

See page 12 for more product photographs



**E1614**  
uses 5042 windows and 5025 Shutters.



**E1621**  
uses 5037 Window and 5025 Shutters.



**E1630**  
uses 1011 Door

**Measure and identify the parts:** Label them with sticky notes using the names from the parts list, and check them off the parts list so you know you have everything. *Taking the time now to identify and organize the parts also makes them familiar so you will understand what the instructions intend as you read ahead.*

- Plan ahead so you know where you are going
- Read ahead so you know how to get there
- Paint ahead so parts will be ready when you need them

### E1600 Series Extension Parts:

(dimensions are approximate and are for identification purposes only)

1	Front	(3/8clapboard)	10 1/2	12 3/16,	grooves, Bev45
	E16-01	#1 (2-Std windows)	in E1610 series Extensions		
	E16-02	#2 (Double window)	in E1620 series Extensions		
	E16-03	#3A (1011 door)	in E1630 Extension		
1	E16-04 Side	(3/8clapboard)	17 1/2	14,	grooves, Peaked
Pr	E16-05/6 L&R Peak Sidewall	(3/8clapboard)	6 3/4	Triangle	
1	E16-07 Upper Floor	3/8	14 1/8	11 15/16	E-Slot
1	E16-08 Base Floor	1/4	14 1/8	11 15/16	E-Slot
1	E16-09 Front Roof	1/4	13 9/16	11 7/16	
1	E16-10 Rear Eave	1/4	11 3/16	13 3/4	
1	E16-11 Rear Roof	1/4	13 1/16	7 1/16	Bev45 blunt
2	E16-12 Foundation, Front/Back	1/2	12 3/16	11 1/4	Grooves
2	E16-13 Foundation, Side	1/2	13 3/8	11 1/4	
2	E16-14 Foundation Lift	1/2	12 3/16	1/2	Grooves
2	E16-15 Foundation Lift	1/2	13 3/8	1/2	
1	E16-25 Door Pad	1/8	3 1/2	3/4	
1	E16-16 Liner, 1st	1/8	14	9	
1	E16-17 Liner, 2nd	1/8	14	8 1/16	Peaked
1	E16-18 Stripwood, Back	(3/32 x 7/16)	10 15/16	45*	
1	E16-19 Stripwood, Front	(3/32 x 7/16)	10 9/16	45*	
1	E16-20 Stripwood, House	(3/32 x 7/16)	10 1/8	45*	
1	E16-21 Stripwood, Top	(3/32 x 7/16)	6 5/8	45*	
1	E3638-275 Shingles	(1/32 x 3/4)	11 1/4		

Windows, Shutters, or Door are optional and may be packed separately

Not suitable for children under 13 years of age  
California 93120 compliant for formaldehyde phase 2

**Review the techniques** on the first few pages of your dollhouse instructions (a copy of which can be found at [www.realgoodtoys.com](http://www.realgoodtoys.com) - scroll down to "assembly instructions" at the bottom of the Home Page).

Pay particular attention to these sections:

- Dye shingles
- Glue selection
- Taking things apart
- Getting the best from your masking tape
- Painting (Sanding!)

a flat work surface is essential

Supplies you will need:

- Paint: Interior semi-gloss latex paint... Everything gets at least one coat before assembly - get the paint now.
- Paintbrushes 1" or 2" foam brushes for painting
- Sandpaper: 320 grit, several sheets
- Glue: Aleene's Tacky Glue for the assembly
- Solvent-Based panel cement for shingles
- Masking tape: 3/4" or 1"

## Overview of the Build:

Details of each step will be expanded along the way, but lots of builders like to see how it all fits together before they start.

- Identify and label all of the parts
- Pre-assemble the Foundation
- Dye Shingles; draw guidelines on the Front Roof and Eave
- Paint everything one coat
- Option: Faux-wood floor finish on the floor
- Sand everything until the paint is smooth, transparent, and some of the wood is showing through
- Decide on the order of painting/assembly\*
- Build the extension body walls and floors
- \*Second-coat as decided
- Wiring? Run some of the wiring now see [www.realgoodtoys.help](http://www.realgoodtoys.help)
- Attach the Foundation
- Attach the Roofs
- Wiring? Finish the wiring now
- Shingle

Builder support: [www.realgoodtoys.help](http://www.realgoodtoys.help)



Each sold separately

E1611 Extension

E1640 Conservatory

JM1601 house with P1600 Porch

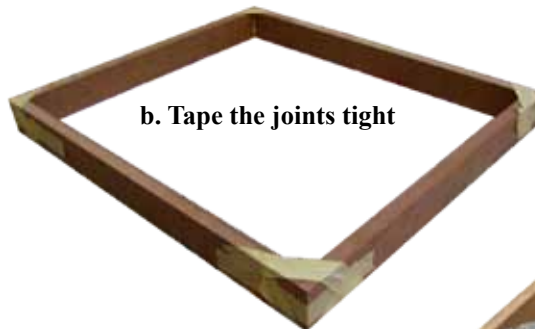
**1. Pre-Assembly**

Glue and tape together the Foundation set.

“Foundation Lift” parts extend the Foundation height to accommodate houses with 1<sup>3</sup>/<sub>4</sub>” tall Foundations (not needed with 1600 series houses). Use these parts to customize your Extension Foundation if that is how it will be used. (see page 12)

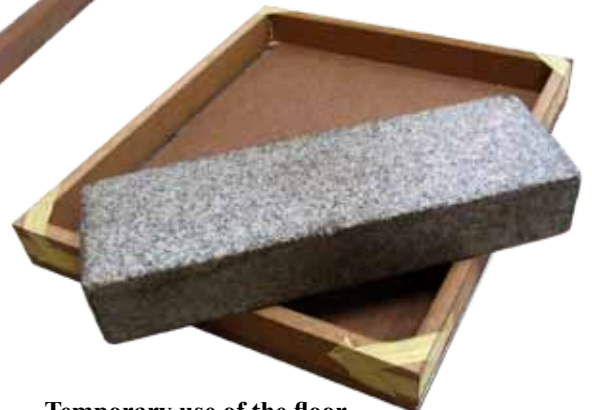


a. Put glue in the grooves



b. Tape the joints tight

c. Square and flat as the glue dries.



