.075" (5/64")	.156" (5/32")	.228" (15/64")	1/32"	PIECE		
	<b>1597-BX45</b>	RU-98R	#2	.075" (5/64")	.156" (5/32")	.228" (15/64")	1/32"	45# BOX	165	
	<i>(Decorative Outside Edge- Ribbed)</i>									
	<b>1587-PC26</b>	RU-92	#2	.100" (3/32")	.156" (5/32")	.258" (17/64")	5/64"	PIECE		
	<b>1587-BX45</b>	RU-92	#2	.100" (3/32")	.156" (5/32")	.258" (17/64")	5/64"	45# BOX	99	
	<b>1586-PC26</b>	RU-90	#2	.125" (1/8")	.130" (1/8")	.228" (15/64")	5/32"	PIECE		
	<b>1586-BX45</b>	RU-90	#2	.125" (1/8")	.130" (1/8")	.228" (15/64")	5/32"	45# BOX	109	
	<b>1588-PC26</b>	RU-93	#2	.139" (9/64")	.156" (5/32")	.200" (13/64")	1/8"	PIECE		
	<b>1588-BX45</b>	RU-93	#2	.139" (9/64")	.156" (5/32")	.200" (13/64")	1/8"	45# BOX	85	
	<b>1584-PC26</b>	RU-70	#2	.185" (3/16")	.154" (5/32")	.249" (1/4")	9/64"	PIECE		
	<b>1584-BX45</b>	RU-70	#2	.185" (3/16")	.154" (5/32")	.249" (1/4")	9/64"	45# BOX	76	
	<b>1585-PC26</b>	RU-80	#2	.203" (13/64")	.156" (5/32")	.230" (15/64")	9/64"	PIECE		
	<b>1585-BX45</b>	RU-80	#2	.203" (13/64")	.156" (5/32")	.230" (15/64")	9/64"	45# BOX	66	
<b>1585-SBX6</b>	RU-80	Soft	.203" (13/64")	.156" (5/32")	.230" (15/64")	9/64"	45# BOX	66		

### FLAT U:

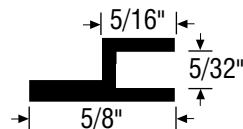


FLAT U:	Cat. No.	Mfg. Code	Alloy	F (Face Width)	O (opening)	H (total Height)	Sold by:	Pcs/Box
	<b>1583-PC26</b>	SU-55	#2	13/64" (.200")	5/32" (.152")	15/64" (.237")	PIECE	
	<b>1583-BX45</b>	SU-55	#2	13/64" (.200")	5/32" (.152")	15/64" (.237")	45# BOX	60
	<b>1601-SPC6</b>	SU-56	Soft	5/64" (.075")	9/64" (.136")	13/64" (.196")	PIECE	
	<b>1601-SBX6</b>	SU-56	Soft	5/64" (.075")	9/64" (.136")	13/64" (.196")	45# BOX	170

### Y Channel



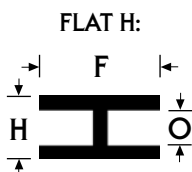
Cat. No.	Mfg. Code	Alloy	Sold by:	Pcs/Box
<b>1590-PC26</b>	TU-500	#2	PIECE	
<b>1590-BX45</b>	TU-500	#2	45# BOX	20



Cat. No.	Mfg. Code	Alloy	Sold by:	Pcs/Box
<b>1600-PC26</b>	SY-600	#2	PIECE	
<b>1600-BX45</b>	SY-600	#2	45# BOX	19

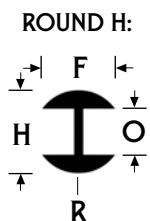
CASCADE METALS

Flat H Channels



Cat. No.	Mfg. Code	Alloy	F (Face Width)	O (opening)	H (total Height)	Sold by:	Pcs/Box
<b>1593-PC26</b>	FH-60	#2	.187" (3/16")	.187" (3/16")	.247" (1/4")	PIECE	
<b>1593-BX45</b>	FH-60	#2	.187" (3/16")	.187" (3/16")	.247" (1/4")	45# BOX	98
<b>1571-PC26</b>	FH-50	#2	.250" (1/4")	.185" (3/16")	.270" (17/64")	PIECE	
<b>1571-BX45</b>	FH-50	#2	.250" (1/4")	.185" (3/16")	.270" (17/64")	45# BOX	57
<b>1594-PC26</b>	FH-48	#2	.280" (9/32")	.156" (5/32")	.220" (7/32")	PIECE	
<b>1594-BX45</b>	FH-48	#2	.280" (9/32")	.156" (5/32")	.220" (7/32")	45# BOX	63
<b>1572-PC26</b>	FH-46	#2	.375" (3/8")	.156" (5/32")	.220" (7/32")	PIECE	
<b>1572-BX45</b>	FH-46	#2	.375" (3/8")	.156" (5/32")	.220" (7/32")	45# BOX	55
<b>1572-WPC6</b>	FH-45	#2	.375" (3/8")	.187" (3/16")	.275" (9/32")	PIECE	
<b>1572-WBX6</b>	FH-45	#2	.375" (3/8")	.187" (3/16")	.275" (9/32")	45# BOX	35
<b>1572-XWPC</b>	FH-44	#2	.375" (3/8")	.25" (1/4")	.337" (23/64")	PIECE	
<b>1572-XWBX</b>	FH-44	#2	.375" (3/8")	.25" (1/4")	.337" (23/64")	45# BOX	35
<b>1573-PC26</b>	FH-26	#2	.500" (1/2")	.156" (5/32")	.220" (7/32")	PIECE	
<b>1573-BX45</b>	FH-26	#2	.500" (1/2")	.156" (5/32")	.220" (7/32")	45# BOX	41
<b>1599-PC26</b>	FH-62	#2	.500" (5/8")	.156" (5/32")	.236" (15/64")	PIECE	
<b>1599-BX45</b>	FH-62	#2	.500" (5/8")	.156" (5/32")	.236" (15/64")	45# BOX	28
<b>1574-PC26</b>	FH-12	#2	.750" (3/4")	.156" (5/32")	.226" (7/32")	PIECE	
<b>1574-BX45</b>	FH-12	#2	.750" (3/4")	.156" (5/32")	.226" (7/32")	45# BOX	27
<b>1574-WPC6</b>	FH-21	#2	.750" (3/4")	.234" (15/64")	.324" (21/64")	PIECE	
<b>1574-WBX6</b>	FH-21	#2	.750" (3/4")	.234" (15/64")	.324" (21/64")	45# BOX	21
<b>1598-PC26</b>	FH-27R	#2	1.000" (1")	.156" (5/32")	.220" (7/32")	PIECE	
<b>1598-BX45</b>	FH-27R	#2	1.000" (1")	.156" (5/32")	.220" (7/32")	45# BOX	23

