

PHILIP. IV. M. V. N. I. F. I. C. I. E. N. T. I. A

# The Golly

Instructions  
Stage 1  
The main building



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12th Scale Miniatures

# INTRODUCTION

The Folly (or Pavilion), in the style of Louis XV, is based on an original building which is located at the entrance to the Parc de Bagatelle Paris. Standing behind ornate gates the Folly is one of the most iconic small buildings France has to offer. With its curved walls, copious amounts of carving and beautiful proportions it is easy to fall in love with her and has been a delight creating in 12th scale.

In kit form the Folly is very easy to assemble. No wood working skills are required. Almost everything that you need to assemble the Folly you will find in your Kit and the easy assembly wont take long meaning you can quickly dive into decorating it. Your Folly has been handmade to order and each Folly will be unique in its manufacture. Therefore we have dry built (without glue) your Folly to ensure that it assembles perfectly then we have disassembled it and packed it individually for you.



## 3D MODELLING

The Folly started life within a computer screen. It has to be the most complicated project that I have worked on to date as it not only involved complex cad work but also an appreciation of architectural proportions. The 3d cad work took place using a modelling package. Imagine a ball of clay in front of you. You can roll, twist, squash, cut, and stretch this ball of clay in order to create your design. Now imagine that you have a ball of clay sitting inside your computer screen. You can lift this ball up and look at it from all angles. You can zoom in to see close up detailing. You can roll, twist, pull, cut this ball into shape. Instead of using hard modelling tools you use your mouse, a pen and a computer programme that allows 3d manipulation of the ball. Once the 3D cad model of the Folly had been created it had to be realised in the real 3D world and for this we used a large format 3D printer. When the master was printed it was cleaned and then moulded using rubber after which resin casts were made and the Folly came to life.

## YOUR IMAGINATION

There can be no better hobby that allows you to escape from real life and become absorbed in so many crafts and new skills than model making. And 12th scale model making opens up so many opportunities to indulge ourselves in the art of “making”. I therefore give you permission to allow your imagination to run riot and create a Folly that is full of ideas, techniques and fanciful daydreams. The building can become anything you wish it to be: a French Bistro, an abandoned building, a haunted house, a library, a wedding venue, a shop, a dressmakers workshop..... it really is a case of letting your imagination have its fun and by doing this you will become absorbed in the moment. For me my Folly has been abandoned. I guess I fell in love with abandoned places when I visited an old abandoned Château a few years ago and the mystery and history of it was intoxicating. What was the world like for the original owners of this 18th Century building and why had it been abandoned and neglected for so many years?

## 3 STAGES

There are 3 stages to creating the Folly:

Stage 1 - the building (this kit)

Stage 2 - the interior

Stage 3 - the grounds

Stage 2 and 3 will be available to purchase separately

## Things to consider:

- Do you want to create an outside area. We have two size bases 60cm x 70cm but you will require the larger one (70cm x 100cm) if you decide you want to build the outside space.
- You will also need to decide if you want lighting and also an internal first floor. You will need to add the first floor at the beginning of the build but this can be removed before attaching the upper floor area.
- There are references to “dry fitting”. This means you assemble the item without using glue. Dry fitting will ensure everything aligns perfectly before gluing



3D print of the Folly wall



Alison & Nigel at the Monkey Château in France - an abandoned chateau which will, one day, come to life in 12th scale!

Alison Davies

# ELECTRICAL WIRING

Imagine that you want your Folly to have lighting. I have to stress that before you assemble your Folly you need to have an idea about what lighting you wish to use and where it will be placed.

The Folly stands on a box and you will need to decide where on the box stand you wish to position the Folly. Once this is established you can then drill a hole in the box so that the wires can be threaded through the building into the box.

## LED

There are a lot of wiring options for you to choose from. If you really don't want to wire the Folly but like the idea of lighting then I would suggest that you take a look at LED lighting. The simple nature of them means that they almost never need to be replaced and most run off small batteries which means no wiring is required.

## ELECTRICAL TAPE V'S WIRE

In my opinion wire wins hands down. It is so much more reliable and easy to install. If you are new to wiring and the whole thing sounds terrifying then spend a few moments online - there are a multitude of different videos explaining wiring.

The wires -

Buy yourself some telephone cable and take away the outer plastic casing to reveal the tiny thin wires inside - these are ideal for wiring your Folly.

I would also recommend Ray Storey for your lighting needs - he does not sell the ornate French lighting that you will probably want but he does have remote controlled systems ready for you to add your wires and can advise you in detail.