Temporary use of the floor

Without glue, put the Foundation set on a Floor, lined up on 3 edges, to confirm the foundation is square as the glue dries. Tape or weight... let the glue dry.

Draw shingle guidelines on the Front Roof and Rear Eave (see page 11).

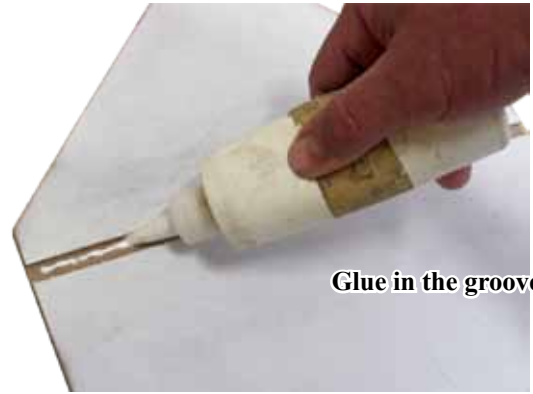
Now is a great time for all the first-coat painting.

### Assemble the Extension Body

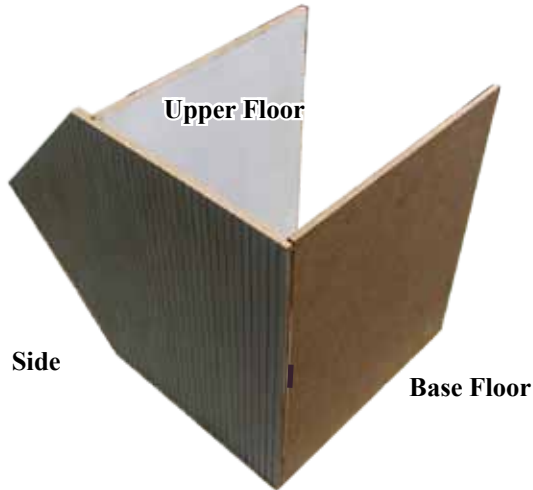
Continue to step 11 without stopping.

1. Determine whether this will be a left or a right Extension (reference to “left” or “right” are as viewed from the front of the house). Photos in this instruction set are for a Left Extension, but it can be reversed and built on either side.

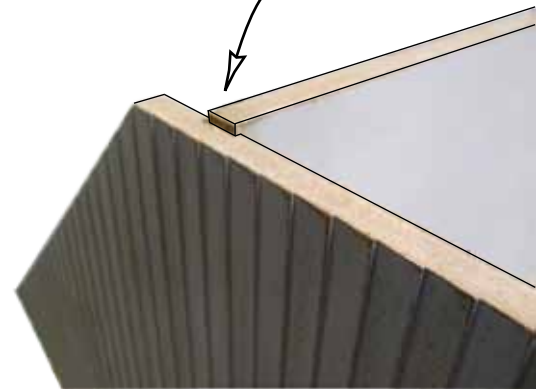
2. Spread glue in the grooves of the Sidewall. Stand the Sidewall on its back edge on a flat worksurface.



Glue in the grooves

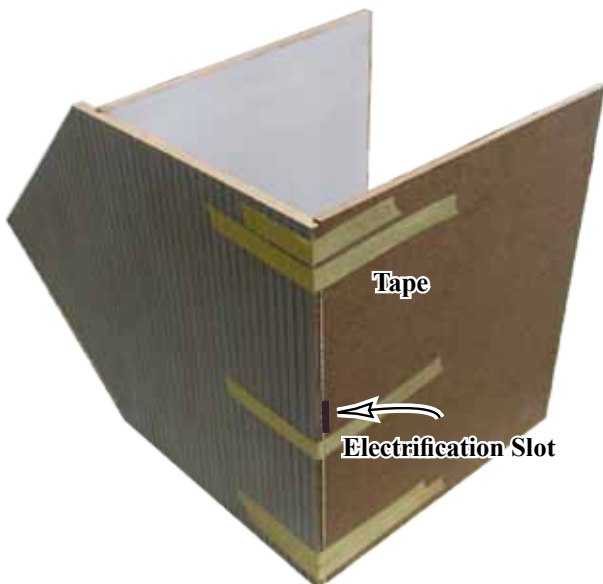


the Floors stick up 1/8" above the edge of the Side



3. Stand the Upper Floor and Base Floor with the Side, with the longer dimension (14 1/8") up-and-down. Press the Floors into the grooves. The Floors stick up 1/8" above the edge of the Side (this 1/8" will fit into the grooves of the Front).

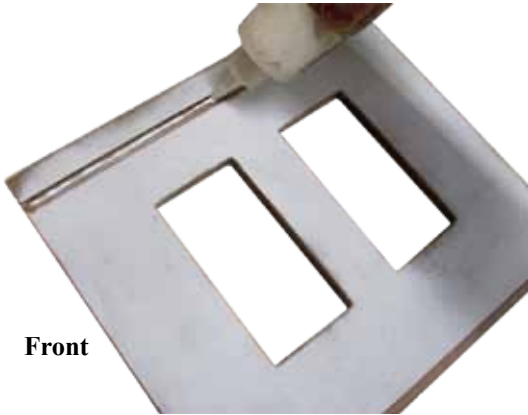
4. Firmly tape the Base Floor to the Side. Press the Base Floor to fit to the top of the groove.



