

Sideboard Light “ Pyramide “

Step by step - instruction sheet



The lights from the design line "Sideboard Lights" consist of two separate parts, the light and the light base.

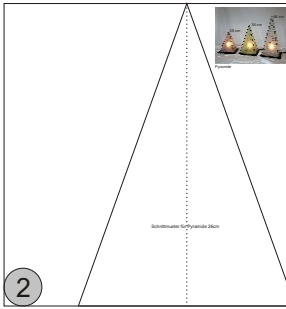
This instruction sheet is concerned with the light .

The instruction sheet for the light base you find here:

<http://www.inspiration-for-glass.com/english/download/detailed-instruction-sideboard-light-base.pdf>



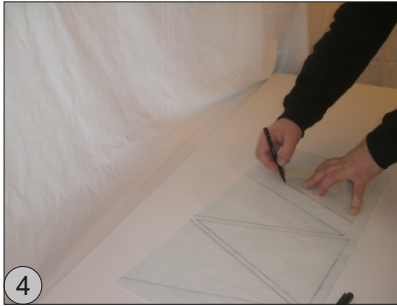
Sideboard Light
"PYRAMIDE"
step by step..



download
the pattern
with information
about the materials



Your personal
selection of glass,
here:
Spectrum 6000-81CC
white CC-texture
semi-transparent



Transfer the stencil
with a pen (3650500)
on the glass.



Cut the
Glass along a
stable ruler.

! Along the straight
edge run the
Glass cutter
towards you!



After you scribed the
Interface with the
glass cutter,
just break the
Glass strips
on the work surface



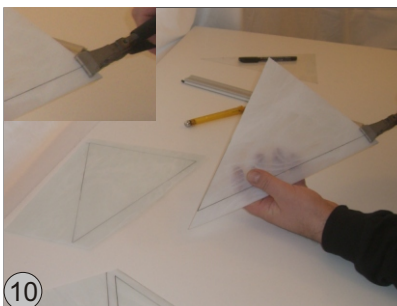
.this is the ..
cut point
just above the
Edge of the table -
press the free end
of the glass strip
down slightly ..
cracking - the average
is open ...



.... of course you can
use glass breaking
pliers to open
the interface

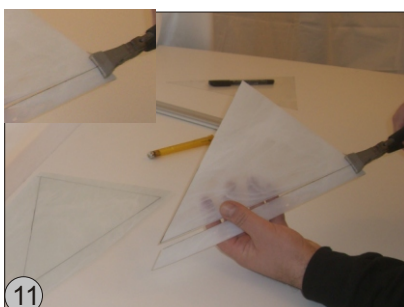


Now cut
the marked
Glass parts ..



Use glass breaking
pliers, also called cut
running pliers, for
opening (breaking)
the interface.

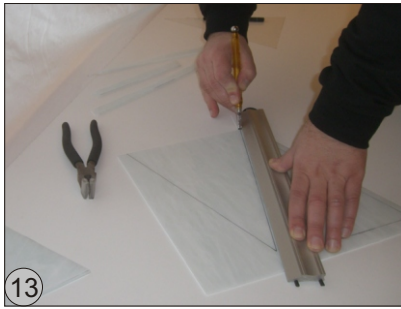
! Hold the pliers
correctly - internal arc
up!



Gently pressing the
to pliers is enough,
to open the cut.



when cutting
along an angle
or ruler, set the
glass cutter above
the cutting area
and pull the
towards you.



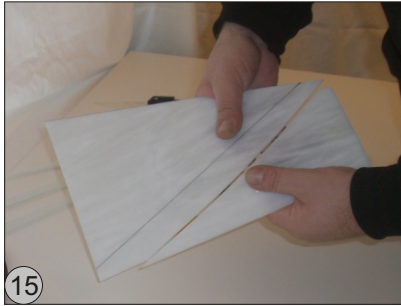
Pull the Glass cutter below across the border, at edge.
- This way the average can be taken apart more easily.