*This outdoor lighting can be installed before you begin Stage 3 (which is the exterior).  
If you choose outdoor lights then you will need to drill a hole either side of the main door for the electrical cables.  
The lamps are supplied wired with an LED but they can be supplied in Kit form which means you can change the wiring.*

# YOUR KIT CONTAINS:

## Resin & Acrylic Items:

- 1 x Large roof section
- 1 x Chimney Pot
- 4 x Bulls eye windows with inserts and acrylic glass sheet with template
- 4 x upstairs corners
- 4 x upstairs straight wall sections
- 4 x downstairs curved wall sections with
- 4 x window inserts and 4 x acrylic glass
- 2 x wide straight wall sections
- 2 x narrow straight wall sections

## MDF Items

- 1 large base section consisting of:  
two large top and bottom sections, 2 sides, 1 front, back section in 3 sections
- 1 "footprint" mdf board
- 1 x internal floor jig
- 1 x internal first floor jig
- 2 x internal small walls
- 1 x large internal wall
- 1 x large internal without rebated side
- 4 x door frames
- 4 pairs of doors
- 4 door glass trims
- Jig for door construction

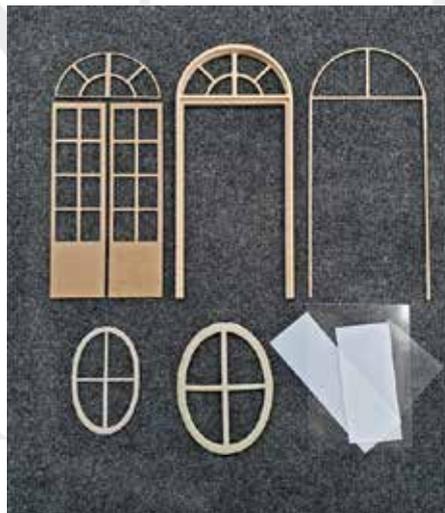
## DIY Items

- Soudal fix all
- Gun applicator for Soudal fix all
- 2 x ratchet straps
- Wood glue (product may vary from image)
- Sanding pad
- 2 x Screws (optional - you can use glue)
- 4 x magnetic door catches with screws



## You will also need:

- Scissors
- Super Glue (Cyano)
- Rubber mallet (optional)
- Tape measure
- Drill and 3mm Drill bit
- Screwdriver (Posihead or Phillips)





## HINTS TIPS AND THINGS TO KNOW

The model has been cast in resin from a mould. With each casting there are always differences and so we dry fit your folly kit to ensure all sections fit together. However you may need to sand a few corners or adjust which panel goes where.

The main body for the building is resin and extra care should be taken when building the Folly. If too much pressure is applied during the fitting stage or if you knock the resin against a hard surface the thin sections could break.

The Folly does not need to be primed or under-coated. Paint can be applied directly to the resin surface. I tend to use acrylics and emulsion paints and like to build up layers of translucent paint in order to achieve depth of colour. I shall be creating painting techniques handbook next year (2020).

Painting mdf can be difficult - the sides of mdf are rough and no matter how much you sand them they remain rough. The trick is not to sand them...not until you have applied a layer or two of thick paint. Chalk paint is ideal for this because it behaves a little bit like wood filler. Once the paint is dry sand it back and apply another layer. Keep doing this until you are happy with the finish.

The easiest way to paint the doors is by spraying. However if you use a brush to apply the paint be careful not to build up thick blobs of paint in the corners.

Please check that you can fit 60cm/70cm through your door. If you build the Folly you may one day want to move it out of the room it is in so check the base will fit through the doorway.

We do not supply super glue but I find that Deluxe make a nice gel Cyano super glue. I also rather like Haffix super glue and I nearly always use a spray accelerator to speed up the process.

You will be using a large tube of FIXALL - this is incredible glue and once used you will want to use it for lots of other projects. In order to prolong the life of the glue please cover the end of the funnel with a cap to stop the glue in the funnel from setting. If it does then simply cut the funnel at a lower point until glue starts to flow.

The main building can be assembled in a matter of an hour or two (excluding and overnight wait for the glue to set). Doors take a little longer. But please take your time - you may want to decorate as you build. In fact the images shown on the last few pages of this booklet show a Folly that has a dry fit first floor and roof.

