

ESS RESINWORKS

1:24 SCALE SEMI SHOP



CONGRATULATIONS! YOU NOW HAVE A SEMI SHOP KIT TO DISPLAY YOUR CREATIONS YOU'VE WORKED SO HARD TO MAKE PERFECT. THE HOURS YOU HAVE SPENT BUILDING YOUR MODELS SHOULD MAKE THE CONSTRUCTION OF YOUR SEMI SHOP VERY SIMPLE. SO SIT DOWN AND ENJOY THE PROCESS. IF YOU TAKE YOUR TIME AND BE PATIENT, YOU WILL HAVE ANOTHER MASTERPIECE TO DISPLAY FOR MANY YEARS TO COME.

NOTES: SUPER GLUE IS YOUR BEST FRIEND WHEN ASSEMBLING YOUR SEMI SHOP. PLEASE FOLLOW THE DIRECTIONS ON YOUR GLUE TO THE TEE FROM START TO FINISH AND YOU WILL HAVE A VERY SOLID STRUCTURE.

RECOMMENDED TOOLS: SUPER GLUE, SUPER GLUE ACCELERATOR (OPTIONAL), HAMMER, SANDPAPER, WOODEN CLOTHES PINS OR BINDER CLIPS.

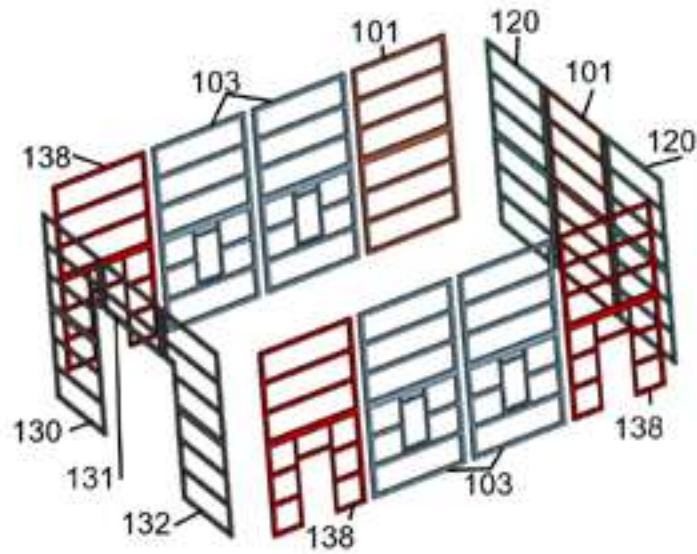


FIG. 1

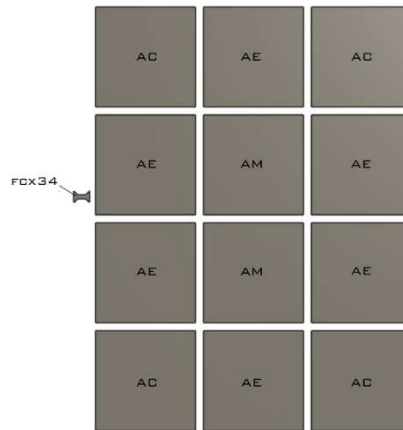


FIG. 2

FLOOR:

- AC - 4 CORNER SQUARES - (HAS 4 NOTCHES)
- AM - 2 CENTER SQUARES - (HAS 8 NOTCHES)
- AE - 6 EDGE SQUARES - (HAS 6 NOTCHES)
- FC - 34 "BOWTIE" CLIPS - (2 EXTRAS INCLUDED)

WALLS:

- 101 - 5 WALL SECTIONS
- 103 - 4 WINDOW SECTION
- 120 - 2 WALL SECTIONS (SLIGHTLY THINNER THAN 101 @121MM WIDE)
- 130 - GARAGE DOOR WALL (LEFT)
- 131 - GARAGE DOOR WALL TOP
- 132 - GARAGE DOOR WALL (RIGHT)
- 138 - 3 MAN DOOR SECTIONS

FLOOR TILES



FIG. 3

YOU MUST START LEVEL AND SQUARE TO FINISH LEVEL AND SQUARE! USE A VERY FLAT AND CLEAN SURFACE TO BUILD YOUR SEMI SHOP!

