

BOX TO PRINT AND BUILD YOURSELF, IN STRONG LAMINATED PAPER



*Box for Breton bombarde reeds
(for six reeds)*

SECANDA

n° 16.10.b61e - v.1.a

Box for Breton bombarde reeds (3 reeds)

This reeds box is an addition to the free document “Bombarde How to”, which is freely downloadable at: <http://biniou-bombarde.stalikez.info>

Although entirely in paper, this box is very strong because of its laminated building, so it effectively protects your reeds.

Building tips

1. CHOICE OF THE PAPER

Use A4 paper of good quality, weight **160 gr**, otherwise the box won't be strong enough.

2. PRINTING THE PLATES

Print the plates as “real size” (100%), otherwise the reeds may not go into the box.

3. CUTTING THE PARTS

Several possibilities may be combined:

With scissors. Use long scissors for straight cuts and small fine scissors for small contours and recesses (embroidery scissors or better, wire cutters medical scissors).

With a scalpel on a cutting plan. Prefer a self-healing cutting plan (see the hobby shops), otherwise an old tray calendar will do. For straight cuts, guide the knife with a metal ruler.

4. MARKING THE FOLDS

Several possibilities to combine:

Folding on a rigid straight edge (double decimetre, straight blade knife...) while marking the fold at first with the finger then with the nail.

Marking with a thin blunt point (old ballpoint pen with *fine point*, needle, tip of a knife, etc.) guided with the rule.

Marking with superficial incision of the paper (scalpel, tip of a knife, guided with the rule).

5. GLUING

Use vinyl white glue (office glue or wood glue) or similar.

Spread glue in a thin layer with a brush without lack or excess.



Building the reed box

IMPORTANT: before building this box, check if an updated version is available at:
<http://secanda.stalikez.info>

LEGEND OF THE PART PLATES:

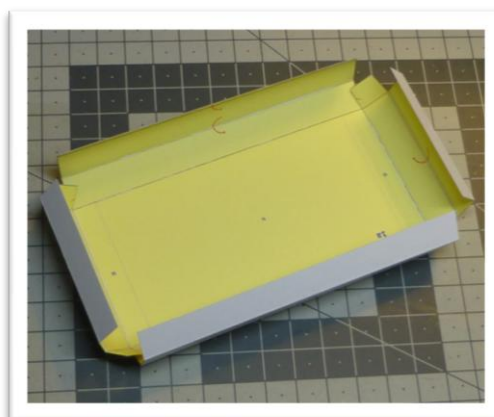
The number of each part is printed in **bold blue** on the part or near of it.

The small **fine blue** numbers (if present) show the number and location of another part to glue.

Follow this building order:

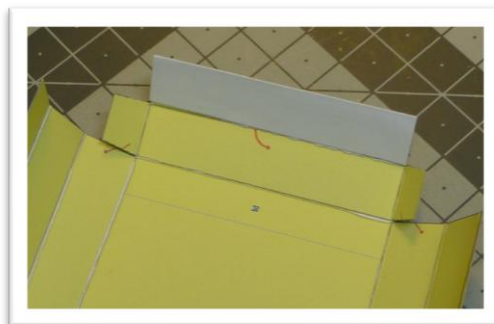
1. Building the drawer body

Mark strongly all the folds of the part **1a** with the yellow face inward the folds:



Fold down and glue the small sides onto themselves (first pane of the flap).

Press firmly the gluing.



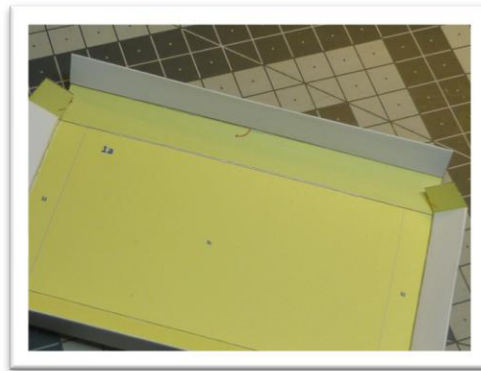
Fold down again and glue the small sides onto themselves (second pane of the flap).

Press firmly the gluing.



Fold down and glue the big sides onto themselves (first pane of the flap).