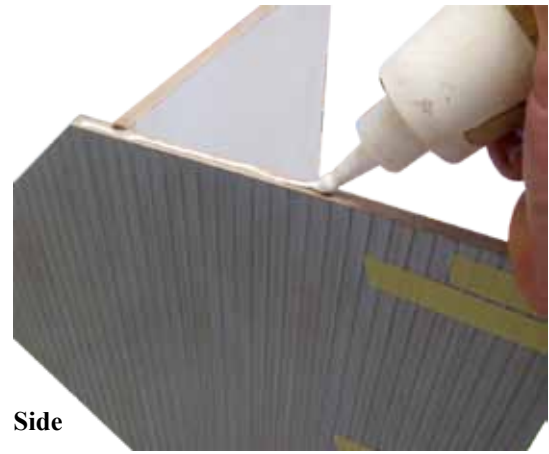
**Wiring?** I run a piece of tapewire into the foundation space before attaching the Foundation. In the upper rooms this becomes the “Main Loop”, and in the cellar I can make the connection to the house wiring even if I have already finished the inside of the house (otherwise I go thru a door cutout). For this reason, I prefer putting the Electrification Slot edge of the Floors into the groove, so the tapewire will be better protected from the wear and tear of the rest of the construction process.



5. Spread glue in the grooves of the Front. Spread glue on the edge of the Side.

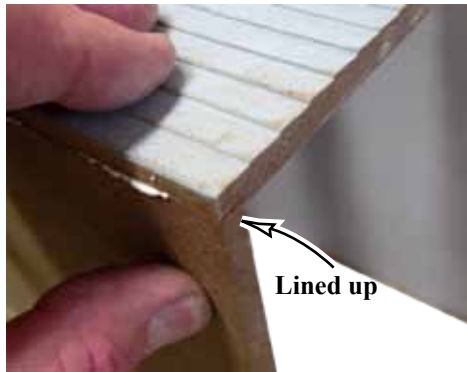


Front

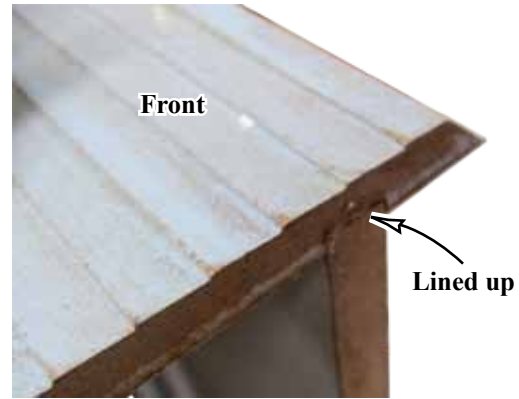


Side

6. Set the Front onto the Extension Body with the Floors in the grooves. Line up the free ends of the floors with the edge of the Front. Press the Base Floor to the top of the groove.



Lined up



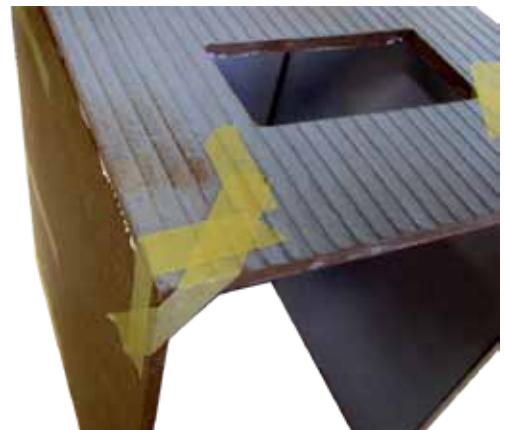
Front

Lined up

End of the Floor

**Press to the top of the groove**

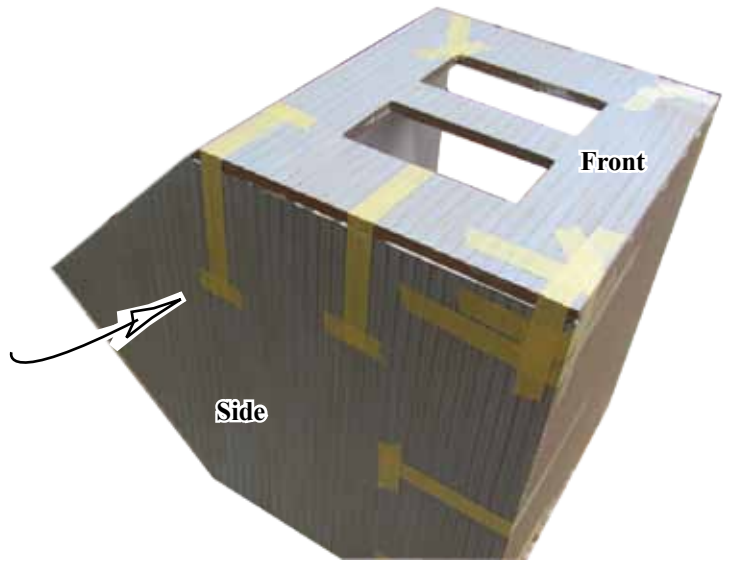
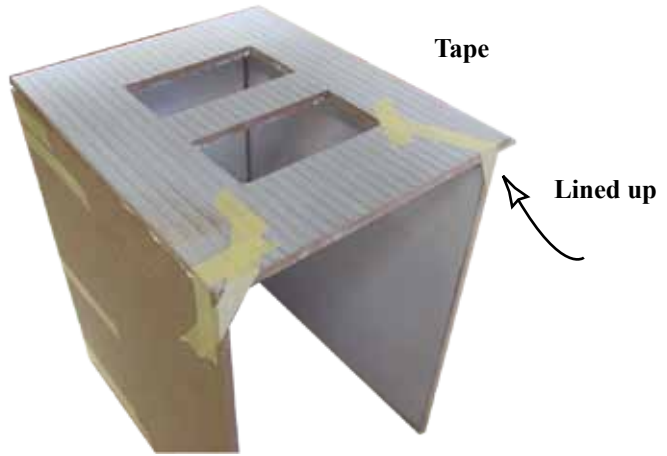
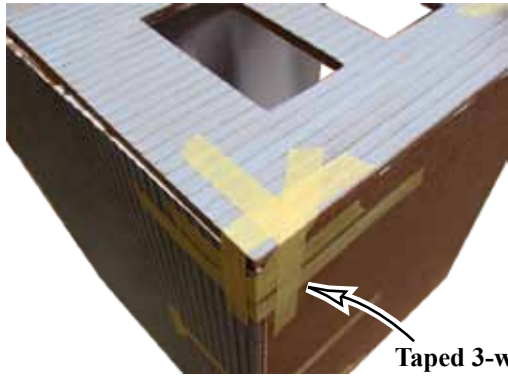
7. Tape the Base Floor to the Front. Tape around the end *and* down the Front (two directions!) so the tapes will reinforce each other and the Base will be held to the top of the groove.