- 1. LAY OUT YOUR FLOOR TILES. SEE FIG 3. BE SURE THAT ALL OUTSIDE EDGES ARE THE SMOOTH SIDE OF THE TILES AND ALL EDGES ARE FREE OF RESIDUAL MATERIAL.**
- 2. HAVE ALL OF YOUR “BOWTIE” CLIPS READY TO GO. (THIS IS WHERE A SMALL TACK HAMMER MAY COME IN HANDY IF YOUR CLIPS SEEM TO FIT A LITTLE TOO TIGHT)**
- 3. DO NOT APPLY ANY GLUE TO THE EDGES OF THE TILES AS THIS CHANGES THE SIZE OF THE TILE.**



FIG. 4

- 4. ONLY APPLY A SMALL DRIP OF GLUE TO EACH SIDE OF THE “BOWTIE” CUTOUT (SEE FIG. 4) AND PRESS THE CLIP INTO PLACE. REPEAT THIS PROCESS ONE CLIP AT A TIME.**

5. WHEN FINISHED WITH THE FLOOR ASSEMBLY, FEEL FREE TO SAND THE UNDERSIDE IF THE CLIPS DIDN'T GO ALL OF THE WAY IN OR THERE IS RESIDUAL GLUE COMING FROM THE CRACKS OF THE CLIPS.

BUILDING THE WALLS



FIG. 5

NOTE: BUILD ALL OF YOUR WALLS LAYING FLAT BEFORE ATTACHING THEM TO THE FLOOR. (SEE FIG. 5)

1. LAYOUT 4 SECTIONS OF THE RIGHT WALL. ENSURE ALL EDGES ARE SMOOTH AND FREE OF DEBRIS OR RESIDUAL PLASTIC.
2. GLUE EACH WALL SECTION TOGETHER, ONE AT A TIME.
3. USE A STRAIGHT EDGE TO KEEP THE BOTTOM OF THE WALLS EVEN WITH EACHOTHER.
4. REPEAT 1 THROUGH 3 FOR THE LEFT, FRONT, AND REAR WALLS

ATTACH WALLS TO FLOOR



FIG. 6

IMPORTANT: IF INSTALLING MAN DOORS AND/OR GARAGE DOOR FROM ESS RESINWORKS, THEY ARE DESIGNED TO SLIDE INTO THE BOTTOM OF THE WALL WITHOUT THE NEED FOR GLUE. YOU MUST DO THIS BEFORE GLUING YOUR WALLS TO THE FLOOR. NEVER USE GLUE ON ANY DOORS TO THE FRAME!

- 1. STARTING WITH THE RIGHT WALL, GLUE ONE WALL SECTION TO THE FLOOR AT A TIME USING CLOTHES PINS TO HOLD IN PLACE. (SEE FIG. 6)**
- 2. THIS WALL SHOULD BE FLUSH WITH THE OUTSIDE OF THE FLOOR.**
- 3. ATTACH THE FRONT AND REAR WALLS TO THE FLOOR TIGHT AGAINST THE RIGHT WALL. DO NOT GLUE CORNERS TOGETHER JUST YET.**
- 4. THE FRONT AND REAR WALLS SHOULD FALL SHORTER THAN THE FLOOR WHERE THEY WILL MEET THE LEFT WALL.**
- 5. ATTACH THE LEFT WALL TIGHT AGAINST THE FRONT AND REAR WALLS.**
- 6. THE LEFT WALL SHOULD BE EVEN WITH THE EDGE OF THE FLOOR.**

ATTACH CORNERS TOGETHER



FIG. 7

- 1. USING A THIN CA GLUE, SPREAD THE WALL CORNERS APART AND ALLOW A FEW DROPS OF GLUE TO RUN FROM THE TOP TO THE BOTTOM. (SEE FIG. 7)**
- 2. HOLD THE CORNERS TOGETHER WITH CLOTHES PINS. (SEE FIG. 8)**
- 3. REPEAT THIS PROCESS FOR ALL 4 CORNERS.**



FIG. 8

INSTALLING EXTERIOR SIDING

IMPORTANT: PAY VERY CLOSE ATTENTION TO THE DESIGN OF THE SIDING. THE LEFT SIDE OF THE SIDING PANEL WILL BE FLAT ON THE EDGE. THE RIGHT SIDE WILL HAVE A RAISED RIB ON THE EDGE. KEEP THIS FRESH IN YOUR MIND DURING THE ENTIRE SIDING INSTALLATION!