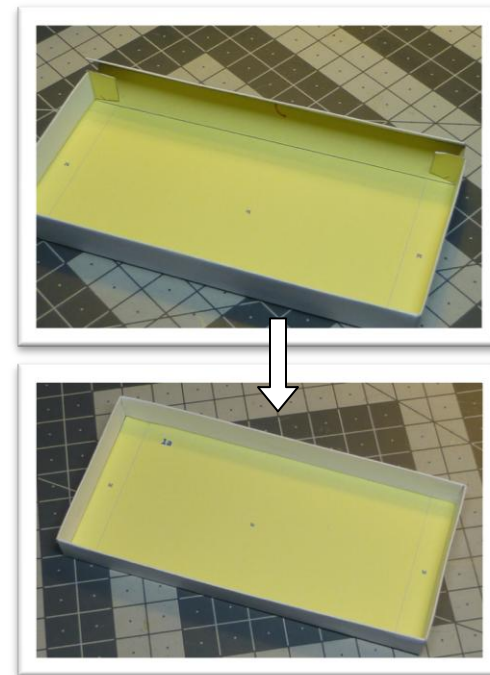
Press firmly the gluing.



Fold down again and glue the big sides onto themselves (second pane of the flap) while trapping the tabs of the small sides.

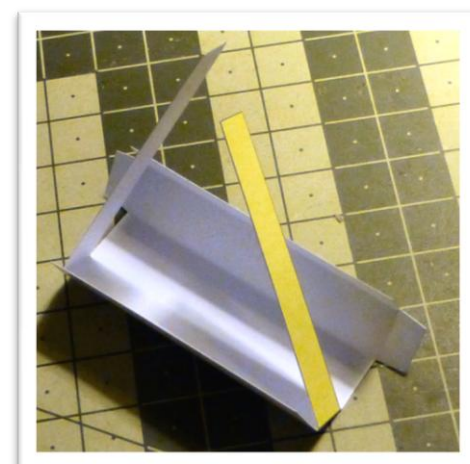
Take care to the squareness of the corners!

Press firmly the gluing (use a blunt tipped object inside the angles) before glue drying.



2. Building the reinforcements of the drawer ends

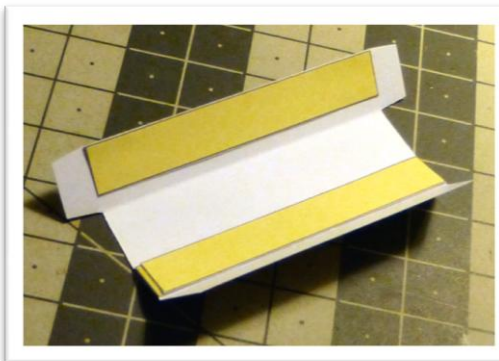
Mark strongly all the folds of the two parts **1d** with their yellow faces outside.



Glue the two long reinforcement tabs by folding down one onto the other.

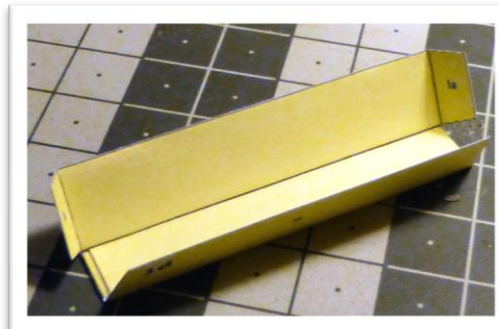


Fold down and glue the pane that is above the two small tabs.



Fold down and glue the pane bearing the two small tabs.

Give the reinforcement a U profile with right angles before glue drying.



Glue the reinforcements: one at each small end of the drawer.

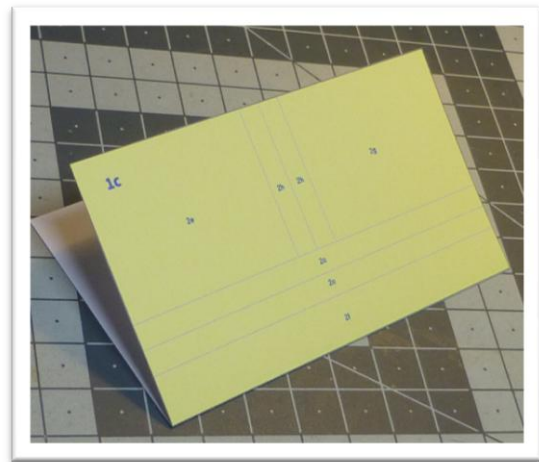
Be careful not to leave any gap between the drawer and its reinforcements.