**Tape is strong and stiff when it goes in two directions around a corner.**

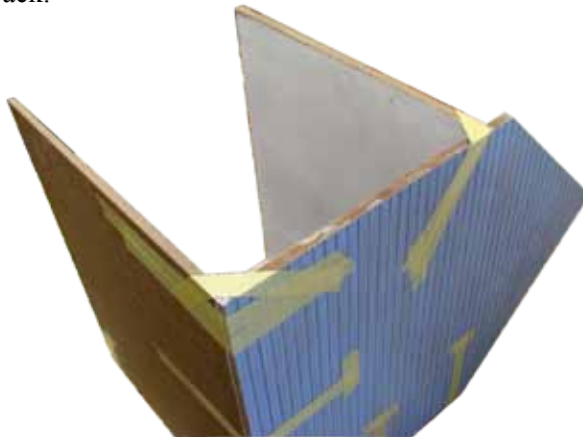
8. Tape the Front to the Upper Floor, lined up on the end.

9. Tape the Front across the Base; check to be sure the Base floor is at the top of the groove. Tape the Front to the Side.

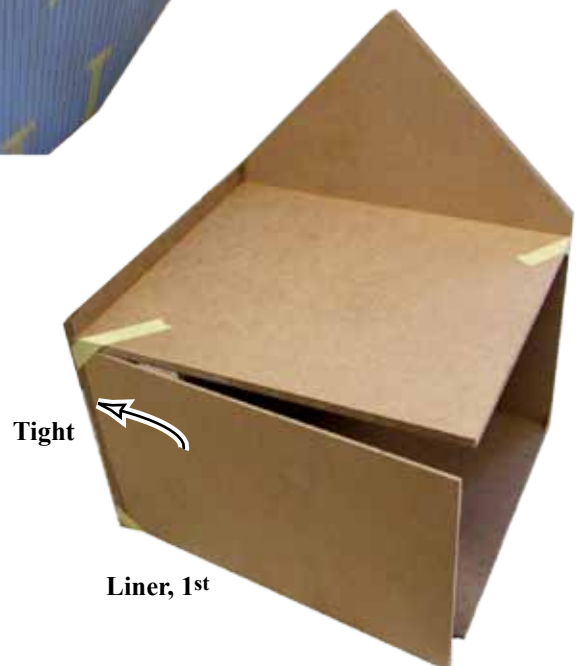


**Builder's note:** The roll of tape I used in building this model wasn't as sticky as I like and, when I gave it a good stretch, peeled up on the ends. I put a cross-piece of tape at each end and the problem was solved.

10. Tape the Floors to the Side in back.

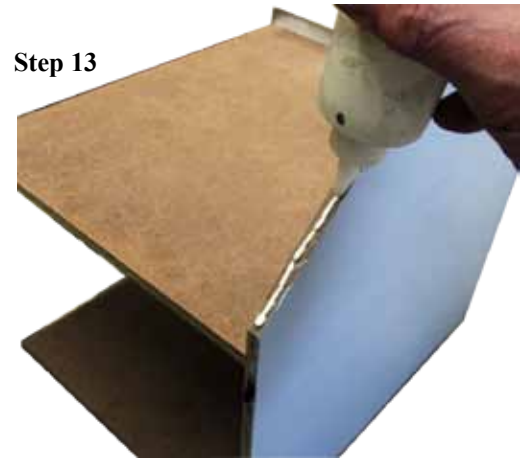
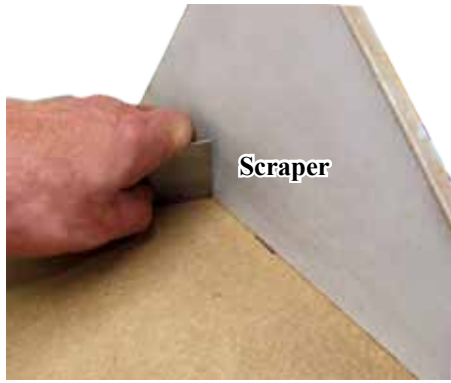


11. Temporarily, set the Liner, 1st between the Floors, pushed all the way to the front to hold the front straight while the glue dries.