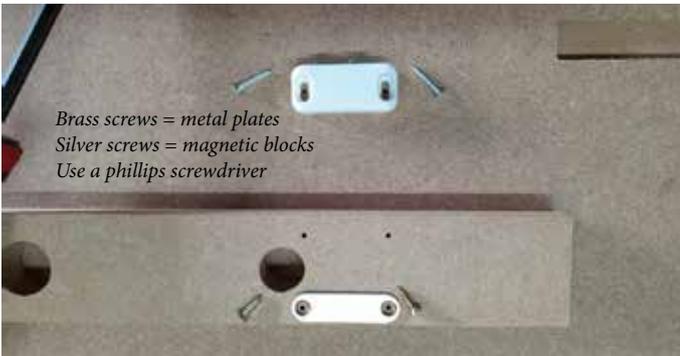
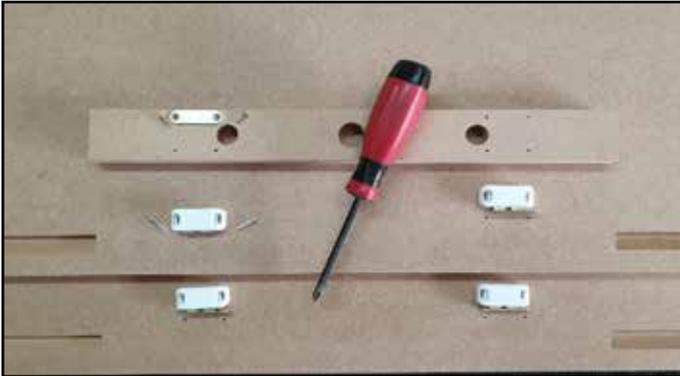
Most of all enjoy your Folly. It is a joy to paint and of course your imagination can run away with you when it comes to a theme.....

*Ali*  
x

# THE BASE

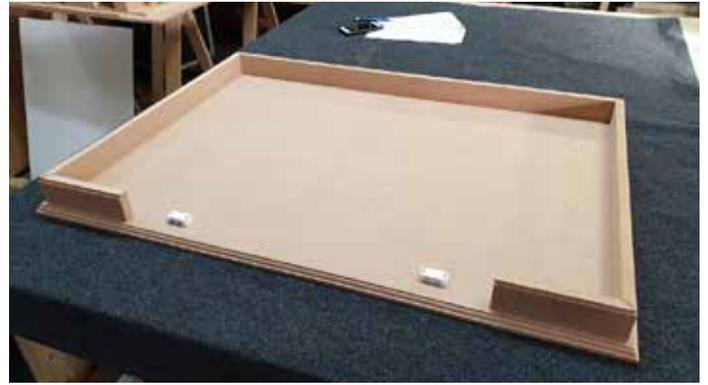
The base is made from MDF and is simple and quick to assemble. We sell two sizes of base 60cm x 70cm & 70cm x 100cm and these instructions apply to both sizes.

**1.** Attach using screws supplied the white magnetic blocks and the metal plates to the top and the bottom of the main large mdf boards at the opening. Make sure they are all aligned with each other



*Location holes have been made for the screws.*

**2.** Dry fit the box (without glue) and make sure you have aligned all your plates and brackets correctly.



Locating the top to the walls can be a little fiddly but if you move the top around a little it will fall into place.

**4.** The catches should locate on the top and bottom board as seen below.



**5.** Take apart the base and then apply wood glue to the routed channels in the base of the Folly stand then push the sides into the channels making sure that the corners are aligned to each other. Complete building the box.



You are now ready to clip the front opening to the side of the box.

## Positioning the Folly

1. The minimum distance that the “Base Jig” should be from the outer edges of the base is 6cm. If you have less than this the Folly steps will hang over the edge of the board.



*The jig will help you position your walls so they create a rectangle. We would not recommend building the Folly without using the Jig. If you choose not to use the base you will still need to screw the jig to a flat surface. The jig also raises the floor to the correct level.*

2. For the purposes of these instructions we shall be using the larger 100cm x 70cm base. You may want to consider how you will be decorating your outside area. Do you want gardens at either end or maybe all to one side.



3. For a 60cm x 70cm base, I think that to position your Folly base jig centrally or slightly off centre works well. At this stage you can dry fit the resin Folly walls to check the location. Once satisfied with the position screw the base jig onto the base. Screws are not supplied.



## Building the Ground Floor

1. You will have 2 wide and 2 narrow walls and 4 corners. The next stage is to position and glue them into place.



2. Place the first corner into position



**3.** Continue to add more walls around the base jig. Ensure that the opening of the house is located on the same side as the magnetic catch opening unless you want to have the opening at the front.





*Keep the metal bracket mechanism in line with the door opening.*

**2.** When all sides are in position place a strap around the top and the bottom of the Folly. Jiggle and shift the walls and tighten the straps as you go to ensure all the gaps are reduced to a minimum. It is important to know that there will be gaps - these can be filled after you have assembled the Folly. Also the ground floor walls will need to align with the roof section. I shall come onto that point in a moment.