3. Building the inside of the drawer

Fold the reinforcement of the drawer bottom, part **1c**, with the yellow faces outside.

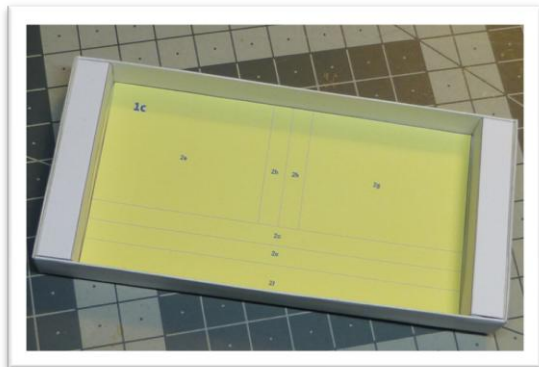
Glue this part onto itself.



Glue this reinforcement onto the bottom of the drawer.

Be careful not to glue it upside down (you must see the parallel thin lines).

Press firmly the gluing (use a blunt tipped object inside the angles).

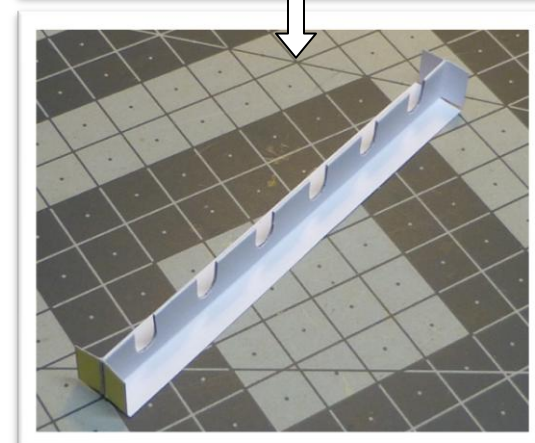
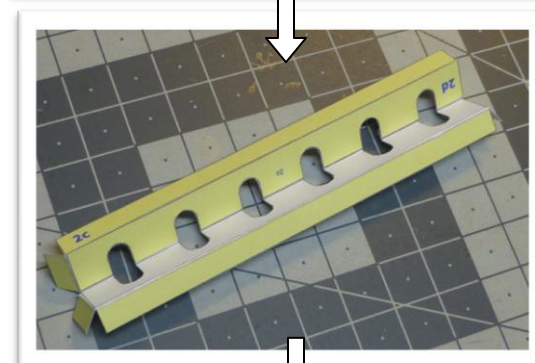
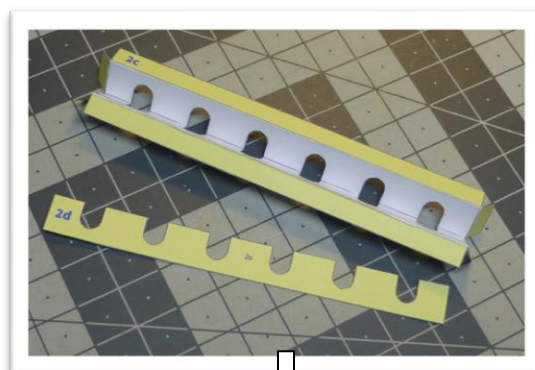


Hollow out the slots of the reed carrier; part **2c**.



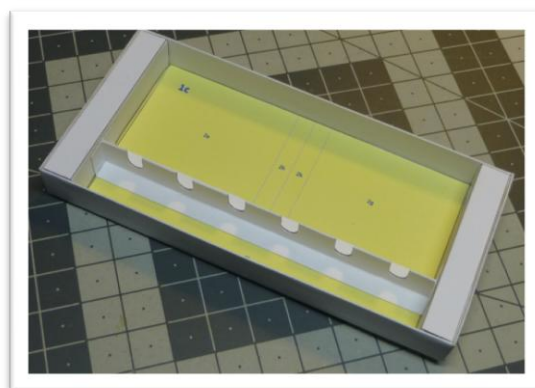
Glue the inner reinforcement of the reed carrier, part **2d**, inside the reed carrier.

Press firmly the gluing.