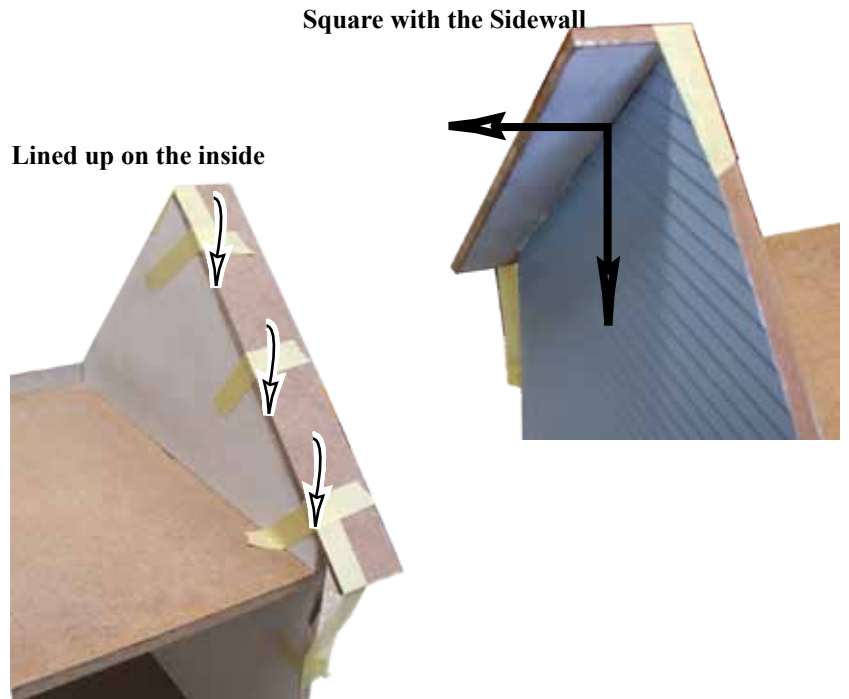
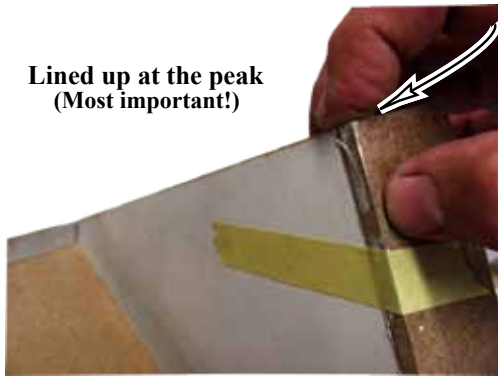


Let the glue dry

- 12. Clean up glue excess and squeezings.



- 13. Glue and tape the Rear Eave to the Side, lined up on the inside and at the peak.



Let the glue dry

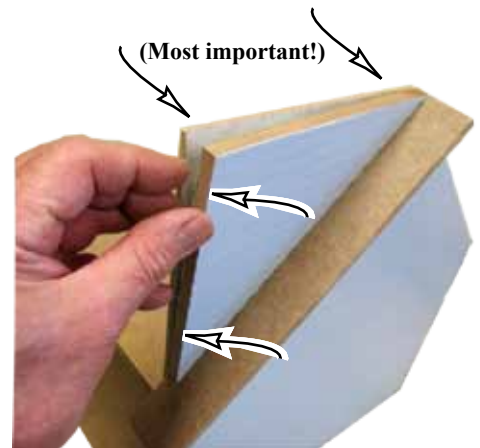
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- 14 A. Without glue, set the Liner, 2<sup>nd</sup> against the Side, with the square edge in back and lined up in front.

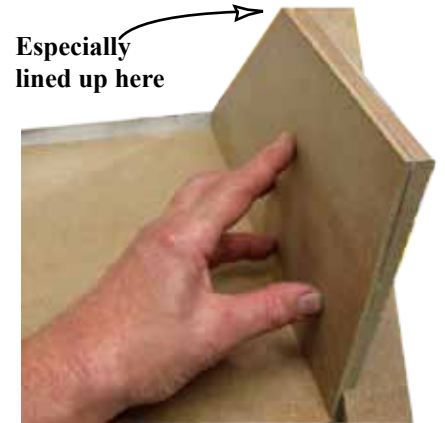
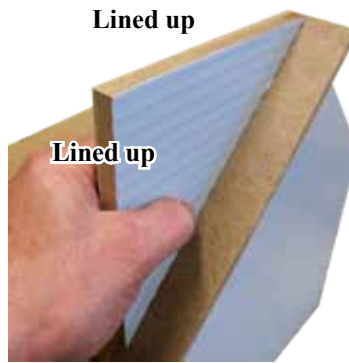
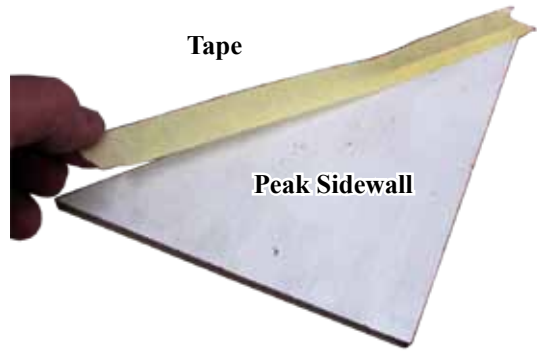


- 14 B. Select the correct Peak Sidewall (the clapboard runs the same direction as the Side). Test it against the Liner... they should line up with each other all the way around.