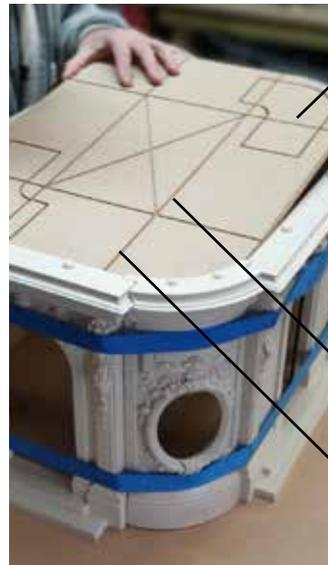


*If you want to reposition the walls slightly now is the time to do so. Simply loosen the straps slightly and “hug the Folly into position and tighten straps whilst constantly checking for gaps.*



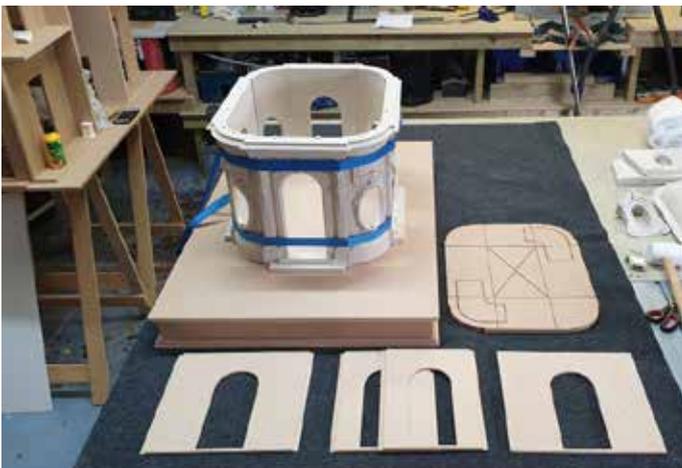
**2.** Dry fit the internal walls and remember to place the unrouted section at the back where your opening will be.

**3.** Now place the routed floor section onto the top of the walls. Ensuring that it fits in nice and evenly. At this stage you may want to loosen the straps a little and jiggle the walls until the floor fits. This first floor is important whether you are having just one huge open plan Folly or one with two floors. The floor will be removed but for now it acts as a jig to align all the walls into position.



*If you are going to keep a first floor then you may want to cut out one of the staircase openings. We have created two of them but you probably only need to remove one of them. Simply cut through the wood with a sharp Stanley knife or craft blade. If you wish to have a balcony (if you are creating the library interior or similar) then you will need to use a jigsaw and remove the area with the cross. Although it had been routed it is not as deep as the stair section. If you do not have a jigsaw then repeated cutting with a craft knife will remove the rectangular section.*

Groove for electric cable



*At this stage I recommend dry fitting the first floor walls and the roof. The walls will stand up at an angle without falling forward but when dry fitting be gentle! When the walls are in position add the domed roof - everything should align - if it doesn't then you need to jiggle the base walls and roof walls until they do.*

*See section “building the first floor” to see how the walls fit together.*



# INTERNAL WIRING

**Notes:** Your wiring is going to be dependant on the positioning of your lighting and also your design. If you are thinking of buying the internal kit then I would recommend adding wires either side of the wide wall so that you can have lights on the inside and outside and also allow enough wiring to reach the top of the dome. If you are having a first floor you should also consider the cables for this floor. Because this part of the Folly will very much be dependant on your design and ideas I have provided instructions on how to position a wire.

**1:** Remove the first floor layer (the folly walls might move slightly but this is OK) and also the internal mdf walls)



*You will need a drill and drill bit large enough to drill a hole for your cables.*

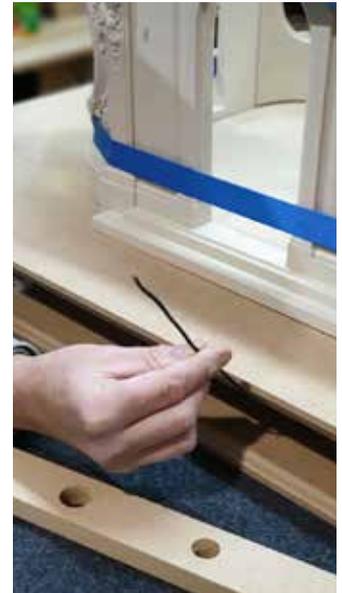
**2:** Drill a hole at the side of the internal wall into the base. You may need to drill holes in different positions depending on where you are positioning your lighting.



**3:** Take a nice long length of cable and hang it over the front or side of the Folly and down the inside. Gently secure the Cable that is hanging over the front by feeding it under the straps - this will help to keep it in place and stop it from moving



**4:** Feed the internal wire through the hole that you drilled and pull it out through the bottom. You may want to label this wire e.g. Chandelier or outside wall light etc.