Round H Channels



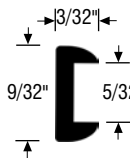
Cat. No.	Mfg. Code	Alloy	F (Face Width)	O (opening)	H (total Height)	R (Radius)	Sold by:	Pcs/Box
<b>1575-PC26</b>	RH-3	#2	.125" (1/8")	.135" (9/64")	.230" (15/64")	.078" (5/64")	PIECE	
<b>1575-BX45</b>	RH-3	#2	.125" (1/8")	.135" (9/64")	.230" (15/64")	.078" (5/64")	45# BOX	115
<b>1581-PC26</b>	RH-8	#2	.156" (5/32")	.156" (5/32")	.240" (15/64")	.109" (7/64")	PIECE	
<b>1581-BX45</b>	RH-8	#2	.156" (5/32")	.156" (5/32")	.240" (15/64")	.109" (7/64")	45# BOX	95
<b>1578-PC26</b>	RH-5N	#2	.180" (3/16")	.156" (5/32")	.310" (5/16")	.094" (3/32")	PIECE	
<b>1578-BX45</b>	RH-5N	#2	.180" (3/16")	.156" (5/32")	.310" (5/16")	.094" (3/32")	45# BOX	57
<b>1596-PC26</b>	RH-12	#2	.187" (3/16")	.171" (11/64")	.295" (19/64")	.188" (3/16")	PIECE	
<b>1596-BX45</b>	RH-12	#2	.187" (3/16")	.171" (11/64")	.295" (19/64")	.188" (3/16")	45# BOX	56
<b>1577-PC26</b>	RH-5	#2	.190" (3/16")	.187" (3/16")	.340" (11/32")	.109" (7/64")	PIECE	
<b>1577-BX45</b>	RH-5	#2	.190" (3/16")	.187" (3/16")	.340" (11/32")	.109" (7/64")	45# BOX	53
<b>1577-SBX6</b>	RH-5	Soft	.190" (3/16")	.187" (3/16")	.340" (11/32")	.109" (7/64")	45# BOX	53
<b>1576-PC26</b>	RH-4	#2	.218" (7/32")	.156" (5/32")	.260" (17/64")	.156" (5/32")	PIECE	
<b>1576-BX45</b>	RH-4	#2	.218" (7/32")	.156" (5/32")	.260" (17/64")	.156" (5/32")	45# BOX	70
<b>1576-SBX6</b>	RH-4	Soft	.218" (7/32")	.156" (5/32")	.260" (17/64")	.156" (5/32")	45# BOX	70
<b>1582-PC26</b>	RH-10	#2	.220" (7/32")	.186" (3/16")	.320" (21/64")	.141" (9/64")	PIECE	
<b>1582-BX45</b>	RH-10	#2	.220" (7/32")	.186" (3/16")	.320" (21/64")	.141" (9/64")	45# BOX	53
<b>1582-SBX6</b>	RH-10	Soft	.220" (7/32")	.186" (3/16")	.320" (21/64")	.141" (9/64")	45# BOX	53
<b>1579-PC26</b>	RH-6	#2	.243" (1/4")	.155" (5/32")	.258" (17/64")	.188" (3/16")	PIECE	
<b>1579-BX45</b>	RH-6	#2	.243" (1/4")	.155" (5/32")	.258" (17/64")	.188" (3/16")	45# BOX	61
<b>1580-PC26</b>	RH-7	#2	.250" (1/4")	.187" (3/16")	.300" (19/64")	.188" (3/16")	PIECE	
<b>1580-BX45</b>	RH-7	#2	.250" (1/4")	.187" (3/16")	.300" (19/64")	.188" (3/16")	45# BOX	57
<b>1580-WPC6</b>	RH-7W	#2	.250" (1/4")	.204" (13/64")	.317" (5/16")	.188" (3/16")	PIECE	
<b>1580-WBX6</b>	RH-7W	#2	.250" (1/4")	.204" (13/64")	.317" (5/16")	.188" (3/16")	45# BOX	57
<b>1591-PC26</b>	RH-36	#2	.308" (5/16")	.185" (3/16")	.334" (21/64")	.219" (7/32")	PIECE	
<b>1591-BX45</b>	RH-36	#2	.308" (5/16")	.185" (3/16")	.334" (21/64")	.219" (7/32")	45# BOX	39
<b>1595-PC26</b>	RH-37	#2	.375" (3/8")	.156" (5/32")	.319" (5/16")	.250" (1/4")	PIECE	
<b>1595-BX45</b>	RH-37	#2	.375" (3/8")	.156" (5/32")	.319" (5/16")	.250" (1/4")	45# BOX	34

# Lead Channel

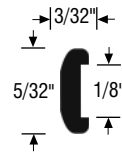
## AVRIL & DHD METALS

Our original offering of lead channel comes from two factories; G.A. Avril and DHD Metals. When shipped in straight (unrolled) six foot lengths, lead must be shipped in an oversize box. The minimum UPS charges for these oversize boxes is thirty pounds. The number of pieces per factory box are approximate. Lead is sold either by the piece or by the closed factory box.

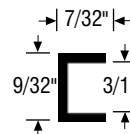
### Border U Channels



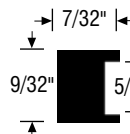
**1500-PC64** 3/32" FLAT U by the PIECE\*\*  
**1500-BX50** 3/32" FLAT U by the BOX  
 Avril #U1 133 pcs. /50 lb. Box  
 \*\*When purchased by the piece this channel is sold in six foot lengths that are rolled.



**1501-PC64** 3/32" ROUND U by the PIECE\*\*  
**1501-BX50** 3/32" ROUND U by the BOX  
 Avril U1R 200 pcs. /50 lb. Box  
 \*\*When purchased by the piece this channel is sold in six foot lengths that are rolled.

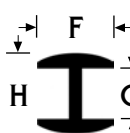


**1503-PC64** 7/32" FLAT U by the PIECE  
**1503-BX50** 7/32" FLAT U by the BOX  
 Avril #31U 89 pcs. /50 lb. Box



**1503-2PC4** 7/32" FLAT Heavy U by the PIECE  
**1503-2BX1** 7/32" FLAT Heavy U by the BOX  
 Avril 3%SB 70 pcs. /100 lb. Box

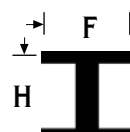
### Round H Channels



Cat. No.	F (Face Width)	Shape	O (opening)	H (total Height)	Sold by:	Pcs/Box	Mfg. Code
<b>1504-PC64</b>	3/32"	ROUND H	5/32"	9/32"	PIECE**		Avril #0
<b>1504-BX50</b>	3/32"	ROUND H	5/32"	9/32"	50# BOX	160	Avril #0
<b>1505-PC52</b>	5/32"	ROUND H	5/32"	7/32"	PIECE**		DHD #21R
<b>1505-BX50</b>	5/32"	ROUND H	5/32"	7/32"	50# BOX	114	DHD #21R
<b>1506-PC64</b>	3/16"	ROUND H	5/32"	5/16"	PIECE**		Avril #4
<b>1506-BX50</b>	3/16"	ROUND H	5/32"	5/16"	50# BOX	80	Avril #4
<b>1506-BX10</b>	3/16"	ROUND H	5/32"	5/16"	100# BOX	160	Avril #4
<b>1514-PC64</b>	5/16"	ROUND H	3/16"	21/64"	PIECE		Avril #20
<b>1514-BX10</b>	5/16"	ROUND H	3/16"	21/64"	100# BOX	73	Avril #20

\*\*When purchased by the piece this channel is sold in six foot lengths that are rolled.

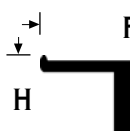
### Flat H Channels - Type I



Cat. No.	F (Face Width)	Shape	O (opening)	H (total Height)	Sold by:	Pcs/Box	Mfg. Code
<b>1508-PC64</b>	1/4"	FLAT H	5/32"	5/16"	PIECE**		Avril #22
<b>1508-BX50</b>	1/4"	FLAT H	5/32"	5/16"	50# BOX	89	Avril #22
<b>1511-PC64</b>	3/8"	FLAT H	3/16"	21/64"	PIECE		Avril #11X
<b>1511-BX10</b>	3/8"	FLAT H	3/16"	21/64"	100# BOX	59	Avril #11X

\*\*When purchased by the piece this channel is sold in six foot lengths that are rolled.

### Flat H Channels - Type II



Cat. No.	F (Face Width)	Shape	O (opening)	H (total Height)	Sold by:	Pcs/Box	Mfg. Code
<b>1509-PC52</b>	3/8"	FLAT H	3/16"	9/32"	PIECE**		DHD #2R
<b>1509-BX50</b>	3/8"	FLAT H	3/16"	9/32"	50# BOX	62	DHD #2R
<b>1509-BX10</b>	3/8"	FLAT H	3/16"	9/32"	100# BOX	124	DHD #2R
<b>1510-PC52</b>	1/2"	FLAT H	3/16"	9/32"	PIECE		DHD #67R
<b>1510-BX50</b>	1/2"	FLAT H	3/16"	9/32"	50# BOX	41	DHD #67R
<b>1510-BX10</b>	1/2"	FLAT H	3/16"	9/32"	100# BOX	82	DHD #67R

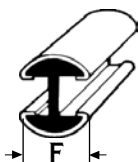
**BRASS PLATED & ZINC CAP LEAD CAME**

Enjoy the flexibility of lead and the quality look of brass or zinc channel. Brass Plated Lead and Zinc Cap Lead have a lead center and the outside "exposed" areas are brass plated or zinc capped. Available in only straight six-foot lengths. When shipped, Brass Plated Lead and Zinc Cap Lead must be shipped in an oversize box. The minimum UPS charges for these oversize boxes is thirty pounds. The number of pieces per factory box are approximate.