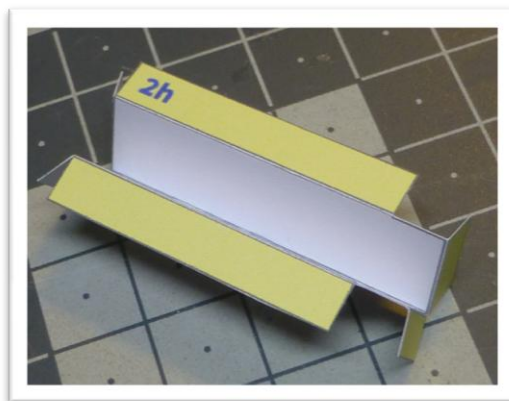


Glue the reed carrier onto the drawer bottom.

There is voluntarily not much lateral space to put this part, so you have to force slightly and well in the axis.



Glue the reinforcement crosspiece **2h** onto itself.

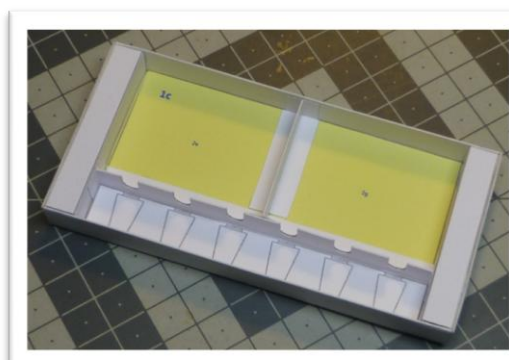


Glue the reinforcement crosspiece **2h** onto the drawer bottom and against the reed carrier.

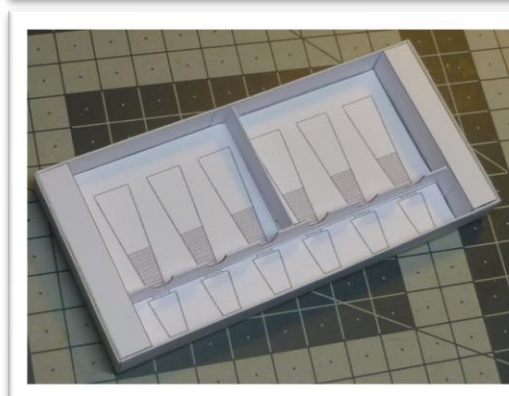


Glue the three decorative reinforcements, parts **2d**, **2e** and **2f**, into the drawer bottom.

Press firmly the gluing (use a blunt tipped object inside the angles).



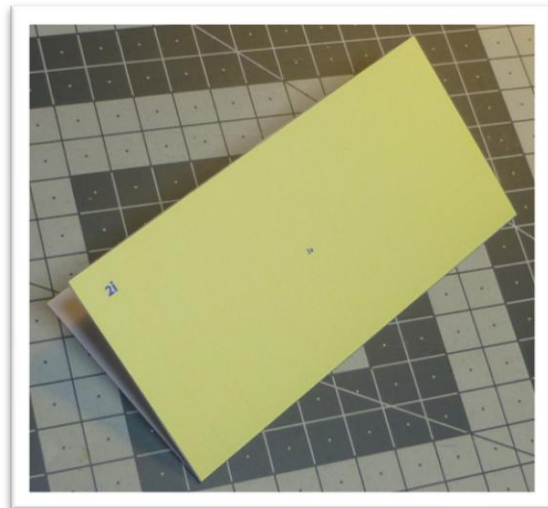
At this point the drawer has been completed. If you see a yellow face somewhere that means you were wrong, print and build a new drawer!



4. Building the cover

Fold the reinforcement of the cover, part **2i**, with its yellow faces outside.

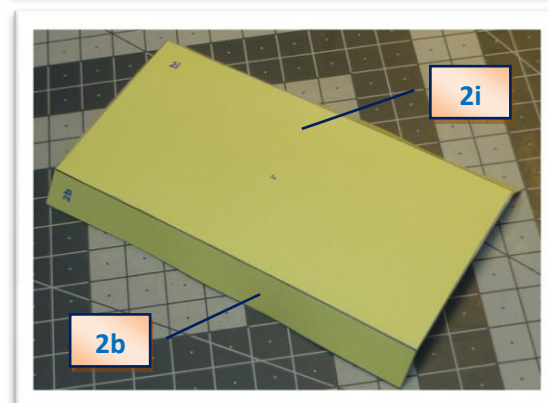
Glue this part onto itself.