FIG. 9

THE TOP OF THE SIDING SHOULD BE FLUSH WITH THE TOP OF THE WALLS

- 1. FLIP YOUR GARAGE UPSIDE DOWN ON A VERY SMOOTH SURFACE.**
- 2. DRY FIT EACH PIECE OF SIDING BEFORE YOU APPLY ANY GLUE.**
- 3. ONLY APPLY GLUE TO ONE WALL SECTION AT A TIME. (SEE FIG. 9) IF YOU HAVE WAINSCOTTING TO INSTALL, BE SURE YOU DO NOT APPLY ANY GLUE IN THOSE SPOTS, AS YOU ARE ONLY TO APPLY GLUE FOR THE PIECE YOU ARE CURRENTLY INSTALLING.**
- 4. ATTACH THE SIDING TO THE FRAME. MAKE SURE THE TOP OF THE SIDING IS ALL THE WAY DOWN TO YOUR SMOOTH SURFACE.**
- 5. IF INSTALLING WAINSCOTTING, SEE FIG. 10**



FIG. 10

NOTE: WE NOW INCLUDE “INSULATION” WITH OUR SHOP KITS TO ELIMINATE POSSIBLE LIGHT TRANSFER THROUGH THE THIN SIDING PANELS. THESE FIT PERFECTLY INSIDE EVERY VOID IN THE WALL SECTIONS. IF YOU CHOOSE TO USE THEM, NOW IS THE TIME TO INSTALL THEM. (SEE FIG. 11) THEY FIT SNUG ENOUGH THAT THEY WILL NOT NEED ANY GLUE. ESPECIALLY IF YOU ARE INSTALLING INTERIOR SIDING.



FIG. 11

INSTALLING INTERIOR SIDING



FIG. 12

- 1. DRY-FIT EVERY PANEL BEFORE USING GLUE!**
- 2. REMEMBER – LEFT FLAT – RIGHT RIB**
- 3. GLUE EACH INTERIOR PANEL 1 AT A TIME, MAKING SURE THE BOTTOM LAYS FLAT ON THE FLOOR. (SEE FIG. 12)**
- 4. MAKE SURE TO LINE UP THE INTERIOR SIDING PANELS WITH THE JOINTS IN THE WALL SECTIONS.**
- 5. DO NOT BE CONCERNED WITH THE 4 CORNERS. THE INTERIOR TRIM WILL COVER THOSE GAPS. (SEE FIG. 13)**



FIG. 13

INSTALL WALL BEAMS

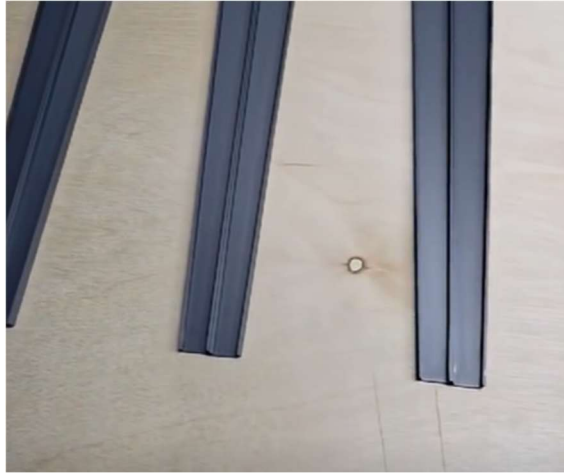


FIG. 14

- 1. THERE ARE 6 WALL BEAMS TO BUILD FROM 12 HALVES.**
- 2. DRY-FIT MATCH ALL 12 WALL BEAM HALVES BACK TO BACK TO FORM 6 BEAMS.**
- 3. GLUE THEM TOGETHER AND PLACE CLOTHES PINS TO HOLD THE HALVES TOGETHER UNTIL DRY. (SEE FIG. 15)**