**Border U & Round H Channel**

Cat. No.	Type	F (Face Width)	Shape	O (opening)	Sold by	Pcs/Box	Manufacturer
<b>BRASS PLATED LEAD:</b>							
1520-PC26	Brass Plated	3/16"	Round H	5/32"	Piece		Cascade
1520-BX45	Brass Plated	3/16"	Round H	5/32"	45 lb. Box	77	Cascade
1527-PC26	Brass Plated	7/32"	Round H	5/32"	Piece		Cascade
1527-BX45	Brass Plated	7/32"	Round H	5/32"	45 lb. Box	55	Cascade
1521-PC26	Brass Plated	1/4"	Round H	5/32"	Piece		Cascade
1521-BX45	Brass Plated	1/4"	Round H	5/32"	45 lb. Box	44	Cascade

ROUND H  
(available in Brass Plate AND Zinc Cap):



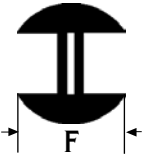
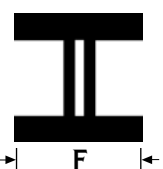
**ZINC CAP LEAD:**

1531-PC26	Zinc Cap	3/16"	Round H	5/32"	Piece		Cascade
1531-BX45	Zinc Cap	3/16"	Round H	5/32"	45 lb. Box	69	Cascade
1532-PC26	Zinc Cap	7/32"	Round H	5/32"	Piece		Cascade
1532-BX45	Zinc Cap	7/32"	Round H	5/32"	45 lb. Box	59	Cascade

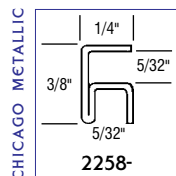
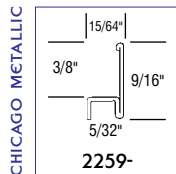
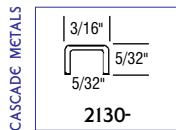
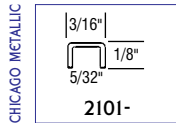
**REINFORCED LEAD CAME**

As its name indicates this is a lead came that has been reinforced by putting a brass strip in the heart of the channel. Available in only straight six-foot lengths. When shipped, reinforced lead must be shipped in an oversize box. The minimum UPS charges for these oversize boxes is thirty pounds. The number of pieces per factory box are approximate.

**Round & Flat H Channel**

	Cat. No.	F (Face Width)	Shape	O (opening)	Sold by:	Pcs/Box	Mfg. Code
ROUND H: 	1551-PC26	3/16"	Round H	5/32"	Piece		Cascade RH5NR
	1551-BX45	3/16"	Round H	5/32"	45 lb. Box	48	Cascade RH5NR
	1555-PC26	7/32"	Round H	3/16"	Piece		Cascade RH10R
	1555-BX45	7/32"	Round H	3/16"	45 lb. Box	45	Cascade RH10R
FLAT H: 	1552-PC26	1/4"	Round H	5/32"	Piece		Cascade RH6R
	1552-BX45	1/4"	Round H	5/32"	45 lb. Box	45	Cascade RH6R
	1553-PC26	3/8"	Flat H	3/16"	Piece		Cascade FH45R
	1553-BX45	3/8"	Flat H	3/16"	45 lb. Box	30	Cascade FH45R

## CHANNELS



Cat. No.	Metal	F (Face Width)	Sold by	Pcs/Box
<b>2101-ZPC3</b>	Zinc	1/8"	Piece	
<b>2101-ZBX3</b>	Zinc	1/8"	40 lb.Box	319
<b>2101-BPC3</b>	Brass	1/8"	Piece	
<b>2101-BBX3</b>	Brass	1/8"	40 lb.Box	259
<b>2101-CPC3</b>	Copper	1/8"	Piece	
<b>2101-CBX3</b>	Copper	1/8"	40 lb.Box	239
<b>2130-ZPC6*</b>	Zinc	5/32"	Piece	
<b>2130-ZBX6*</b>	Zinc	5/32"	22 lb.Box	220
<b>2130-BPC6*</b>	Brass	5/32"	Piece	
<b>2130-BBX6*</b>	Brass	5/32"	22 lb.Box	220
<b>2130-CPC6*</b>	Copper	5/32"	Piece	
<b>2130-CBX6*</b>	Copper	5/32"	22 lb.Box	220
<b>2259-ZPC3</b>	Zinc	9/16"	Piece	
<b>2259-ZBX3</b>	Zinc	9/16"	40 lb.Box	107
<b>2259-BPC3</b>	Brass	9/16"	Piece	
<b>2259-BBX3</b>	Brass	9/16"	40 lb.Box	87
<b>2258-ZPC3</b>	Zinc	1/4"x 3/8"	Piece	
<b>2258-ZBX3</b>	Zinc	1/4" x 3/8"	40lb.Box	119

These Channels provide for a strong, lightweight border on intricate glass applications.

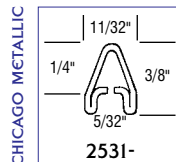
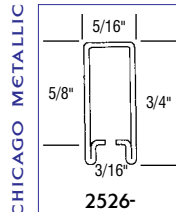
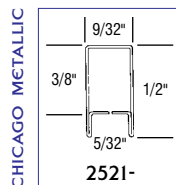
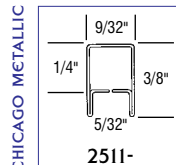
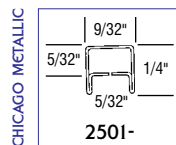
### \*Lil Notcher

A hand tool that cuts a perfect notch on both sides of a single sided "U" channel at the same time. Works with **Cascade's profile no. 2130** in brass, copper or zinc. Available for two different angles:

**90°** Cat. No. **4527-0426**  
**45°** Cat. No. **4528-0426**



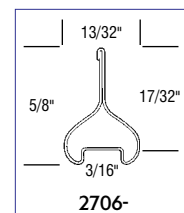
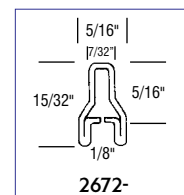
## OUTER BARS



Cat. No.	Metal	F (Face Width)	Sold by	Pcs/Box
<b>2501-ZPC3</b>	Zinc	1/4"	Piece	
<b>2501-ZBX3</b>	Zinc	1/4"	40 lb.Box	127
<b>2501-BPC3</b>	Brass	1/4"	Piece	
<b>2501-BBX3</b>	Brass	1/4"	40 lb.Box	103
<b>2501-CPC3</b>	Copper	1/4"	Piece	
<b>2501-CBX3</b>	Copper	1/4"	40 lb.Box	95
<b>2511-ZPC3</b>	Zinc	3/8"	Piece	
<b>2511-ZBX3</b>	Zinc	3/8"	35 lb.Box	75
<b>2511-BPC3</b>	Brass	3/8"	Piece	
<b>2511-BBX3</b>	Brass	3/8"	35 lb.Box	61
<b>2511-CPC3</b>	Copper	3/8"	Piece	
<b>2511-CBX3</b>	Copper	3/8"	35 lb.Box	56
<b>2521-ZPC3</b>	Zinc	1/2"	Piece	
<b>2521-ZBX3</b>	Zinc	1/2"	35 lb.Box	60
<b>2521-BPC3</b>	Brass	1/2"	Piece	
<b>2521-BBX3</b>	Brass	1/2"	35 lb.Box	48
<b>2521-CPC3</b>	Copper	1/2"	Piece	
<b>2521-CBX3</b>	Copper	1/2"	35 lb.Box	45
<b>2526-ZPC3</b>	Zinc	3/4"	Piece	
<b>2526-ZBX3</b>	Zinc	3/4"	30 lb.Box	38
<b>2526-BPC3</b>	Brass	3/4"	Piece	
<b>2526-BBX3</b>	Brass	3/4"	30 lb.Box	30
<b>2531-ZPC3</b>	Zinc	3/8"	Piece	
<b>2531-ZBX3</b>	Zinc	3/8"	40 lb.Box	93
<b>2672-ZPC3</b>	Zinc	15/32"	Piece	
<b>2672-ZBX3</b>	Zinc	15/32"	40 lb.Box	80
<b>2706-ZPC3</b>	Zinc	5/8"	Piece	
<b>2706-ZBX3</b>	Zinc	5/8"	40 lb.Box	80