Fold the upper part of the cover, part **2b**, with its yellow faces outside.

Mark the folds with moderation.

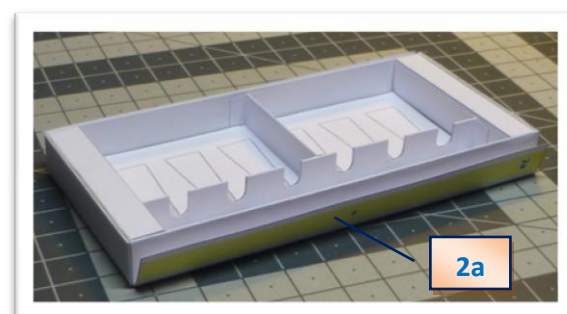
Glue the cover reinforcement [**2i**] onto the top of the cover [**2b**].



Fold the lower part of the cover, part **2a**, with its yellow faces outside.

Mark the folds with moderation.

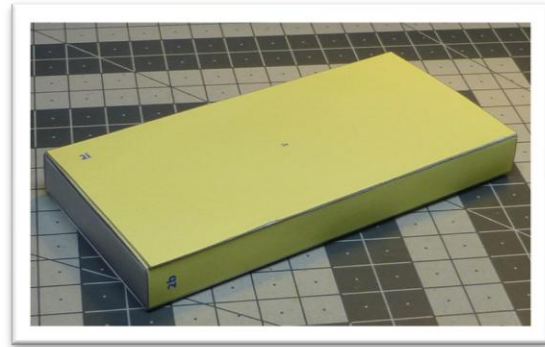
Place the drawer onto the bottom of the cover [**2a**]. Don't glue it!



Glue the upper part of the cover [2b] onto the flanks of the lower part of the cover [2a].

Beware of adhesive burrs that may stick the cover and the drawer... Respect the yellow gluing strip.

Be careful to rightly align the top with the bottom of the cover and leave no space between the drawer and the cover.



Fold the lower part of the skin of the box, part [2h], while marking the folds with moderation.

Glue this part on the bottom of the cover [2a], while taking care not to confuse the top and the bottom of the cover!

Be careful to rightly align this part with the cover.



Fold the upper part of the skin of the box, part [2g], while marking the folds with moderation.

Be careful to rightly align this part with the cover.

Your reed box is completed !

Wait 24 hours before using it, so that all moisture from the glue goes outs and the paper hardens. It keeps fragile during all this time.