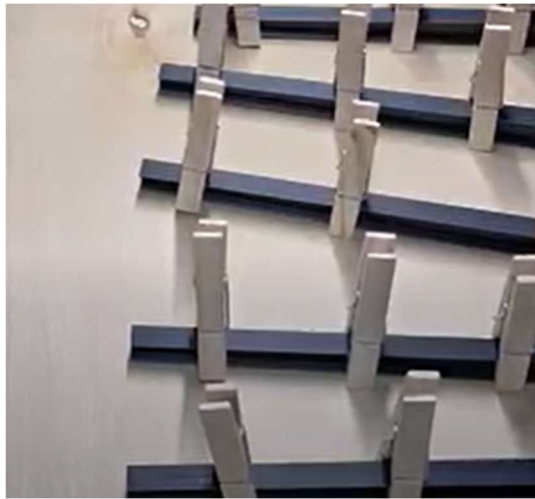


FIG. 15

- 4. ATTATCH THE BEAMS TO THE LEFT AND RIGHT WALLS CENTERED AT EACH SIDING JOINT. (SEE FIG. 16) THE SMALLER END OF THE BEAMS GO AGAINST THE FLOOR.**
- 5. THE WALL BEAMS DO NOT REACH THE TOPS OF THE WALLS INTENTIONALLY. (SEE FIG. 17) THE ROOF BEAMS WILL REST ON TOP OF THE WALL BEAMS AND WILL THEN BE FLUSH WITH THE TOP OF THE WALLS.**

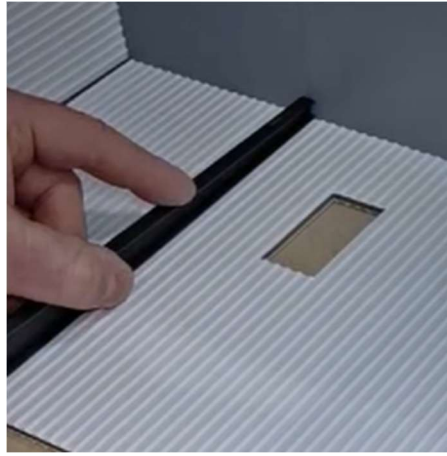


FIG. 16

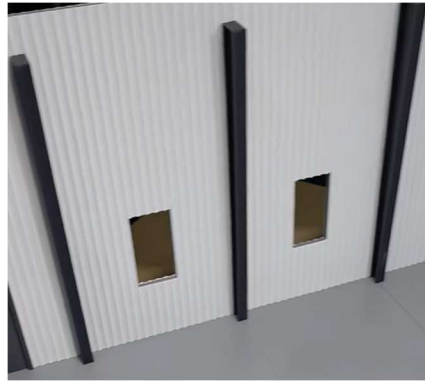


FIG. 17

INSTALL INTERIOR TRIM



FIG. 18

- 1. INSTALL 4 PIECES OF CORNER TRIM (SEE FIG. 18)**
- 2. THERE IS ENOUGH BASEBOARD TO MAKE MISTAKES. HOWEVER, TAKE YOUR TIME AND CUT THE BASEBOARD TRIM TO DRY-FIT NICELY BETWEEN THE WALL BEAMS AND DOORS.**
- 3. ONCE YOU ARE SATISFIED WITH THE FIT OF ALL OF YOUR BASEBOARD PIECES, GLUE THEM INTO PLACE.**

INSTALL WINDOWS



FIG. 19

- 1. LAY YOUR SHOP ON EITHER LEFT OR RIGHT SIDE.**
- 2. THE WINDOWS FIT THE HOLES PERFECTLY. WHEN PLACED INTO THEIR LOCATION, THEY WILL BE FLUSH WITH THE OUTSIDE OF THE EXTERIOR SIDING.**
- 3. GLUE YOUR WINDOWS INTO PLACE 4 TIMES.**
- 4. ONCE ALL 4 WINDOWS ARE INSTALLED AND DRY, YOU CAN GLUE YOUR INTERIOR AND EXTERIOR TRIM TO THE WINDOW AND SIDING. (SEE FIG. 20)**