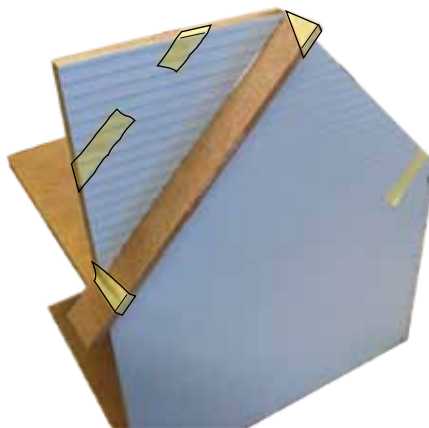
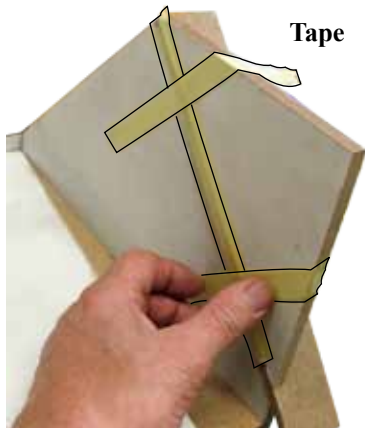
The un-used Peak Sidewall is a handy square for helping to straighten parts during assembly... save it.



14 C. Prepare tape and glue on the Peak Sidewall. Glue the Peak Sidewall to the Rear Eave exactly matching the edges of the Liner, 2<sup>nd</sup>.

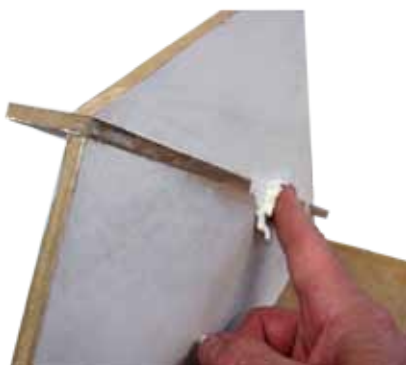


14 D. Tape the Peak Sidewall to the Rear Eave and Liner, 2<sup>nd</sup> to hold the Peak Sidewall straight and in position.



Let the glue dry

15. Fill, scrape, and smooth the interior surface.



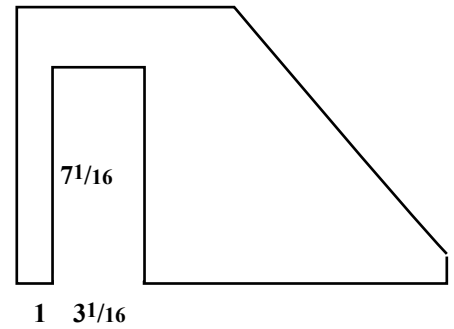
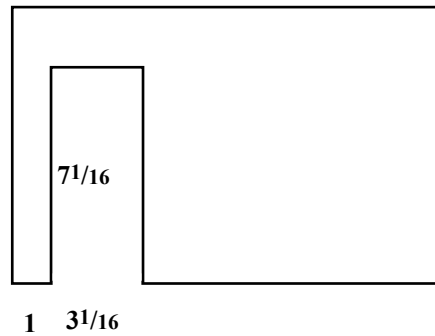


As you build this extension it is a good idea to test it up against the house after every step, and some steps are easiest of all if you do the building right up against the house (like step 19 ☺). I am building this extension as a stand-alone model in order to show the exact placement of every part.

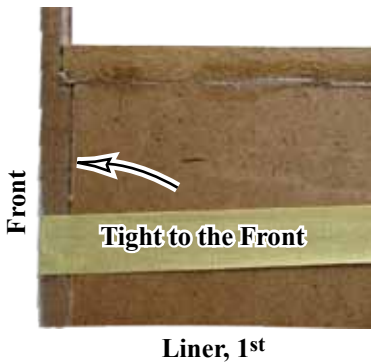
- 16. Optional: Lay out and cut doorways in the Liners. You will install the liners with their cutouts as you build the Extension and, when you are ready to attach the Extension to the house, will trace and cut the doorways to the house.

**Suggested Layout**

This opening fits the 1015 interior door: see [www.realgoodtoys.com](http://www.realgoodtoys.com)



- 16. Glue and tape the Liner, 1<sup>st</sup> between the Floors, tight to the Front, and lined up with the Floors on the ends.

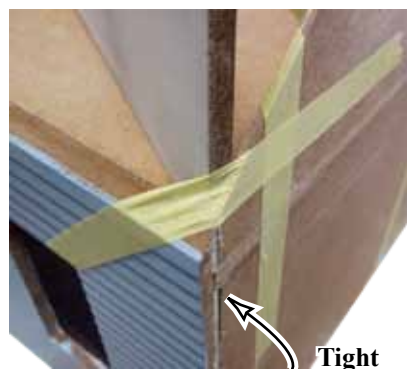
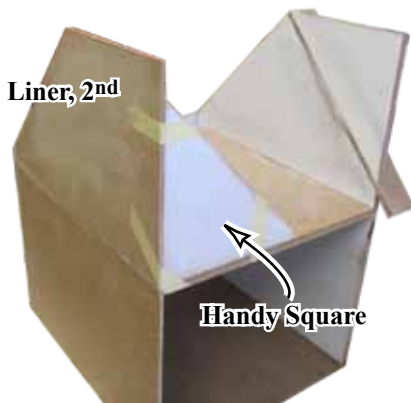


Lined up at the ends.

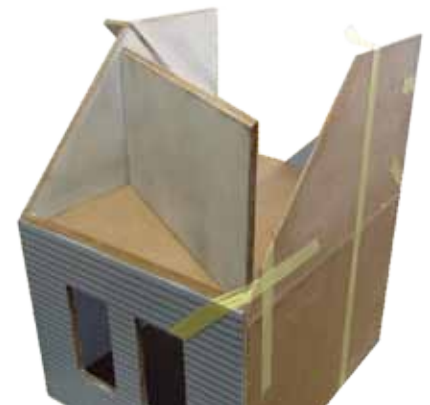
Liner, 1<sup>st</sup>

Let the glue dry

- 17. Glue and tape the Liner, 2<sup>nd</sup> to the Upper Floor, tight to the Front, lined up with the Floor on the end, and straight up-and-down (the un-used Peak Sidewall (“Handy Square”) helps).