Care of the reed box

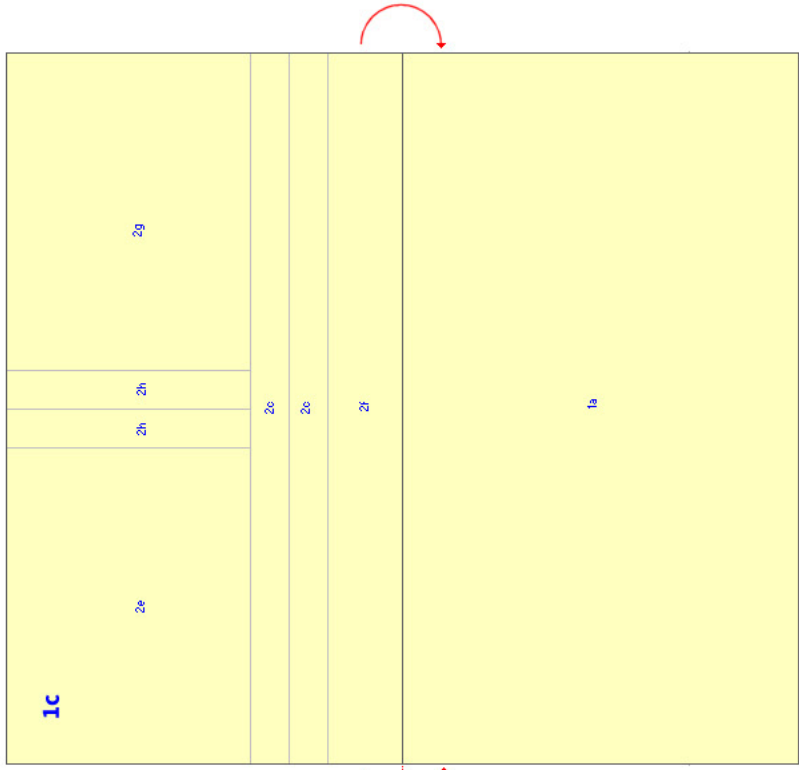
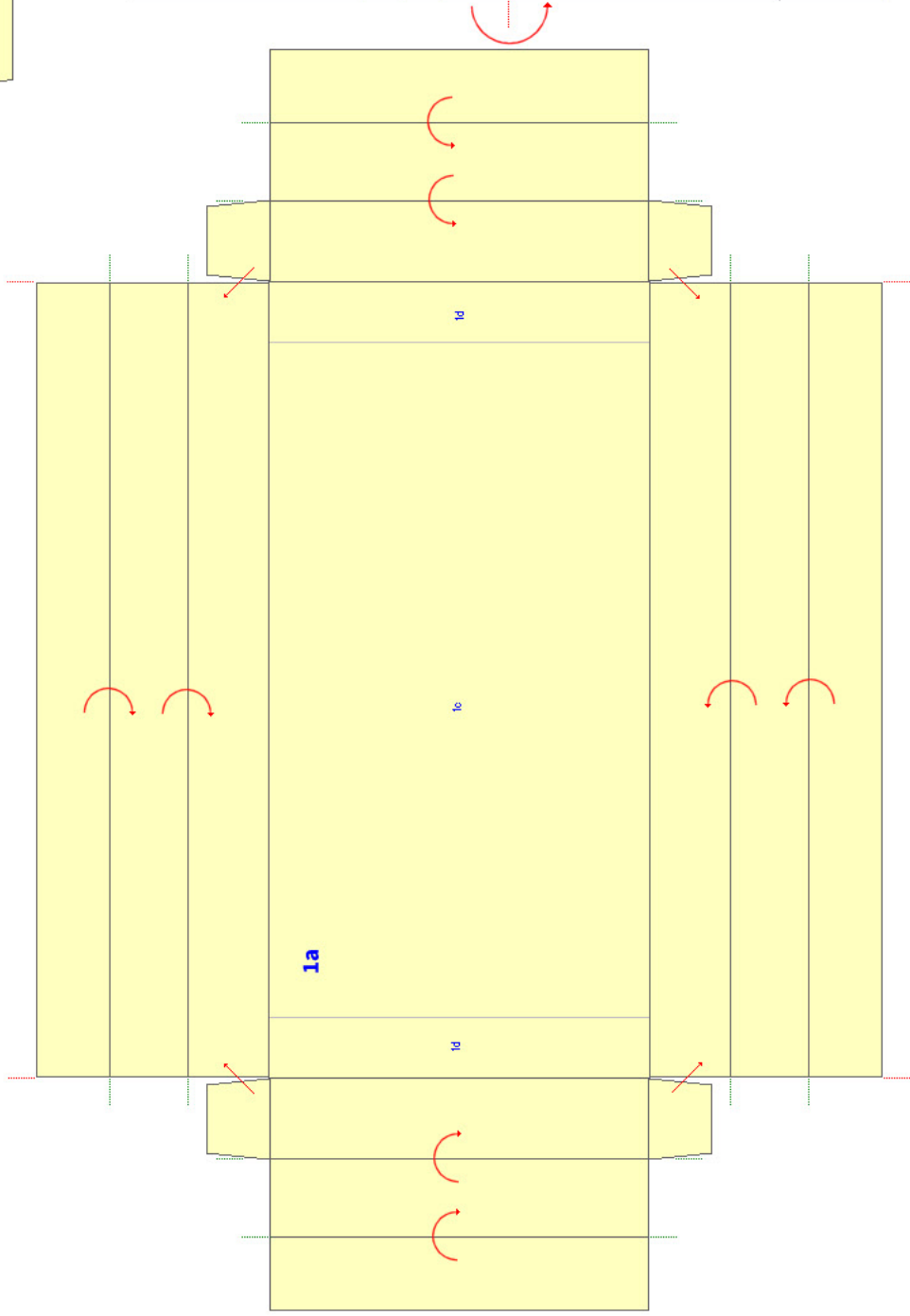
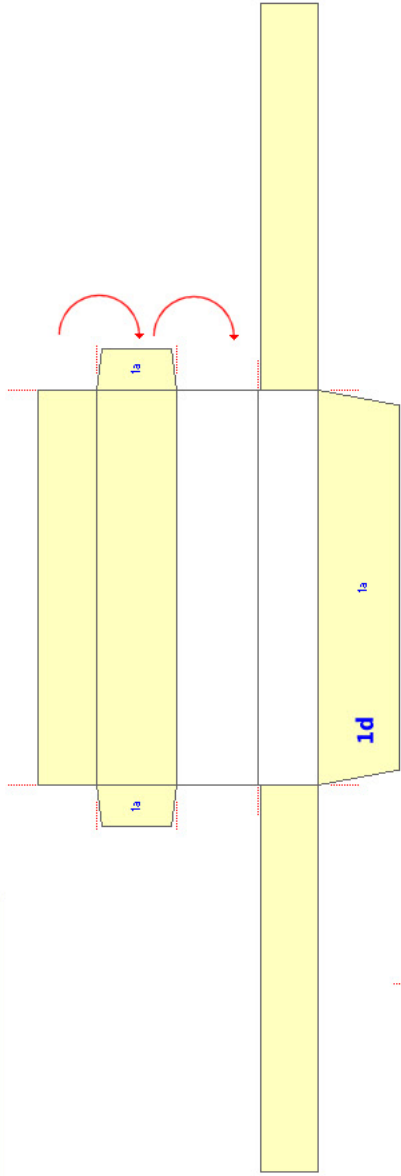
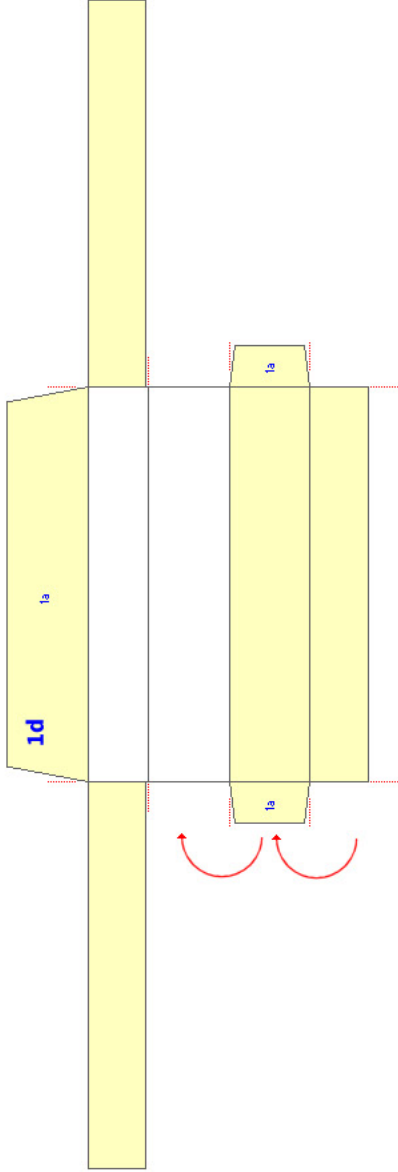
To prevent that paper cover gets dirty and that the printed patterns fade too quickly, it is strongly advisable to apply on the cover a coat of varnish-glue (water-based vinyl varnish, on sale in all hobbyist shops).