**Outer Bars** with a seam at the middle of the channel permit a slight spread of the channel. All the channels in this section have the adjustable channel - with one exception: the Prairie House Profile #2706-

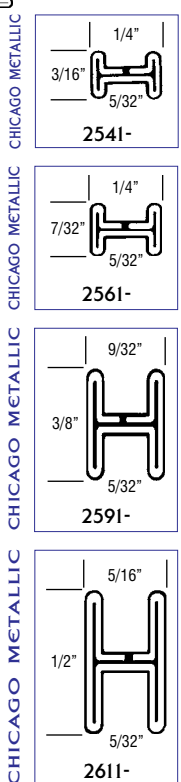
**Outer Bars** provide border support and additional rigidity to any stained glass panel, regardless of the medium used in the interior of the panel (zinc, brass, copper, lead, copper foil, etc.).



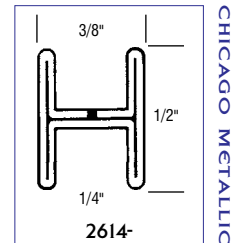
Zinc, Brass, Lite Brass and Copper Channels all come in six foot lengths. When shipped, these channels must be packed in a box considered by UPS as an oversize box. The minimum UPS charges is for thirty pounds.



## FLAT INNER BARS



Cat. No.	Metal	F (Face Width)	Sold by	Pcs/Box
<b>2541-ZPC3</b>	Zinc	3/16"	Piece	
<b>2541-ZBX3</b>	Zinc	3/16"	40 lb.Box	169
<b>2541-BPC3</b>	Brass	3/16"	Piece	
<b>2541-BBX3</b>	Brass	3/16"	40 lb.Box	137
<b>2541-CPC3</b>	Copper	3/16"	Piece	
<b>2541-CBX3</b>	Copper	3/16"	40 lb.Box	127
<b>2561-ZPC3</b>	Zinc	7/32"	Piece	
<b>2561-ZBX3</b>	Zinc	7/32"	40 lb.Box	155
<b>2561-LBPC</b>	Lite Brass	7/32"	Piece	
<b>2561-LBBX</b>	Lite Brass	7/32"	25 lb.Box	98
<b>2591-ZPC3</b>	Zinc	3/8"	Piece	
<b>2591-ZBX3</b>	Zinc	3/8"	40 lb.Box	80
<b>2591-BPC3</b>	Brass	3/8"	Piece	
<b>2591-BBX3</b>	Brass	3/8"	40 lb.Box	65
<b>2591-CPC3</b>	Copper	3/8"	Piece	
<b>2591-CBX3</b>	Copper	3/8"	40 lb.Box	60
<b>2611-ZPC3</b>	Zinc	1/2"	Piece	
<b>2611-ZBX3</b>	Zinc	1/2"	40 lb.Box	61
<b>2611-BPC3</b>	Brass	1/2"	Piece	
<b>2611-BBX3</b>	Brass	1/2"	40 lb.Box	50
<b>2614-ZPC3</b>	Zinc	1/2"	Piece	
<b>2614-ZBX3</b>	Zinc	1/2"	40 lb.Box	54



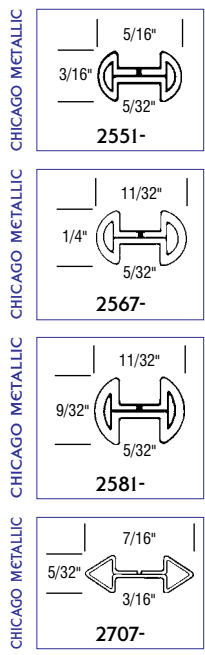
The 2614- Profile has a 1/4" High Heart.

**Flat Inner Bars** are used for internal bracing to provide strength which far exceeds that of lead.

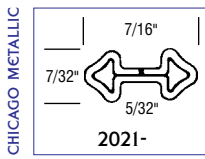
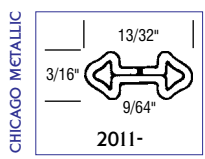
**Lite Brass** is manufactured in a lighter gauge than the standard "Brass" - for easier bending & shaping. Lite Brass also has a greater yield per pound as well as giving the craftsman more design control.



## INNER BARS : LOW ROUND & COLONIAL



Cat. No.	Metal	F (Face Width)	Sold by	Pcs/Box
<b>2551-ZPC3</b>	Zinc	3/16"	Piece	
<b>2551-ZBX3</b>	Zinc	3/16"	40 lb.Box	131
<b>2551-LBPC</b>	Lite Brass	3/16"	Piece	
<b>2551-LBBX</b>	Lite Brass	3/16"	25 lb.Box	92
<b>2567-ZPC3</b>	Zinc	1/4"	Piece	
<b>2567-ZBX3</b>	Zinc	1/4"	40 lb.Box	105
<b>2567-LBPC</b>	Lite Brass	1/4"	Piece	
<b>2567-LBBX</b>	Lite Brass	1/4"	25 lb.Box	73
<b>2581-ZPC3</b>	Zinc	9/32"	Piece	
<b>2581-ZBX3</b>	Zinc	9/32"	35 lb.Box	104
<b>2707-ZPC3</b>	Zinc	5/32"	Piece	
<b>2707-ZBX3</b>	Zinc	5/32"	40 lb.Box	167
<b>2011-ZPC3</b>	Zinc	3/16"	Piece	
<b>2011-ZBX3</b>	Zinc	3/16"	40 lb.Box	143
<b>2021-ZPC3</b>	Zinc	7/32"	Piece	
<b>2021-ZBX3</b>	Zinc	7/32"	40 lb.Box	125



**Inner Bars** provide strength with a traditional appearance. The additional strength (over that of lead) is particularly useful with bevels.

**Lite Brass** is manufactured in a lighter gauge than the standard "Brass" - for easier bending & shaping. Lite Brass also has a greater yield per pound as well as giving the craftsman more design control.

# Chemicals

## FOR GLASS CUTTERS: CUTTING OIL

Cutting oil keeps the cutter wheel rolling smoothly and helps rid the wheel housing of small glass particles. Specially formulated water-soluble cutter lubricants are available from the following manufacturers:

### Fletcher

**ENVIROGOLD** - For use with the Designer II Glass Cutters - Environmentally safe, 100% biodegradable. 4 oz.

**8715-0059**



**8715-0059**

### Inland

**RINSES OFF** - Water Soluble, Chemically Neutral. Lubricates all types of glass cutters. 4 oz.

**50057-074**



**50057-074**

### Novacan

**GLASS CUTTER OIL** - Non Toxic, Oil Base, Cleans up with ordinary dish-washing soaps or alcohol. For all types of glass cutters. 8 oz.

**1789-0106**



**1789-0106**

### Toyo (G.A.I.)

**CUTTING OIL** - A synthetic lubricant specially formulated for Toyo Super Cutters. Water Soluble & Non-Corrosive. 4 oz.

**8005-0061**



**8005-0061**

## FOR GLASS GRINDERS: COOLANTS

Coolant is used primarily to lengthen the life of grinder bits by reducing grinding friction. Add to the water reservoir of your grinder. You may get up to 50% more bit life by using grinder coolant. Available from two manufacturers:

### Inland

**DIAMOND COOLANT** - Makes grinder heads & bandsaw blades last longer and cut faster. 8 oz.

**50011-074**



**50011-074**

### Novacan

**GRINDER COOLANT** - Non Toxic. Recommended for use in schools and institutions. Suitable for use with all makes of diamond grinders. 8 oz.