# GROUND FLOOR - WALLS

**Notes:** There are two steps to the walls on the Ground floor. 1. Secure them with glue and 2. add the internal mdf flat sections. I would like to make a small comment at this stage. I recommend completing stage 1, but the flat MDF sections can wait until you are ready to decorate. You can still dry build the mdf walls so that you can add floors and a roof section (all dry fitted).

*You will need mdf internal walls, gun and Fixall.*

*At this stage I recommend dry fitting the first floor walls and the roof. The walls will stand up at an angle without falling forward but when dry fitting be gentle!*

*When the walls are in position add the domed roof - everything should align - if it doesn't then you need to jiggle the base walls and roof walls until they do. This is the most critical and hardest part of the build. Be patient and keep jiggling and realigning until everything lines up nicely.*

*See section "building the first floor" to see how the walls fit*



Slice off the domed end of the glue tube but do not slice off the threads otherwise you will not be able to screw on the nozzle. Now screw on the nozzle and slice off the end - the further down the nozzle you slice the bigger the hole. You don't need a large hole so slice near the end of the nozzle.



*Threaded area*

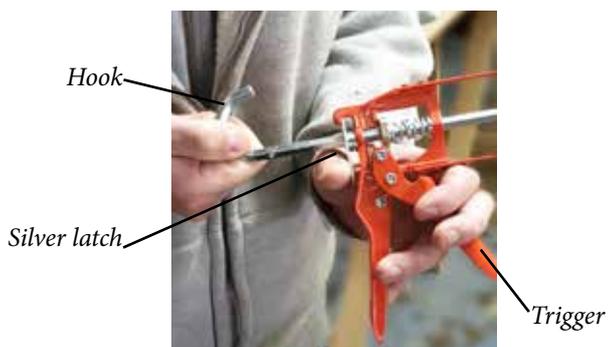
*Nozzle*



Place the tube into the gun and pull trigger until you notice glue coming out of the nozzle. To stop the flow of glue press down on the silver latch and pull the hook slightly towards you.



**Preparing your gun:** Push the silver latch towards the trigger and pull the hook away from the trigger.



If you have never used one of these guns before I suggest you practice before diving into gluing the Folly!

Pull the hook away from the trigger whilst holding down the latch until it won't pull any further.



## Step 1. Securing the walls with glue:

Glue each join (except the wall that will be your access wall!! If you glue this you wont be able to get into the Folly interior. Keep the flow of glue steady and don't apply it too thickly or your mdf walls will project into the room.

If you apply too much simply wet finger and smooth off or use a damp sponge. You can always add more glue later but it is very difficult to remove when set.

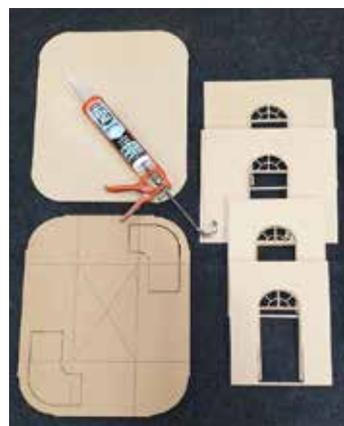


## Step 2. Adding the interior MDF walls:

This is completely optional at this stage and will depend on your design and your decoration. Before you add the walls your wiring should be in place. I prefer to add the walls after I have glued the downstairs resin walls but decorated the outside of the Folly and dry fitting the first floor and roof. It means I can be far more flexible with my choices and also there is no fear of going wrong. However at some stage you will need to add them so the instructions are here for you:

### Step 1. Before you glue your walls into position you will need to have assembled and painted your doors. Instructions on how to assemble the doors are explained later.

We have demonstrated this stage without the doors fitted. Just the frames are being used.



*Please ensure door are fitted before assembling this section. For this stage you will require the internal walls (the one without a rebate is the wall you remove for access), glue gun and glue, ground floor and first floor. If you are not planning on having a first floor you no longer need this part.*