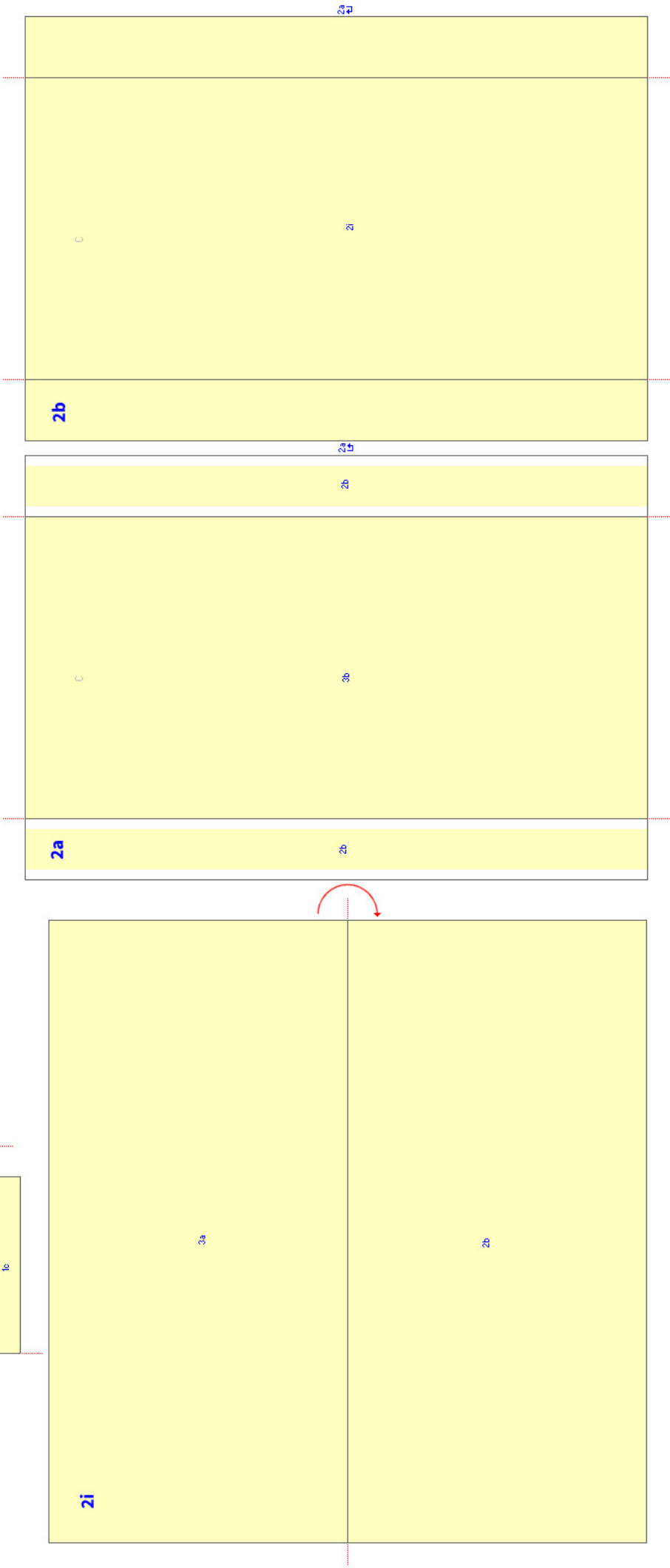
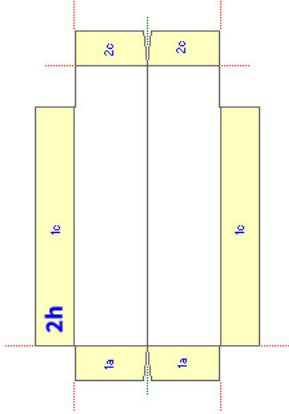
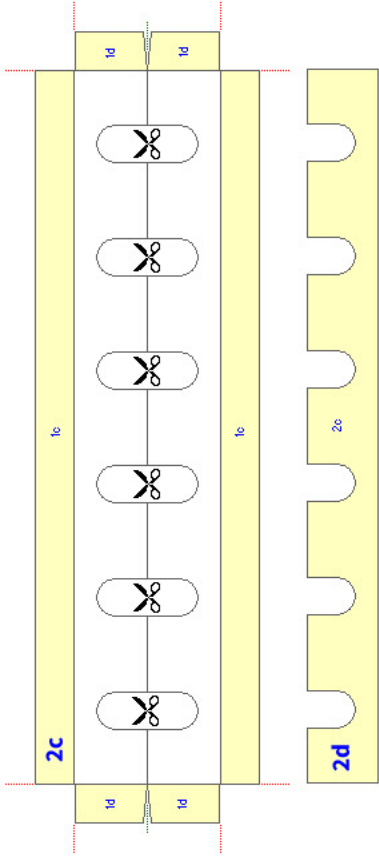
If the reed carrier is deformed or softened, you have just to glue onto it one or two pieces [2d] to rejuvenate it.

If your box has really well lived, discard it and build another one, a few tens minutes are sufficient to make a new one.

Plates to print (3)

Using heavyweight paper (**160gr**) is mandatory.





3a

2a

<http://biniou-bombarde.stalikez.info>



2b

<http://biniou-bombarde.stalikez.info>

2b

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<http://biniou-bombarde.stalikez.info>

3b

3a

If you find this box, please contact:

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2b

3a