FIG. 20



FIG. 21 - FINISHED LOOK

ROOF BEAMS



FIG. 22

THERE ARE 6 ROOF BEAMS IN 12 HALVES AND 2 CENTER BEAMS

- 1. MATCH THE 12 ROOF HALVES TO FORM 6 BEAMS.**
- 2. GLUE THE HALVES TOGETHER JUST LIKE YOU DID FOR THE WALL BEAMS. (SEE FIG. 23)**

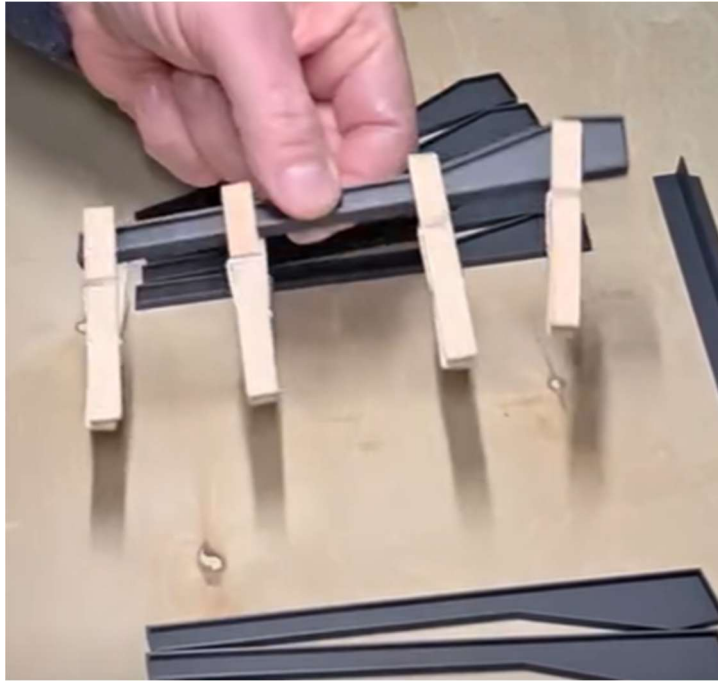


FIG. 23

3. ATTACH THE 6 ROOF BEAMS TO THE 6 WALL BEAMS (SEE FIG. 24)



FIG. 24

- 4. ONCE ALL 6 ROOF BEAMS ARE INSTALLED, GLUE THE CENTER BEAMS IN PLACE. STARTING IN THE CENTER.**
- 5. MATCH THE END OF ONE OF THE CENTER BEAMS TO THE CENTER JOINT OF THE CENTER ROOF BEAMS AND GLUE INTO PLACE. (SEE FIG. 25)**



FIG. 25

- 6. SQUARE THE REMAINING 2 ROOF BEAMS AND GLUE THEM TO THE CENTER BEAM. (SEE FIG. 26)**
- 7. REPEAT WITH THE 2ND CENTER BEAM.**

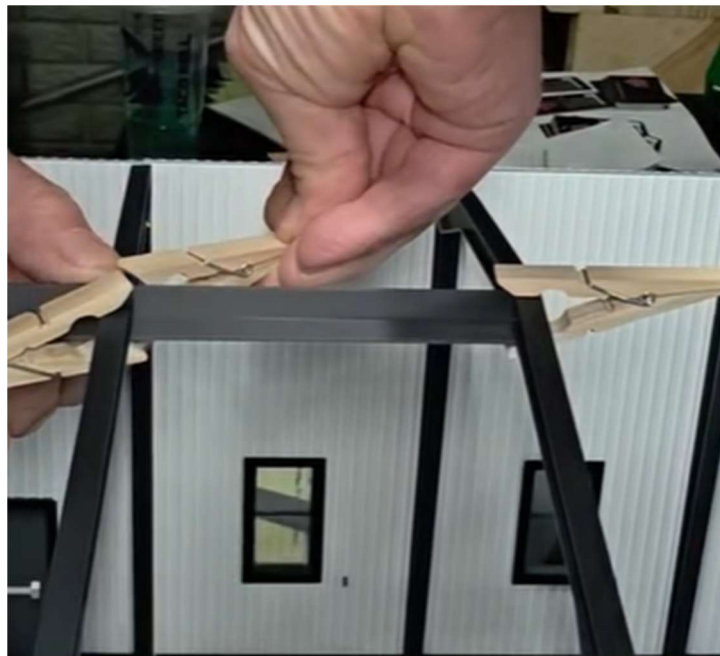


FIG. 26



FIG. 27 FINISHED LOOK

- 8. WRAP THIS UP BY INSTALLING THE 4 GABLE ENDS**
- 9. GLUE THE GABLE ENDS TO THE TOP WALL AND THE ENDS OF THE CENTER BEAMS. (SEE FIG. 28)**

