



Level of design:
Intermediate

COLD ENAMEL EARRINGS

By Chris Jorgensen

What you'll need:

30x Sterling Silver Rectangular Tube Runners	QSA 515
0.60mm Sterling Silver Sheet	CSA 060
Hard Silver Solder Strips	CTD 500
Easy Silver Solder Strips	CTB 500
Pack of Sterling Silver Silicone Sliders	NVL 029X
Pack of Sterling Silver Peg & Flat Discs	NVJ 061X
Blu-Tack	
Greenlion Jewellers Saw Frame	997 3322

12 Grade 4/0 Saw Blades	972 080
Stainless Steel Tweezers	999 985
Iron Binding Wire	998 101
Natural Charcoal Block	999 970
2x 2" Square Scorifiers	999 AKP
Ring Clamp	999 AKX
Medium 320 Grit Triangular Emery Stick	999 FAP1
Medium 240 Grit Flat Emery Stick	999 FAG2
Cut 2 Pillar Needle File	997 2802
Cut 2 Three Square Needle File	997 2813
Cut 2 Barrette Needle File	997 2805
Maun Flat Pliers	999 644
Coarse Abrasive Rubber Block	999 CFI
Grade 240 Emery Paper	973 040
Platinol Oxidising Solution	998 161
Renaissance Wax	998 018R
Woven Mesh Rack	860 092
Scales	999 88Y
Pack of Mixing Cups	860 133
Pack of Mixing Sticks	860 132
Clear Epoxy Doming Resin	860 040B
Epoxy Doming Resin Hardener	860 041B
Epoxy Enamel Opaque Turquoise Paste	860 034P

1: WORK OUT THE DESIGN

Use some blue tack to secure the tube runners with tweezers whilst working out your design.

**2: SOLDERING**

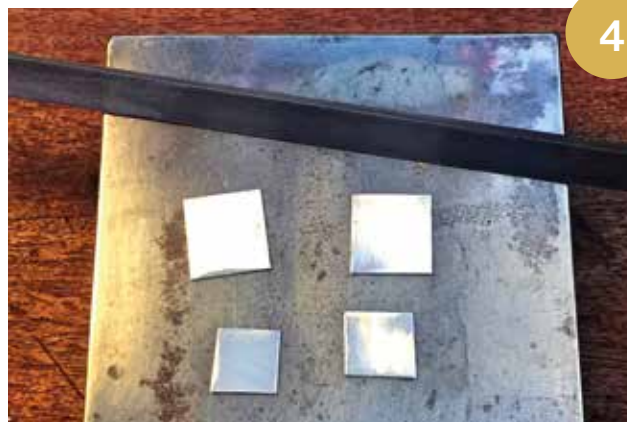
Solder the elements together using hard solder on a hard soldering surface, for example, a scorifier.

**3: LEVEL OFF**

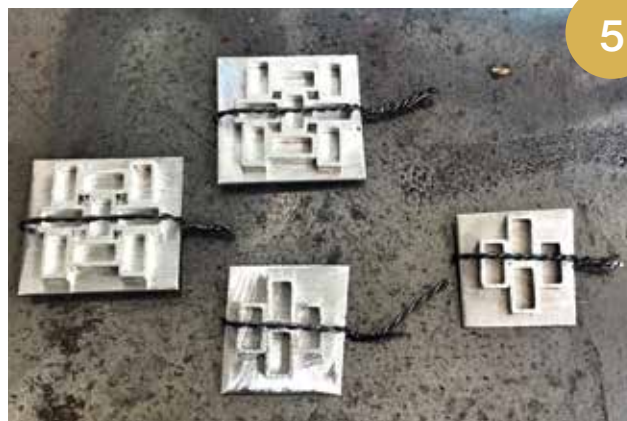
Lay the sheet of emery paper on a flat surface and level off the solder side of the components.

**4: CLEAN THE SHEET**

Saw-pierce four pieces of the sheet for the base slightly bigger than the pieces. Clean the sheet with the three square emery stick.

**5: BINDING**

With the binding wire, secure the pieces to the sheet.

**6: SOLDER**

Solder the pieces to the sheet using easy solder.

7: REMOVE THE SURPLUS

Saw-pierce around the components to remove the surplus metal.



8: CLAMP AND FILE

Clamp the pieces in a ring clamp and file all the edges using the needle files.



8

9: SOLDER THE PEG

Solder the peg and flat disc with easy solder onto the smaller section (sheet side) on the charcoal block.



9

10: ALIGN

Align a tube runner to the larger components face up and solder with easy solder.

11: SOLDER

Align a tube runner side on to the smaller components and solder with easy solder.

12: SECURE

Secure the side soldered runner with the flat nose pliers (sheet side) and pierce through the middle of the runner. Carefully open the runner away from you and attach the larger element. Close the runner again and solder with easy solder.



12

13: CLEAN UP

Clean up the pieces with the three square and flat emery sticks and texture with the course abrasive rubber block.



13

14: OXIDISE

Oxidise the earrings using the Platinol Oxidising Solution using a Q Tip, then clean with hot soapy water and leave to dry.



14

15: MEASURING

Place the earrings on the wire mesh. Weigh out 1g of resin and 0.5g of hardener into a mixing cup and mix thoroughly with the mixing stick. Leave to rest for a few minutes to allow the bubbles to disperse.

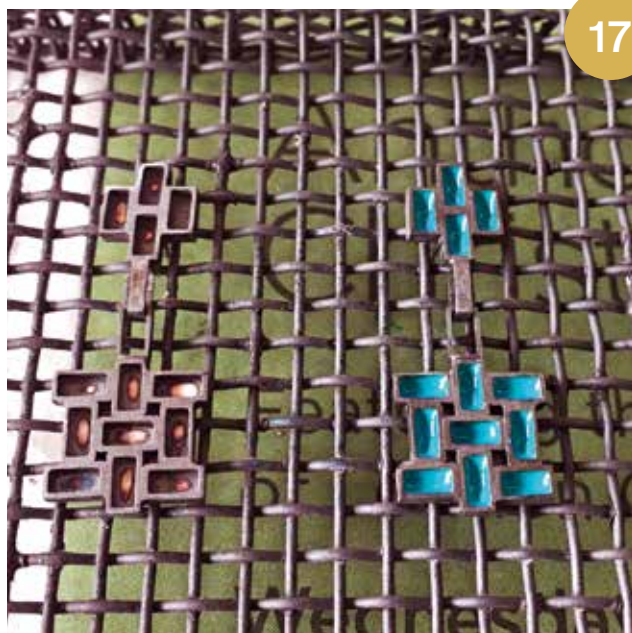
16: MIX THE RESIN

Add 5% (just under 0.1g) of the turquoise colour pigment to the resin/hardener and mix slowly.



17: FILLING THE RECTANGLES

With the flat end of the 4/0 saw blade lift out small amounts of the cold enamel and apply to all the recesses. Fill up the rectangular apertures partially or level to the top depending on preference.



18: CURING

Apply a test blob to some cardboard and cover together with the earrings to protect from dust whilst curing. Curing time depends on the ambient temperature but will be between 12 and 36 hours.



19: FINISHING

Finally, apply a small amount of renaissance wax to all of the metal areas with a soft cloth and buff to apply a soft sheen and enrich the patina.