13



Here it makes sense to cut off some stuff with a coarse cut, before you give the glass pieces exact cuts

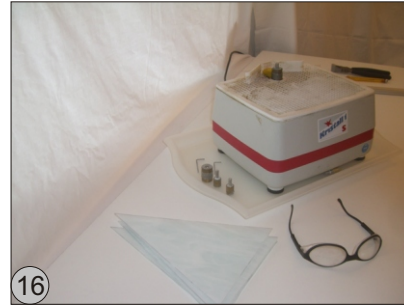
14



With a little practice you can take off the pieces by hand.

Cracking sound and the part is off ...

15



In the next step sand off the parts using a glass grinder. Be sure to use enough Water while grinding. The grinding head must not run dry.

16



Grind a slight bevel on the longitudinal sides of the Pyramid segments.

17



Due to the miter, the upper edges of the side parts now lie closer together, while building the pyramid. Seams become automatically narrower.

18



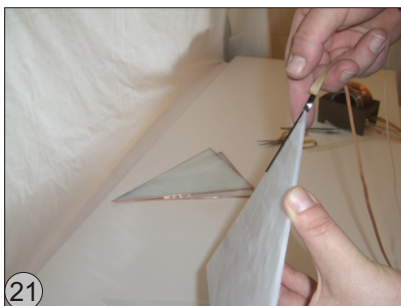
.. very important .. wash the glass parts off with water after the sanding. This is the way to clean off the glass parts from sanding dust and abrasive slurry.

19



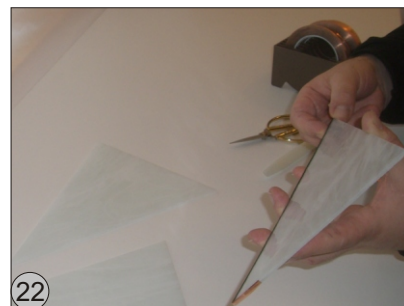
Dry the glass parts thoroughly, before you continue with the next step.

20



Now, any part with self-adhesive copper foil will be edged. Insert the foil with the index finger centered around the glass and slightly press the foil onto the sides.

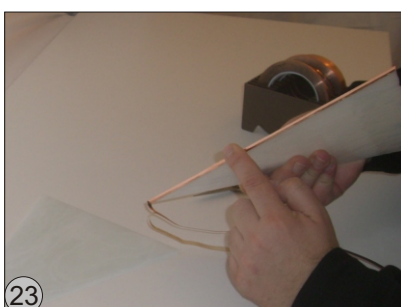
21



Be sure that the glass sticks in the middle of the foil.

Let the end part overlap about half a centimeter.

22



Now, press the foil firmly around the Edges ...

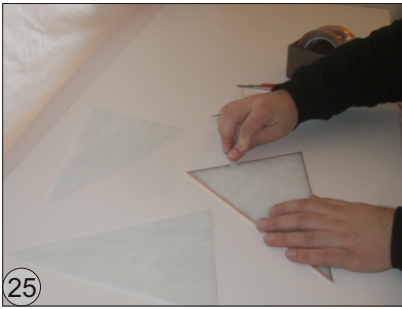
... the easiest way is to slide with thumb and Index finger along glass edges.

23

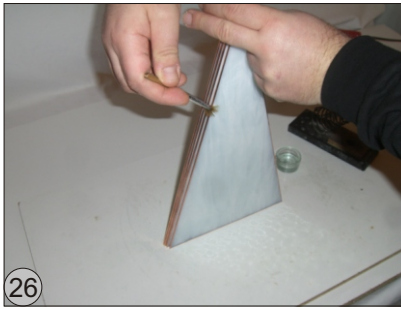


Now in the next step the copper foil must be firmly pressed to the glass by help of a plastic foil presser.

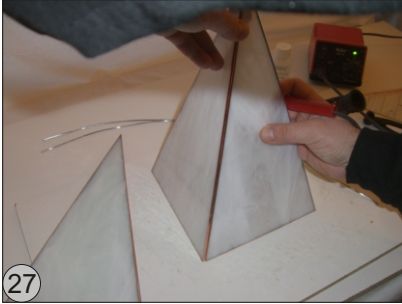
24



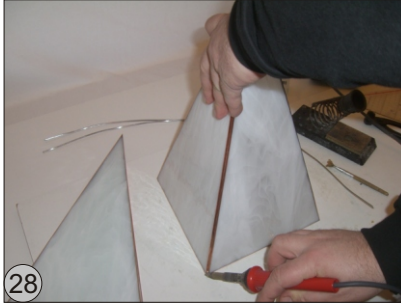
Press the foil to the sides.