**1788-0106**



**1788-0106**

## SOLDERING FLUX

Flux must be applied to metals just prior to soldering. There are many different brands of flux available in liquid, gel and paste form. Liquid & gel fluxes are preferred in most situations.

### Oleic Acid



### OLEIC ACID FLUX

Liquid flux used on lead only.

**1750-0031** 2 oz.

**1751-0031** 16 oz.

**1752-0031** 1 Gallon

### RubyFluid Flux



### RUBYFLUID FLUX

Liquid flux used on brass, copper and zinc.

**1753-0116** 2 oz.

**1754-0116** 16 oz.

**1755-0116** 1 Quart

**1756-0116** 1 Gallon

### RubyFluid Paste



### RUBYFLUID PASTE

Solid, cream-like flux used on brass, copper and zinc. 2 oz.

**1757-0116**

### LA-CO Brite Flux



### LA-CO BRITE FLUX

Non acidic liquid flux for all metals.

Must be diluted with water.

**1760-0086** 4 oz.

**1761-0086** 16 oz.

**1762-0086** 1 Quart

**1763-0086** 1 Gallon

### Classic 100 Gel



### CLASSIC 100 GEL FLUX

Odorless, non-smoking flux for copper foil, lead and zinc came. Cleans off quickly with water and is non-corroding after washing.

**1711-1109** 4 oz.

**1712-1109** 8 oz.

**1713-1109** Gallon **Limited Stock**

### Blu-Glass



### BLU-GLASS FLUX

Popular flux for all metals. Contains zinc chloride. Formulated by Canfield, manufacturer of solder. 8 oz.

**1781-0099**

### Old Masters



### OLD MASTERS FLUX

Developed by Novacan, this flux is designed specifically for the stained glass industry. 8 oz.

**1790-0106**

### EZ-Flux



### EZ- FLUX PEN

Water soluble solder flux pen for lead or foil.

**1759-1342**

**SOLDERING IRON TIP CARE**

Lengthen the life of your soldering iron tip by tinning it with solder... The use of a sal ammoniac block will aid you in the process of tinning by cleaning the tip and preparing it to be tinned (coated in solder). Sal ammoniac is a better alternative to using flux since it will not attack the plating of a copper tip. Sold in a 4 oz. block.

**Sal Ammoniac Block:** Cat. no. **1785-0391**.

**PATINA**

This chemical is used to change the color of a metal. Different patinas are used for not only different colors, but will work only with certain metals. Most patina is applied to solder for a copper or black color. Special patinas are sometimes used for lead, zinc, copper, or brass comes.

**By Novacan**

**SUPER BRITE**

Copper patina for solder only.

**1765-0106** 8 oz.  
(can ship UPS Ground - ORM-D)

**1766-2G06** 2 Gallon  
(cannot ship UPS - can ship freight)



Super Brite

**BLACK PATINA**

Black patina for solder and lead.

**1774-0106** 8 oz.  
(can ship UPS Ground - ORM-D)

**1775-2G06** 2 Gallon  
(cannot ship UPS - can ship freight)



Black Patina

**BLACK PATINA FOR ZINC**

**1777-0106** 8 oz.  
(can ship UPS Ground - ORM-D)

**1778-2G06** 2 Gallon  
(cannot ship UPS - can ship freight)



Black for Zinc

**NO-SPILL BOTTLE HOLDER**

**By Stained Glass Images -**

Holds chemical bottles up to 2-1/4" in diameter.

Cat. No. **1721-0127**



1721-0127

**PATINA CONTINUED**

**NONE of the JAX Chemical Patinas listed below can be shipped via UPS. They all must be shipped by freight or picked up.**

**By Jax Chemical**

**Jax**

**ANTIQUE GREEN PATINA** - For copper, brass and bronze. Produces a permanent, authentic, antique green finish. Can be used as a second step process over a copper patinaed surface. Available in one size only. 16 oz.

**1731-0656**



1731-0656

**Jax**

**BROWN PATINA** - Darkener, producing an antique finish on brass, bronze and copper. Can be used as a second step process over a copper patinaed surface. Ideal to use on lampshades in order to compliment the bronze finish of many lamp bases. Available in one size only. 16 oz.

**1732-0656**



1732-0656

**Jax**

**PEWTER BLACK PATINA** -

For lead, zinc, brass, copper, nickel, pewter, tin-leaded alloys and solder. Produces a "gun-black" finish. Available in two sizes.

16 oz. **1733-0656**

Gallon **1733-G656**



1733-0656

**Jax**

**COPPER PLATING SOLUTION**

- For solders, brass, iron and steel. Instantly patinas bright copper finish. Also excellent preparation for application of JAX Green Patina or Brown Darkener. Available in one size only. 16 oz.

**1734-0656**



1734-0656

FOR GLASS

**Sprayway  
GLASS CLEANER**

Contains no silicone or ammonia. It does contain perfume-grade alcohols, which are the best cleaning agents and have a quick evaporation rate. 19 oz.

**1803-0035**



**1803-0035**

**Inland  
POLISHING POWDER**

Final polish for beveled glass faces. Remove light scratches from glass surfaces. Works in combination with Inland polishing discs. Includes applicator brush. Cerium Oxide. Mix with water.

**50037-074**



**50037-074**

FLUX / PATINA CLEANER

**CJ'S  
FLUX & PATINA REMOVER**

Thoroughly removes the greasy mess and residues from all types of flux. Helps remove patina stains to glass. Allows patina to work properly to solder giving a brighter finish.

**1741-0332** 8 oz.  
**1742-0332** 16 oz.  
**1743-0332** 1 Gallon



**CJ's Flux Remover**

**Classic Neutra Clean  
PREMIUM DEFLUXER**

Prepares surface for patina application. Rinses off with tap water. Inhibits corrosion by neutralizing and completely removing flux residues.

**1715-1109** 8 oz.  
**1716-1109** Gallon



**Classic Neutra Clean**

**Kwik-Clean  
FLUX AND PATINA CLEANER**

Use throughout your stained glass project to clean contaminants, oil and flux to a streak-free shine on the solder, came and glass.

**1787-P701** 16 oz.  
**1787-G720** Gallon



**Kwik-Clean**

**Kwik-Clean  
SCRUBS**

Pre-moistened Flux & Patina Cleaner Pads. Fine Grit. These scrubs can be remoistened and used over and over.

**4505-0760**



**4505-0760**

FOR FINISHING

**Finishing Compound**



**Clarity  
FINISHING COMPOUND**

Insures a bright, even, durable finish on solder seams treated with patina. Polishes & protects against tarnish for a professional finish. Polishes glass to a brilliant shine.

**1796-0043** 12 oz.  
**1797-0043** 1 Gallon

**LIVA Polish**



**LIVA  
Stained Glass Polish** - Polishes your stained glass projects to the highest shine. 12 oz.

**1795-0043**

**1816-0991**



**Blue Magic  
METAL POLISH CREAM** - Chemically deep cleans, shines & protects. For all metals including brass, bronze, copper and more.

**1816-0991** 100gm (3.5 oz.)

CEMENTING

"Cement" must be forced under all lead channels (between the lead and glass) to strengthen and weather-proof a window. Due to the valuable strength that cementing adds, this step is necessary even if the window is for indoor display only.

**Inland  
CEMENT SYSTEM**



Many professional studios and production manufacturers use the Inland Cement System. It's available in three sizes and two colors: Black, which darkens lead came or Natural, for other

metal came where a neutral color is desired.

**BLACK:**  
**50031-074** One Pound (1/2 Pint)  
**50035-074** 4 Pounds (1 Quart)  
**50033-074** 15 Pounds (1 Gallon)

**NATURAL (Gray):**  
**50032-074** One Pound (1/2 Pint)  
**50036-074** 4 Pounds (1 Quart)  
**50034-074** 15 Pounds (1 Gallon)

**WHITING POWDER**

Powdered calcium carbonate (chalk) is brushed on to the panel after cementing to help dry the cement, darken the leads and clean the panel.