*Doors should be flush to the internal wall*

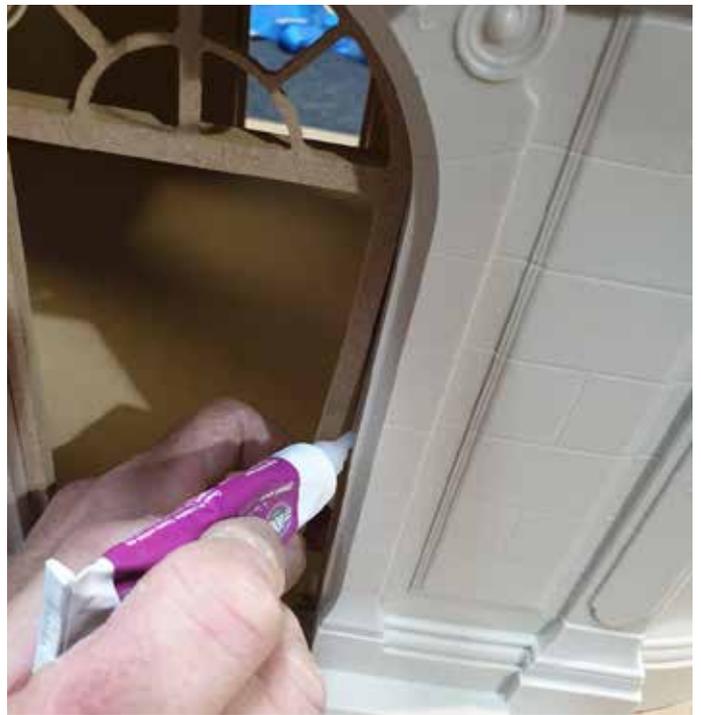
**Step 2.** Liberally apply glue to your wall - it will not fit flat to the inside of the Folly - there will be a cavity so please allow enough glue to grip



**Step 4.** Make sure your door frames are aligned flush with the inside and then glue them into position using super glue.



**Step 3.** Push wall against Folly wall - make sure your cables are in the correct position



## Windows

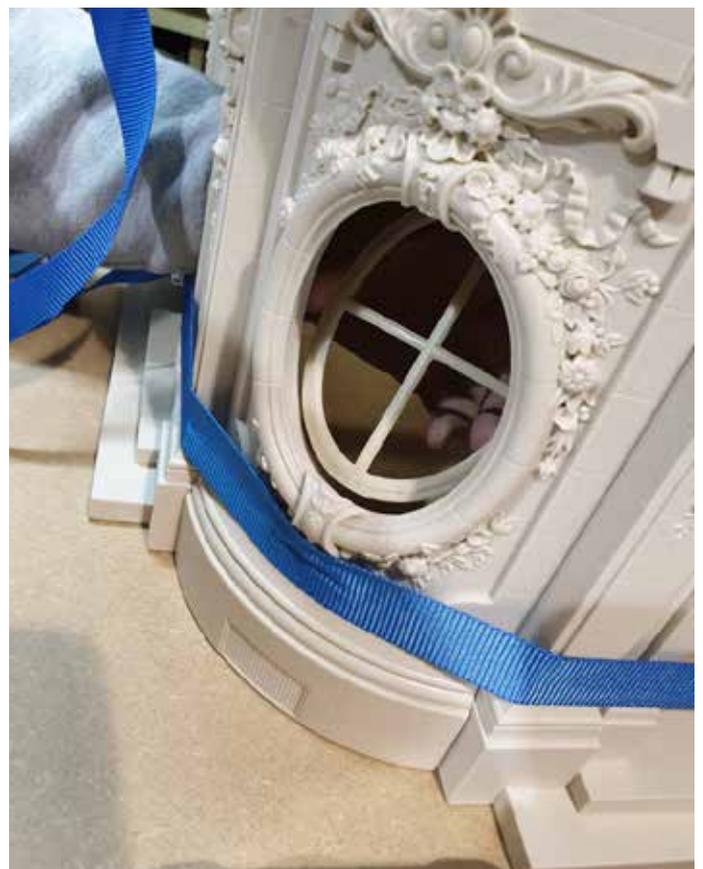
**Technique applies to both sets of windows on the ground floor and upper floor.**

Before assembling windows check they fit inside the window recesses. The resin is notorious for shrinkage and some windows will be tight. If they are simply sand the frame until it fits the recess.

Draw around the window and cut out clear acrylic. Using su-

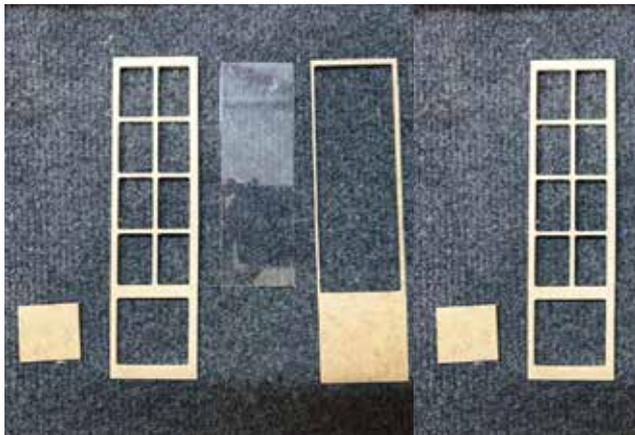


Glue the inside frame into position and when set glue into recess of the Folly windows



**Doors.** I think these are the hardest items to make so take your time and check each stage.

Before assembling paint your doors and frames. However where the hinges locate leave this area free of paint. If you paint these areas you might find that the hinges will stick to the paint but not the mdf and just come away. You can of course sand off the paint.