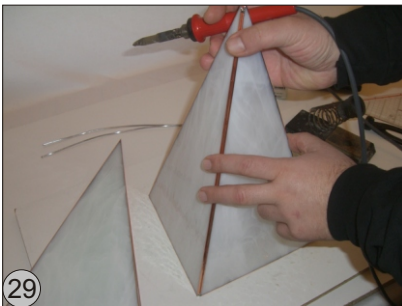
Brush the copper foil surfaces with flux, so that you can solder the glass parts next.



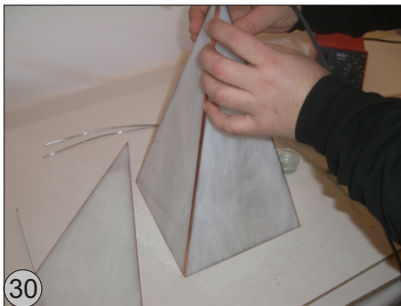
Hold the first two pieces of glass in the correct position...



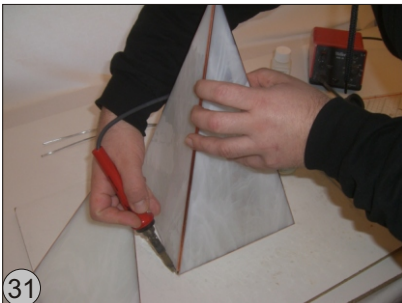
...and fix the two parts at the upper and lower edge with a drop of solder.



now position the third side



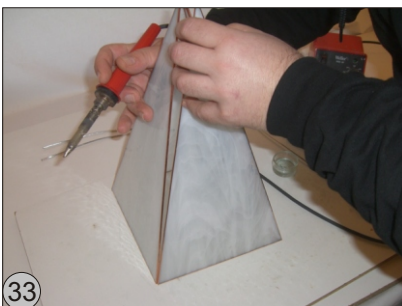
with one hand you hold the parts together and with the other...



... place a small solder dot at the bottom. By that you still can change some solder joints if the setup runs out of the angle.



to the stability set a solder dot at the top as well..



Now insert the last side, also fix it first with only a few solder dots.



Check with a protractor or angle, if the pyramid is in square shaped below. If necessary, adjust, loosen it and change the set solder points.



Now roughly solder the sides.



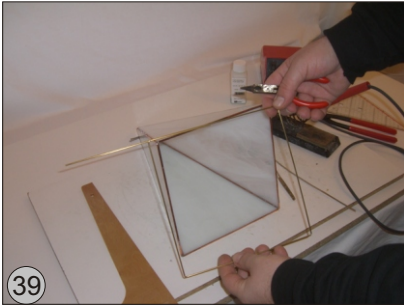
The seams are nicely soldered again later - now this is for the stability only.



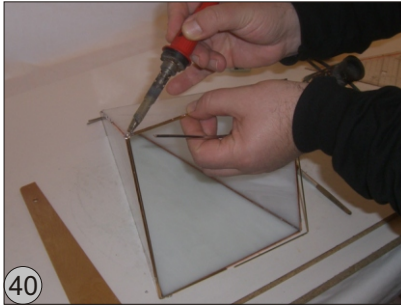
roughly tin the sides...



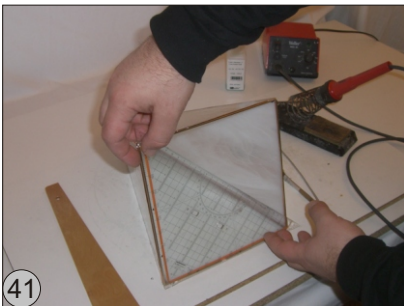
For sufficient stability of the pyramid provide a self-made tinned brass tube 2mm (4253000) bended framework.



Make sure the frame is in size of a square .



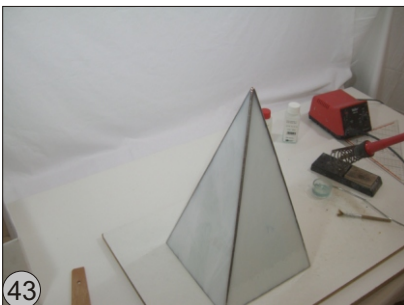
The frame now will be soldered first with some solder joints at the bottom of the pyramid.