**1786-0165** Sold per pound  
**1786-BG50** 50 pound bag

**ADHESIVES**

**KemXert U.V. Glue**

This ultra-violet glue contains no solvents and cures crystal clear by exposure to long wavelength UV light (either natural sunlight or U.V. lamp) for fast bonding of glass to glass or glass to metal (and many plastics). Minimal 2% shrinkage. Only need to use sparingly for effective bonding. Works best on cathedral glass. 35 cc (1 oz.)  
**1824-0083**



1824-0083

**U.V. LAMP** - Portable Ultra-violet lamp, battery operated. 6-1/2" X 2"  
**1825-0083**

**REPLACEMENT BULB** -  
 For U.V. Lamp (above).  
**1825-RB83**



1825-0083

**WELDBOND®**

Glue, Sealer, Bonding Agent. Use full strength as a glue for glass, wood, hard foam, concrete, tile, laminates, porous and non-porous materials  
**1708-T057** 5 oz.  
**1709-T097** 9.29 oz.



Weldbond

**Sprayway**

**SPRAY ADHESIVE** - Permanent or temporary bond. Use to hold your patterns on glass. 14 oz.  
**1798-0035**



1798-0035

**FOR MIRROR**

**Sprayway MIRROR EDGE SEALANT** -

Protects mirror edge from blackening while assembling your project. The entire back surface, as well as the edge of some mirror products, should be treated with this sealant to prevent blackening. 11 oz.  
**1801-0035**



1801-0035

**FOR ETCHING**

**Armour ETCHING CREAM** - Fast acting cream compound that helps create permanent etched designs on windows, mirrors and household glassware. 3 oz.  
**8500-0013**



8500-0013

**Velvet ETCHING CREAM** - For use in etching permanent designs on windows, mirrors and household glass. 16 oz.  
**8510-0126** (cannot ship UPS)



8510-0126

**FOR TINNING**

**Canfield SOLDER MAGIC ACTION TIN**

A fast tinning method for metals: lamp caps, wires, rebars, copper, brass, steel, etc. Produces a bright shiny coating. Chemically balanced by Canfield to interact perfectly with Canfield Solder. 8 oz.  
**1781-1099**



1781-1099

**NO DAYS GLAZE™**

**Streuter Technologies NO DAYS GLAZE**

Save Time and Increase Productivity. Key features:

- Designed for Professionals & Hobbyists
- Add Structural Strength & Superior
- Sealing Over Putty or Cement
- Reworkable and Repositionable
- Indefinite Shelf Life
- Cures in Seconds! Not Days
- Non-Toxic, No Fume Byproduct
- No Turning Over



**5 Easy Steps:**

1. Insert No Days Glaze into the metal came channel.
2. Place the glass against No Days Glaze surface.
3. Apply heat where glass meets the came.
4. Push the glass into the NO Days Glaze to create a three side seal and bond.
5. Allow to briefly cool while you move on.

- 1942B-025** 25' Spool 5/32" BLACK
- 1942C-025** 25' Spool 5/32" CLEAR
- 1942P-025** 25' Spool 5/32" PEWTER
- 1943B-025** 25' Spool 3/16" BLACK
- 1943C-025** 25' Spool 3/16" CLEAR
- 1943P-025** 25' Spool 3/16" PEWTER
- 1942B-100** 100' Spool 5/32" BLACK
- 1942C-100** 100' Spool 5/32" CLEAR
- 1942P-100** 100' Spool 5/32" PEWTER



**1949HG-00** Heat Gun for No Days Glaze



# Chemicals

## BRUSH-ON COLOR MAGIC™

Versatile liquid stain dries in minutes to a durable fade proof sheen. Use to stain solder seams, came lead, filigrees and overlays, lamp caps, sandblasted surfaces, clear glass and mirrors, even wood! Just brush on to dramatically transform project.



Size: 1/2 oz. unless noted otherwise.

### Opaque Colors

- 8260-0712** Medium Gray
- 8261-0712** Snow White
- 8262-0712** Lapis Blue
- 8263-0712** Kelly Green
- 8264-0712** Red Poppy
- 8265-0712** Bright Gold
- 8266-0712** Sun Yellow
- 8267-0712** Violet
- 8268-0712** Shiny Silver
- 8269-0712** Pink
- 8270-0712** Peach
- 8283-0712** Black Matte
- 8294-0712** Antique Bronze
- 8295-0712** Bright Copper
- 8296-0712** Turquoise
- 8298-0712** Flesh Tone

### Transparent Colors

- 8271-0712** Topaz Brown
- 8272-0712** Lemon Yellow
- 8273-0712** Teal Blue
- 8274-0712** Leaf Green
- 8275-0712** Black Onyx
- 8276-0712** Ruby Red
- 8277-0712** Royal Blue
- 8278-0712** Vivid Purple
- 8279-0712** Apricot
- 8280-0712** Raspberry
- 8281-0712** Spring Green
- 8282-0712** Hot Pink
- 8284-0712** White Pearl

### Enhancements

- 8285-0712** Gold Glitter Coating
- 8286-0712** Silver Glitter Coating
- 8288-0712** Iridescent Glitter Coating
- 8289-0712** Iridescent Frost Coating
- 8290-0712** Thinner
- 8291-0712** UV Sealant Spray Can (6 oz.)
- 8292-0712** Protective Coat w/ UV Inhibitor

## TOOLS FOR COLOR MAGIC

### Magic Outlining Pen

Outline, write, draw details with no-fire Color Magic™ stains or fire-on glass enamels. Includes cleaning plunger. Available in two size points:

- 8293-F712** - Fine Point
- 8293-R712** - Regular Point



## SAND ETCHING

**70-900013**

### Sand Etch System

This is a portable, self contained glass etching system which is designed to etch beautiful, permanent designs to decorate and personalize glassware, windows and mirrors. The same design techniques can be applied to ceramics, marble, tile metals and other non-porous surfaces. The sand etch kit contains:



- 6 oz. Aerosol Propellant
- 8 oz. Abrasive Grit
- Face Mask
- 16 page Instructional Booklet
- Over 100 Reusable Stencils

Refills:

- 70-910113** 6 oz. Aerosol Refill
- 70-911013** 12 oz. Abrasive Refill

## FOR FUSING

### Bullseye Shelf Primer

Hot glass will stick to most ceramic or metal surfaces & crack as it cools, unless prevented by a separator like shelf primer.

- 5 lb. Bucket.
- 8237-0026**



### Evenheat Hi-Fire Shelf Primer

Prevents glass from sticking to the kiln shelf or molds.

- 24 oz. **8235-0056**



### GlasTac

Holds pieces in place prior to firing. Slow drying allows readjustments as you work. Organic colorant lets you see where you have applied it on clear glass.

- 8239-0426** 4 oz.
- 8239-3226** 32 oz.



### NO DAYS Glass Fusing Adhesive

Adhesive Squares designed for setting up your glass layers before fusing your glass together in a kiln.

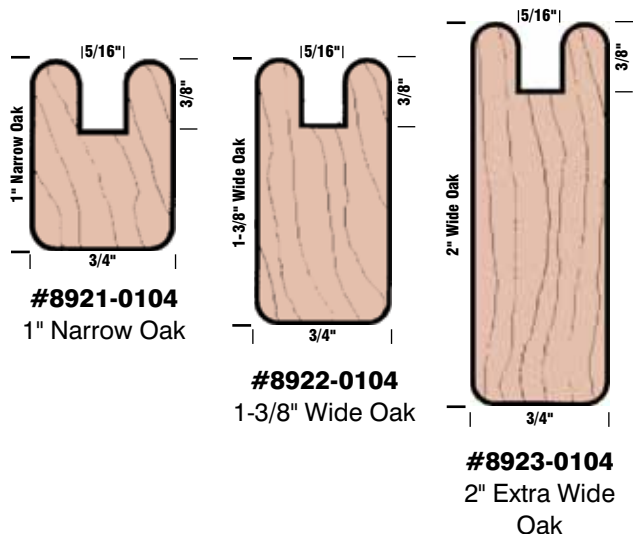
**1940-0050**



**LINEAL FRAMING: UNFINISHED**

**Unfinished Red Oak Framing - 6' Lengths.**

For Lead, Zinc, Brass or Copper Framing: 5/16" Opening. Available in three sizes. Though individual tastes may differ, we suggest that the Narrow framing is most suitable for panels of up to four square feet, and the Wide for up to ten square feet. Extra Wide (2") is also available. Sold ready to finish.