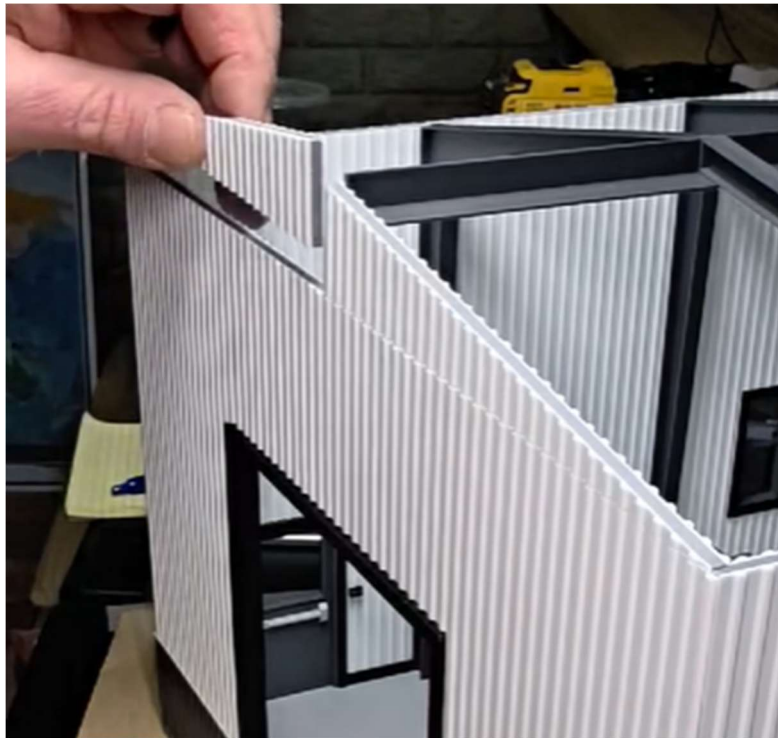


FIG. 28

YOUR SEMI SHOP IS ALL FINISHED. BUT IS IT? THERE IS NO END TO THIS HOBBY. YOU CAN ADD OUR DUCTWORK, LIGHTING, OUTLETS, SWITCHES, METER HEAD, BREAKER BOX, WALL HEATERS AND SO MUCH MORE.

PLEASE SHARE YOUR EXPERIENCE AND YOUR CONSTRUCTION PICS WITH US AND DO NOT HESITATE TO REACH OUT FOR HELP AT ESSRESINWORKS@OUTLOOK.COM

INSTRUCTIONS FOR THE AVAILABLE ROLL-UP DOORS AND DUCTWORK CAN BE FOUND AT [HTTPS://ESSRESINWORKS.COM/SUPPORT](https://essresinworks.com/support)

THERE ARE 16 TOTAL VIDEOS OF THE BUILD OF OUR DEMO SEMI SHOP THAT INCLUDES EVERY STEP IN FINE DETAIL. INCLUDING THE ROLL-UP DOOR, DUCTWORK/LIGHTING AND FULL ROOF SYSTEM ON OUR FACEBOOK REELS. WE HIGHLY RECOMMEND THAT YOU VIEW THESE VIDEOS TO ENSURE A FLAWLESS PROCESS FOR YOU AND YOUR FINISHED PRODUCT.

REPLACEMENT PARTS ARE AVAILABLE AT A MINIMAL CHARGE PLUS SHIPPING AND HANDLING. IF YOU HAVE ANY QUESTIONS OR NEED REPLACEMENT PARTS, CONTACT US VIA ESSRESINWORKS@OUTLOOK.COM OR THROUGH OUR WEBSITE AT [WWW.ESSRESINWORKS.COM](http://www.essresinworks.com)