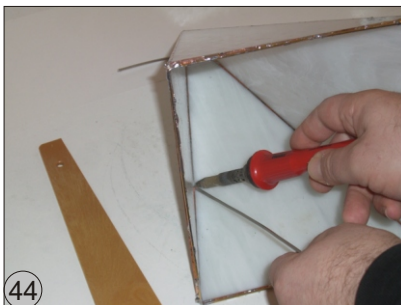
Now check again whether the pyramid is adjusted at the right angles. This is important because otherwise it will not stand right later on.



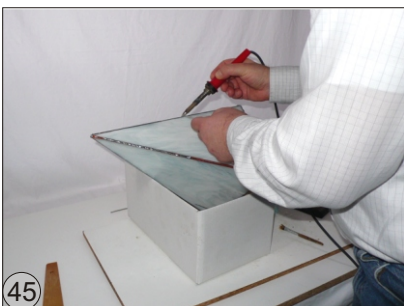
Now solder the lower frame roughly good - final fine solder comes later.



Now the rough soldering is completed and you can start with the fine soldering ..



First solder the pyramid from the inside.



So that you can solder the side seams as evenly as possible, it should be soldered in horizontal position.

Here, an empty cardboard box can be taken to help.



If the pyramid lays in a cardboard box or similar, you have both hands free to work unhindered.

First, add enough solder to the seam.



Finally, trace the seam with a little tin to end up at a very regular round solder seam. Please don't solder at too high temperature. Usually about 350 ° C gives a nicer result than 400 ° C or more ..



Pull the soldering iron without lifting ..

so the solder seam will become most evenly.



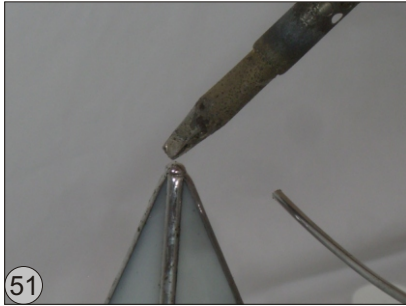
Check that the pyramid is still standing in the right angle and then solder the bottom to clean.

49



Place a drop of solder on the top.

50



.. better a bit more..

51



Finally, adjust the top (without additional solder) .. only heat the sides of the top a bit..

..so you get a clean finish.

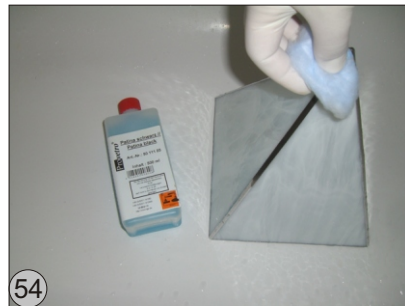
52



Now wash the lamp with shampoo, to wash off the solder seams and glass surfaces from flux residues.

rinse with a lot of water after..

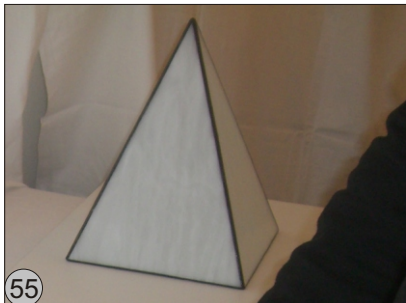
53



You can patina the soldered seams. - then after that, wash the lamp again with plenty of water !

You also may leave the seams in tin color...

54



Now the lamp is finished !!! at least the upper part.

The next step is to build the light base.

(See separate instructions)

55

The instructions for the lamp base can be found here:

<http://www.inspiration-for-glass.com>



A pyramid with subdivided sides is made basically just like a pyramid, which consists of only four pieces of glass. For the pyramid with divided sides, each side will initially be soldered ready first - from both sides - front and back. Then the four sides are assembled, as described in this instruction.



Especially recommended for the pyramid's base is the glass 1009 chord 6mm (7020560) from Spectrum. Despite the thickness of 6mm and the structure of this glass it is not too difficult to cut !