**FRAMING TIP:**

To make your own frames, cut the wood to size using the mitre allowance. The mitre allowances for each size frame are listed below. Add this amount to the size of your glass panel in order to calculate the length of the OUTSIDE edge of your frame. Mark the wood and cut the mitre.

Narrow (1")	Add 1-5/16"
Wide (1-3/8")	Add 2-1/16"
Extra Wide (2")	Add 3-5/16"

**CORNER BRACKETS**

Oak or Walnut - Unfinished. Easy to create wood frames for a wide range of custom sizes.



**Corner Brackets®** are screwed together and use either Frame Side Packs or the lineal oak framing (1-3/8").

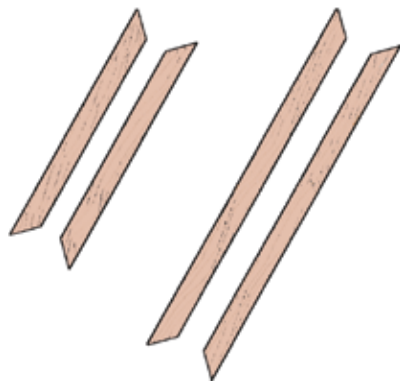


- 8933-0104** Oak
- 8934-0104** Walnut

**FRAMING PACKS: PRECUT OAK**

**Pre-cut Red Oak Framing - Unfinished**

For Lead, Zinc, Brass or Copper Framing: 5/16" Opening. Available in 10" to 36" lengths. Each pack contains two pieces of Narrow (1") Oak framing. Two packs make up a complete frame. The frames are precision mitre cut, drilled and countersunk to accept the special tempered phillips screws and oak plugs (included in each pack). The allowance for the stained glass is 1/16" greater than the size listed to allow for ease of installation, out of square issues and for expansion and contraction. Sold ready to finish.



**Pairs Pre-Cut Oak Frame:**

<b>8920-1004</b> 10" Pair	<b>8920-2404</b> 24" Pair
<b>8920-1204</b> 12" Pair	<b>8920-2604</b> 26" Pair
<b>8920-1404</b> 14" Pair	<b>8920-2804</b> 28" Pair
<b>8920-1604</b> 16" Pair	<b>8920-3004</b> 30" Pair
<b>8920-1804</b> 18" Pair	<b>8920-3204</b> 32" Pair
<b>8920-2004</b> 20" Pair	<b>8920-3404</b> 34" Pair
<b>8920-2204</b> 22" Pair	<b>8920-3604</b> 36" Pair

# Framing

## FRAMING HARDWARE

**8943-1127**

### Brass Framing Screws



These easy to use framing screws are made of brass-plated steel and are sold four per set.

### Hooks

These heavy duty hanging hooks for wood frames come in two decorative styles: bent hook and roll hook. Each hook is attached to the frame with four screws to give strength and security to support stained glass panels.

**8941-RHHA**

### Roll Hooks

2 roll hooks and 8 screws per pack.



**8941-BHHA**

### Bent Hooks

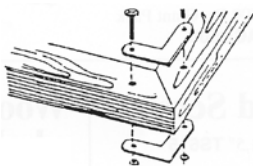
2 bent hooks and 8 screws per pack.



**8873-0104**

### Brass Corner Brackets

Set of eight 90° brackets with eight nuts and bolts for one complete rectangular frame. Brass plated steel.



## FINISHED OAK FRAMES BY MCNEIL

Highest quality round, oval, rounded rectangles and specialty frames..... Solid Oak..... Rounded Face .... Sanded Smooth..... Naturally Finished. Designed & fabricated specifically for framing stained glass panels.

### ROUNDS: MITERED & SPLINED

Catalog Number	Opening For Glass	Frame Width
<b>8900-1296</b>	12-1/8"	1-3/4"
<b>8900-1596</b>	15-1/8"	2"
<b>8900-1696</b>	16-1/8"	2"
<b>8900-1896</b>	18-1/8"	2"
<b>8900-2096</b>	20-1/8"	2"
<b>8900-2296</b>	22-1/8"	2"



Catalog Number	Opening For Glass	Frame Width
<b>8900-2496</b>	24-1/8"	2"
<b>8900-3096*</b>	30-1/8"	2-3/8"
<b>8900-3696*</b>	36-1/8"	2-3/4"

\*The 8900-3096 and 8900-3696 frames are too large to ship by UPS.

### OVALS: MITERED & SPLINED

Catalog Number	Opening For Glass	Frame Width
<b>8901-1096</b>	17-1/2" X 28-3/8"	2"
<b>8901-2096</b>	16-1/8" X 20-1/8"	2"
<b>8901-3096</b>	13-3/8" X 23-7/8"	2"
<b>8901-4096</b>	12-7/8" X 20-3/8"	2"
<b>8901-5096</b>	12-1/8" X 16-1/8"	2"



"Mitered & Splined":  
These frames are "straight-grained" matched.

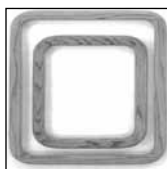
### OVALS: PIN-ROUTED

Catalog Number	Opening For Glass	Frame Width
<b>8901-A096</b>	12-1/8" X 22-7/8"	2"
<b>8901-B096</b>	7-5/8" X 18-1/2"	1-3/4"
<b>8901-C099</b>	5-1/8" X 14-3/4"	3/4"
<b>8901-F096</b>	8-1/8" X 12-1/8"	1-1/2"



"Pin-Routed":  
These concentric frames are cut from one wood panel. More economical than "mitered & splined".

### ROUNDED SQUARES & RECTANGLES: MITERED & SPLINED



Catalog Number	Opening For Glass	Frame Width
<b>8905-1296</b>	12-1/8" X 12-1/8"	1-1/2"
<b>8905-1696</b>	16-1/8" X 16-1/8"	1-1/2"
<b>8906-1196</b>	11-1/8" X 14-1/8"	1-1/2"
<b>8906-1696</b>	16-1/8" X 20-1/8"	1-1/2"



## CLOCK FRAMES



**8841-9096**  
**Rectangle Clock Frame**  
9-3/4" X 15-3/4"  
Opening for Glass with 1" Frame Width.



**8842-9096**  
**Pendulum Clock Frame**  
9-3/4" X 21-3/4"  
Opening for Glass with 1" Frame Width.



**8843-1396**  
**Octagon Clock Frame**  
13-3/4" Opening for Glass with 1" Frame Width.

FINISHED OAK FRAMES BY MCNEIL



**8903-1296**  
**Circle in Square**  
 12-1/8" Opening  
 for Glass with  
 1-1/4" Frame  
 Width.



**8902-1296**  
**Near Oval**  
 12-1/8" X 20-1/8"  
 Opening for Glass  
 with 1-1/2" Frame  
 Width.

**8907-2496**  
**Half Round with Shelf**



24-1/8"  
 Diameter  
 Opening for  
 Glass with  
 2" Frame  
 Width.



**8904-1296**  
**Cathedral**  
 12-1/8" X 35-  
 1/8" Opening  
 for Glass with 2"  
 Frame Width.



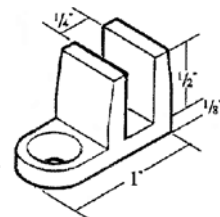
**8909-1296**  
**Cathedral with  
 Shelf**  
 12-1/8" X 30-  
 1/8" Opening  
 for Glass with 2"  
 Frame Width.