Let the glue dry

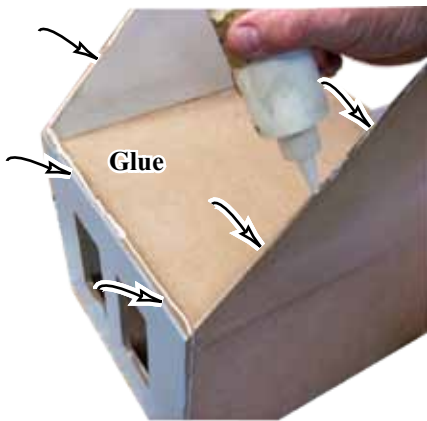


The Rear Roof is giving pressure to hold the Liner, 2<sup>nd</sup> straight while the glue dries.

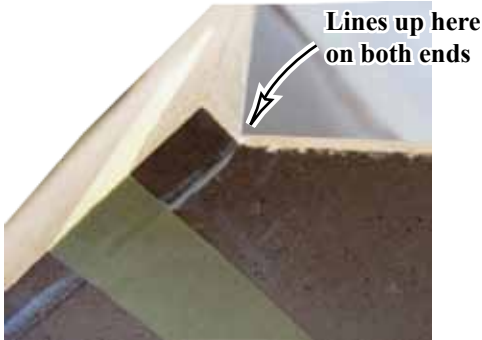
Once the glue is dry and the tape is off, it is the perfect time to second-coat all the exterior painting.



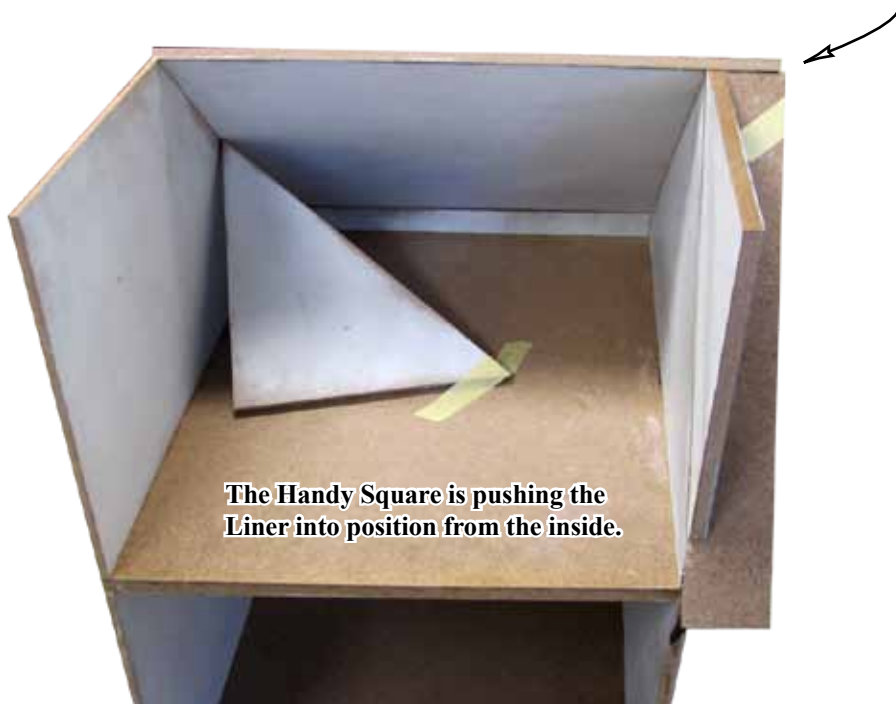
18. Spread glue on the Front, the Side, and the Liner, 2nd; and prepare flaps of tape for the Front Roof. You may have to dress the glue on the Liner with your finger for a well-centered and even line of glue.



19. Tape the Front Roof to the Front, the Liner, 2nd, and to the Side. The Front Roof is tight to the house, lined up perfectly with the peaks and on the outside with the Rear Eave.

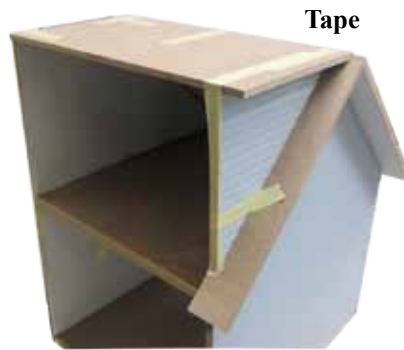
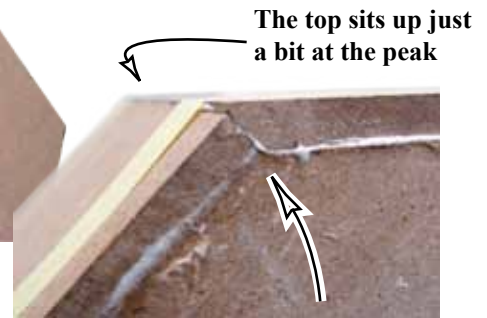
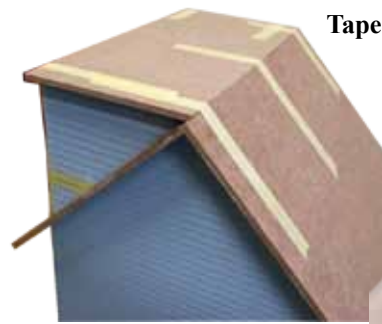
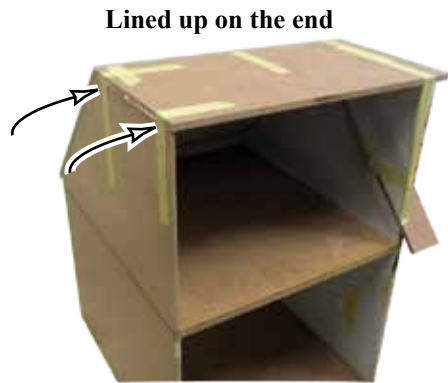


**Note:** this Sidewall tips out and the Rear Eave isn't lined up on the outside. This took a lot of tape to hold the Liner and Front Roof against the house, and then to pull the Rear Eave into position, but if that's what is needed, do it now. Once the glue dries the position will be permanent.