Each door frame will consist of 5 sections. Please note that one side of the frame is slightly wider than the other side. The side that is wider is the hinge side. Please be careful not to mix them up.

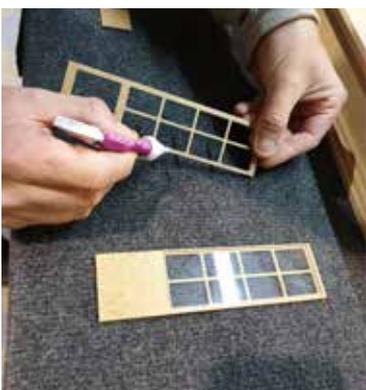
Below are pictures of the stage of assembly:



Glue the internal frame to the external frame using superglue.



Insert the window into the cavity recess.



Glue the other internal frame to the external frame using superglue.

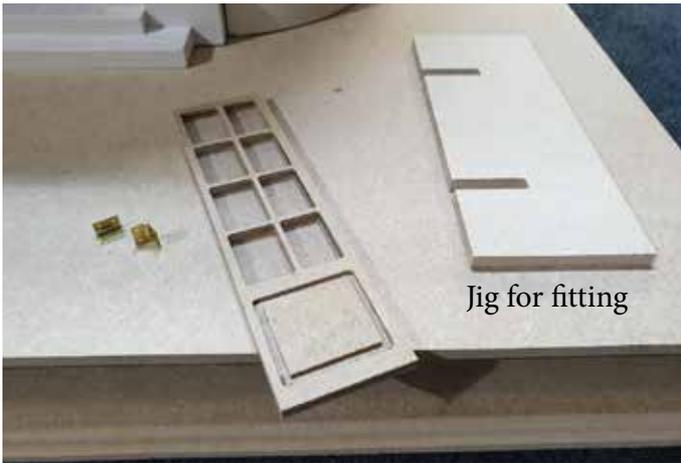


Glue the small rectangle into position using superglue. Locate the rectangle so it is central



# Hinges

Each door will require 2 hinges. The strange shaped mdf section is a jig for fitting the hinges.



Position the door into the jig as shown in the picture below. Apply glue to the hinge. I like to use a spray accelerator designed to speed up the setting of the glue.

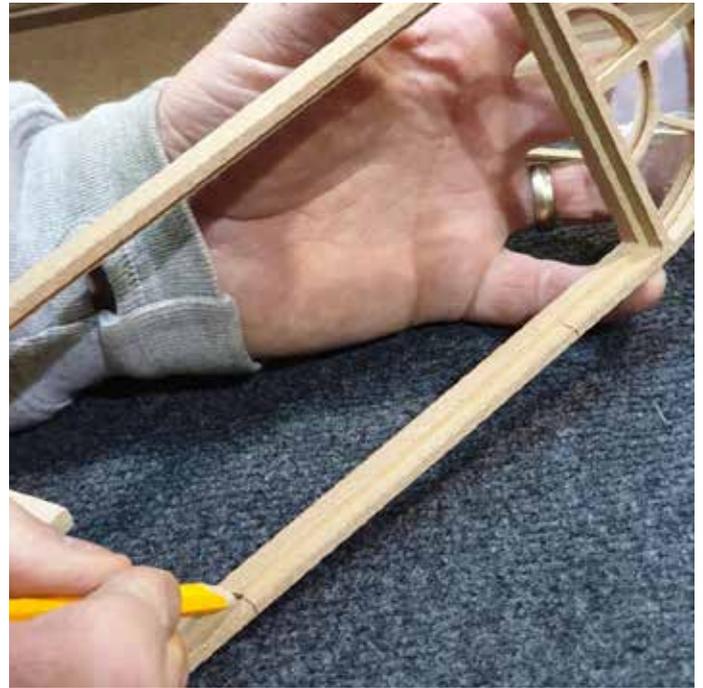
Repeat the procedure for the second hinge and then do the same for the second door.



Hold the hinge in position until glue is set



Place frame into jig as shown. This will support your door when glueing hinges to the frame.



Place door into the frame

Lay frame on its side next to the jig. The jig will act as a support.