HARDWARE

"DESIGNERS" CLIP

Made to secure lead or foil panels to existing windows. Heavy-duty clear acrylic clips screw into surrounding frame or drywall. Screws not included.

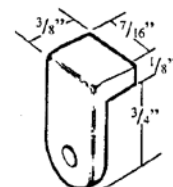
**8924-0314**  
**DESIGNER MINI**  
**CLIP-** For Zinc or  
 Lead (1/4" opening).  
 Pre-packed 25 each.  
 (DGC-3)



Cabinet Clips

Used for the installation of glass and art glass in cabinet doors.

**8925-0314**  
 Designer Cabinet glass  
 clip - Clear - Pre-packed  
 25 each. (DGC-4).



**8928-0104** ADJUSTABLE CABINET  
 CLIP Metal clips will hold mirror or glass  
 panel into existing  
 wood frames. Clip  
 has padded foot to  
 protect glass and  
 can compensate for  
 differences in rabbet depth and glass  
 thickness. Four per pack.



HANGERS

SUNCATCHER HANGING WIRE AND CONNECTORS

Black hanging line and crimps for a neat clean way to hang and display your suncatchers and small panels. Run the wire through a connector, then through the hanging loop of the suncatcher and back through the connector and crimp with pliers.

- 1629-1127** 20 lb hanging wire, 30 ft
- 1629-2127** 24 Connectors



**1627-1085**  
**HANDY HANGERS**

Package of 12 brass hangers which can be soldered directly to your piece.



**1628-1085**  
**HANDY HANGERS** Package of fifty.

HANG-UPS

Decorative Lead Corners which can be soldered on to hang your stained glass pieces.



- 1623-0875** Flower
- 1624-0875** Leaves
- 1625-0875** Carved Corner
- 1626-0875** Deco

# Hardware

## CHAIN

For hanging projects, box lids, glass edging. Illustrations not actual size.



### Small Box Chain 1/8" link

- 1644-B102** Brass Plated & Lacquered 10' Length
- 1644-B502** Brass Plated & Lacquered 50' Hank
- 1644-C102** Copper Plated & Lacquered 10' Length
- 1644-C502** Copper Plated & Lacquered 50' Hank
- 1644-N102** Nickel Plated 10' Length
- 1644-N502** Nickel Plated 50' Length



### Medium Jack Chain 3/8" link (18 gauge)

- 1640-B102** Brass Plated & Lacquered 10' Length
- 1640-B502** Brass Plated & Lacquered 50' Hank
- 1640-C102** Copper Plated & Lacquered 10' Length
- 1640-C502** Copper Plated & Lacquered 50' Hank
- 1640-N102** Nickel Plated 10' Length
- 1640-N502** Nickel Plated 50' Length
- 1640-P102** Pewter Plated 10' Length
- 1640-P502** Pewter Plated 50' Length



### Large Jack Chain 5/8" link (16 gauge)

- 1641-B102** Brass Plated & Lacquered 10' Length
- 1641-B502** Brass Plated & Lacquered 50' Hank
- 1641-C102** Copper Plated & Lacquered 10' Length
- 1641-C502** Copper Plated & Lacquered 50' Hank
- 1641-N102** Nickel Plated 10' Length
- 1641-N502** Nickel Plated 50' Length
- 1641-P102** Pewter Plated 10' Length
- 1641-P502** Pewter Plated 50' Length



### Ladder Chain 3/8" link.

- 1646-B102** Brass Plated & Lacquered 10' Length
- 1646-B502** Brass Plated & Lacquered 50' Hank
- 1646-N102** Nickel Plated 10' Length
- 1646-N502** Nickel Plated 50' Length
- 1646-P102** Pewter Plated 10' Length
- 1646-P502** Pewter Plated 50' Hank

## DECORATIVE EDGING



### Flexible Channel Filigree

Solid brass, flexible "spine" bends in both directions. Create a decorative and protective edging for any shape glass or bevels.

- 1605-1007** Sold per foot
- 1606-1007** Sold in 25 foot rolls

## SUCTION CUPS & JUMP RINGS

### Medium

(1-1/2" diameter) Suction Cup w/ Metal Hook.

- 7505-1203** Sold per dozen.
- 7505-BG03** Sold in bags of 100.



*Suction Cup illustration are **NOT** actual size.*

### 1613-1400

**Small** Nickel Jump Ring (1/4" diameter) Sold in bags of 250 each.

### 1613-3400

**Large** Nickel Jump Ring (3/4" diameter) Sold in bags of 25 each.



### 1613-1532

**Medium** Nickel Jump Ring (15/32" diameter) Sold in bags of 100 each.

*Jump Rings illustrated are not actual size.*

## BOX HARDWARE

### Tube Hinges

- 1620-0069** 1/16" x 12" Inside Brass Tube
- 1621-0069** 3/32" x 12" Outside Brass Tube
- 1622-0069** Pair of Inside & Outside Tubes (above)

**1622-0069** Illustrated - Not Actual Size

### Butt Hinges

Solid brass hinge. Used to hinge lid onto boxes or other projects. Two sizes available.



- 1617-0069** 7/16" Height (as pictured).
- 1618-0069** 5/8" Height

*Butt Hinge illustration is **not** actual size.*

### Solid Brass Ball

Use as corner ball feet for boxes and other projects.



- Two sizes available:
- 1610-0069** 1/2" Diameter
- 1611-0069** 3/8" Diameter

*Brass Ball illustration is **not** actual size.*

### Corner Feet

Ornate, 1" high. Attach to corner of boxes or other projects. Two types available: brass or steel.



- 1619B-069** Brass Corner Feet
- 1619S-069** Steel Corner Feet

*Corner Foot illustration is **not** actual size.*

**FOIL**

**COPPER FOIL**

Cat. No.	Width
<b>3 MIL:</b>	
<b>1658-0145</b>	3/8"

**NEW WAVE FOIL**

<b>1665-BR45</b>	Brass (both sides)
<b>1775-H497</b>	Silvered New Wave



**BRASS FOIL**

Brass Foil (both sides) is used when you wish to show the brass finish through cathedral glass or is used as a base for electroplating. Available in 1 mil thickness only.

Cat. No.	Width
<b>1666-0145</b>	3/16"
<b>1667-0145</b>	7/32"
<b>1668-0145</b>	1/4"



**CORNER BLOCKS**

Oak or Walnut - Unfinished. Easy to create wood frames for a wide range of custom sizes. The frames offer a number of design options.

**Corner Blocks®** use dowel construction, so packs of Frame Sides are pre-drilled to accept dowels.

<b>8935-0104</b>	Oak
<b>8936-0104</b>	Walnut



**MISCELLANEOUS**

**FELT SHEET**

**1691-0145**  
Self adhesive, protective 12" x 12" Felt Sheet. Apply to lamp bases, jewelry boxes, desk accessories and more!



**1692-0145 MOUNTING TAPE**

Double faced paper Mounting Tape. Use for temporarily holding patterns, glass & forms. Removes cleanly. 1/2" x 36 yards.



**MOSAIC MOUNT™ BY VENTURE TAPE**

**1679-0145**  
Heavy duty glass/stone assembly tape. Tough: Will Not Tear. Features Superior Adhesion so your glass will not shift. Releases Cleanly and leaves no residue. Measures 4.0 mil x 20 inches x 10 feet.



**LEAD PLATE**

Copper patina for lead.

<b>1768-0106</b>	8 oz.
(can ship UPS Ground - ORM-D)	
<b>1770-0106</b>	1 Gallon
(cannot ship UPS - can ship freight)	



Lead Plate

**ZINC PLATE**

Copper patina for zinc.

<b>1771-0106</b>	8 oz.
(can ship UPS Ground - ORM-D)	
<b>1773-0106</b>	1 Gallon
(cannot ship UPS - can ship freight)	



Zinc Plate

**Small Suction Cup**

(3/4" diameter)

<b>7507-1279</b>	Sold per dozen.
<b>7507-BG79</b>	Sold in bags of 100.



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