I used the Foundation to make the fit perfect for the house, and had to pull it hard with several stretched bands of tape. Pulling it tight to the house is better still (but uses lots more tape to go all the way around the house).

20. Glue and tape the Rear Roof to the Front Roof, Peak Sidewall, and Liner.



**Lined up on the under-side**



**Attaching the Extension to the House is optional. This is where a "FLAT" table is critical.**

 **Don't expect your table to be flat - check it by pulling a string tight from one side to the other.**

**Wiring? Run your "Main Loop" now. [www.realgoodtoys.help](http://www.realgoodtoys.help)**

21. Attach the Foundation to the House Foundation lined up in back.

22. Attach the Extension to the Foundation and House.

A. Set the Extension against the house lined up in back. Lightly trace the perimeter onto the House Side. Remove the Extension and scrape away a little paint in the area hidden by the Extension for the glue to grab. I primarily try to get a bit along the Roof Top, and along each floor, but some scraping around the doors (if you cut doors into the Extension) will make the glue joint there stronger too. Stay 1/16" or more away from the tracing so the scraping will remain hidden.

B. Glue and tape the Extension to the House and Foundation. Use plenty of tape stretched all the way around the house for a tight fit. Put weight on the floors for down-pressure to the Foundation. Line up the Foundation with the Base Floor in back.

If the house interior is finished use paper-binder-clips along the back and thru the doorways for a tight fit with the Liners (don't tear house wallpaper with tape!).



23. Draw shingle guidelines on the Front Roof and the Rear Eave. Draw the first guideline 1/4" above the bottom edge (for the "Starter Row"), or 1/2" (if you are flashing the dripedge); draw the rest of the lines spaced 1" apart.

**Shingle the Roof:** Glue: Use a thick, *solvent-based* panel adhesive available in caulking gun tubes at building supply stores. Look for the "Flammable" warning to know it is a Solvent Based adhesive, and follow the manufacturer's warnings. If there are no warnings or if it says "water clean up", then it is an acrylic based adhesive and will curl the shingles.

A. Glue a "starter row" of 1/4" long Shingles square edge down along the bottom edge of the Roof, or "Flash" the edge with a 1/2" strip of copper (#SC from *Real Good Toys*) to prepare the bottom edge of the Roof for the first row of shingles

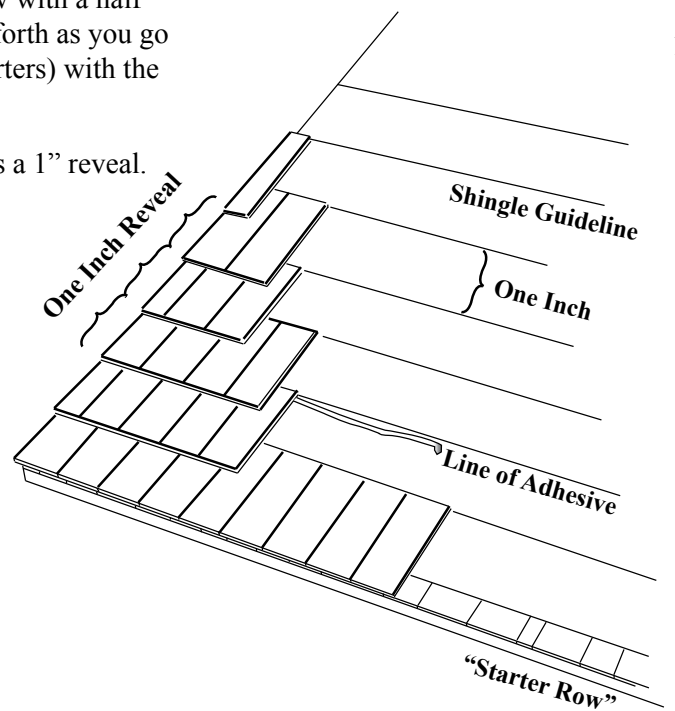
C. Apply a thin line of adhesive just below the lowest guideline all the way across one roof. Press the top edge of a Shingle into the line of glue, smearing the excess upward. Hold the first Shingle steady and press another Shingle into the adhesive, tight to the first. Hold the next Shingle and press in another... etc. all the way across the roof, cutting the last Shingle to fit

Continue up the roof one row at a time. Start the next row with a half Shingle so that the seam between Shingles weaves back and forth as you go up the roof. Line up the top edge of each row (except the starters) with the guidelines.

Cut the top row of Shingles so that the next lower row has a 1" reveal.



Start every-other-row with a half shingle



24. Trim: Glue and tape trim on the front and back face of the Side and the back face of the Peak Sidewall. Glue and tape trim to the House Side in front of the Extension.

Install interior Window or Door Trim after all other interior finishing is complete (Windows, Shutters, and Door are optional and may be packed separately).

Interior Doors cut thru the Liners require an extra piece of 1/8 x 1/8 Trim around the inside of the interior frame.



**You are done with the construction part  
of your Extension  
Enjoy the Rest!**



“Foundation Lift” parts extend the Foundation height to match 13/4” tall Foundations. Use the Foundation Lift to customize your Extension Foundation as part of your customization plan. An 1/8” Door Pad (supplied) under the door cutout or a 1/8” floor spacer (like cardboard or mat board) under applied hardwood flooring will make the tops of the floors match too, if that is desired.