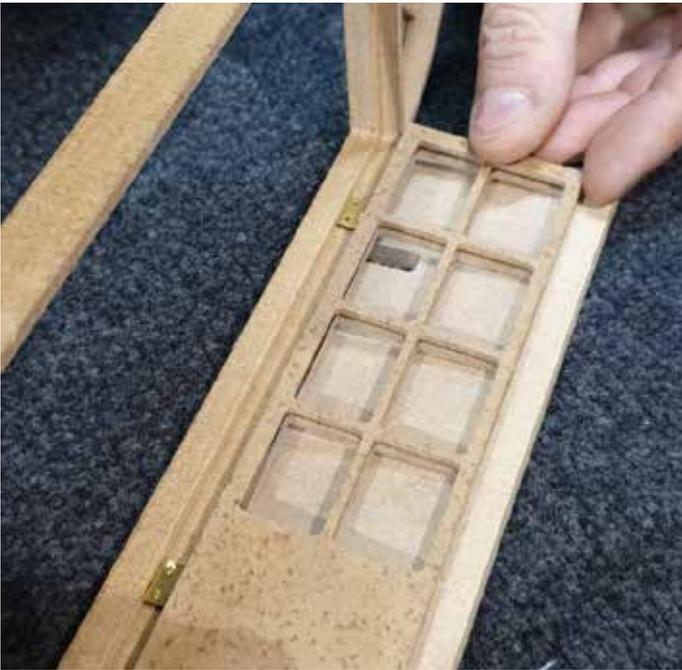


Using a pencil mark position of hinges on the frame.

Apply superglue to the hinge as shown.



Position the door into the frame



Hold down the hinges whilst the glue is setting. Ideal time to use super glue spray accelerator



Check door opens and closes and then repeat process for the other door.



For the purposes of photography we have only fitted one door.. The next stage is to complete the frame. After fitting both doors add the long thin mdf strip (not shown) to one of them so that it covers any gap between the doors.



Glue the thin frame onto each door frame



Hold down whilst glue sets



Some acrylic comes with a protective coating - peel this off before fitting the glass.

Repeat this process for the other door.



Apply a few drops of glue to the inside of the mdf frame and drop glass into the recess.



Apply a few drops of glue to the rear side of the mdf insert and drop into the recess.



Congratulations you have fitted a pair of doors! You can add handles and cremones etc.

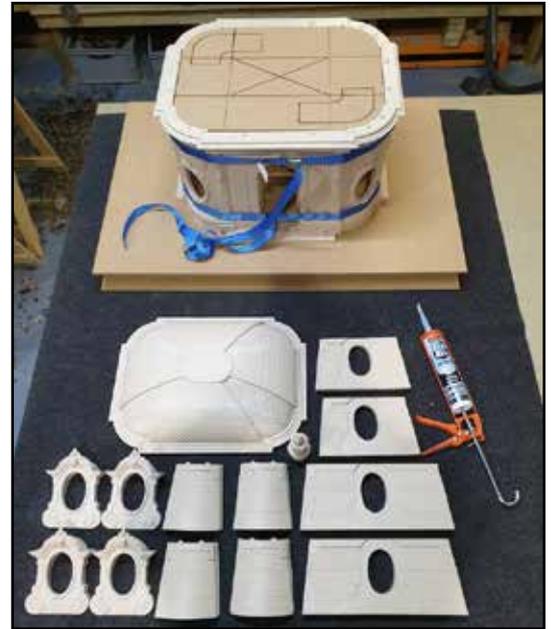
# FIRST FLOOR AND ROOF

If you have completed most of the ground floor you can, at this stage, dry fit the walls and roof in order to understand it and begin to paint the Folly exterior keeping in mind that there may be just the odd joint to fill. For this instruction manual we have explained it as if you were ready to permanently build. Please keep in mind, throughout this process the need for wiring and decorating. You may want to decorate the walls before gluing them into position. Please also be mindful that one side of the Folly will be removed for access so don't glue this side into place. The section that will be the access section has had some bobbles removed from the top edge.

We have retained the straps on our building but these can be removed after the ground floor has been glued. Because we have dry fitted this example we have retained the straps.

It is easier to decorate the ground floor floor before starting on the first floor and roof.

A first floor is not essential to the build so if you prefer a one room high ceiling Folly do not add the first floor. And if you choose to have a balcony then you will need to cut away the sections that you don't want and before fitting the floor. If you add the first floor and require the spiral staircase please remove one of the stair case holes using a sharp craft knife.



1. Insert the ground floor floor.  
Decorate this before you insert it.



4. Dry fit corner



7. Dry fit the sides



2. Insert the first floor floor. If you are not having a first floor then



5. Dry fit the side



8. Dry fit the access side.  
The long side without any nobbles



3. Lay electric cables into grooves



6. Dry fit the corners



9. The walls are self supporting



11. Bring electric cables up wall



12. Dry fit roof



13. Remove walls and roof and glue them back into place



14. Glue top of wall ready for roof



15. Glue top of wall ready for roof



16. Fit roof. Use a mallet if the roof needs a little help



17. Fill any gaps



18. Apply glue to rear of windows and glue into position.



19. The glue will support the windows until the glue has set



20. Almost finished



21. Apply glue to Flame base



22. Place flame into position.













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