ESS RESINWORKS

1:48 SCALE HANGAR

CONGRATULATIONS! YOU NOW HAVE A HANGAR 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 HANGAR 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 HANGAR. 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.

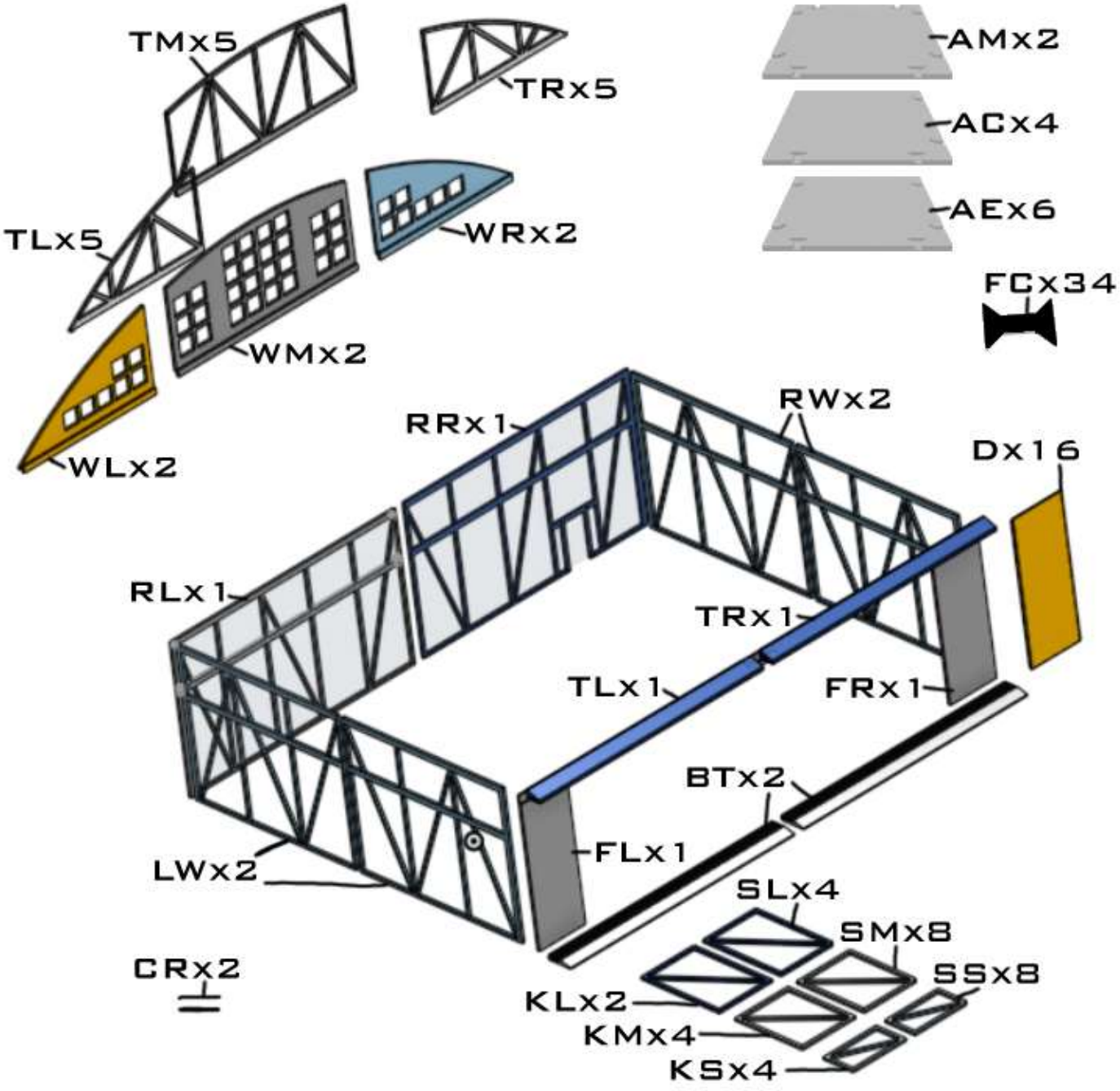

FIG. 1

CAREFULLY GO THROUGH YOUR KIT AND MAKE SURE YOU HAVE ALL OF THE PARTS LISTED BELOW. (USE FIG 1. FOR REFERENCE)

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:

- LW - 2 LEFT SIDE WALLS
- RW - 2 RIGHT SIDE WALLS
- RL - 1 REAR WALL WITHOUT DOOR OPENING
- RR - 1 REAR WALL WITH DOOR OPENING
- FL - 1 FRONT LEFT WALL
- FR - 1 FRONT RIGHT WALL

WINDOW PANELS:

- WM - 2 CENTER PANELS (28 WINDOWS EA.)
- WL - 2 LEFT PANELS (7 WINDOWS EA.)
- WR – 2 RIGHT PANELS (7 WINDOWS EA.)

TRUSSES:

- TM - 5 CENTER TRUSSES
- TL – 5 LEFT TRUSSES
- TR – 5 RIGHT TRUSSES
- SL - 4 LARGE SWAY BRACES
- SM - 8 MEDIUM SWAY BRACES
- SS - 8 SMALL SWAY BRACES

- KL - 2 LARGE SWAY BRACES WITH CORNER NOTCH
- KM - 4 MEDIUM SWAY BRACES WITH CORNER NOTCH
- KS - 4 SMALL SWAY BRACES WITH CORNER NOTCH.

DOOR TRACKS:

- TL - 1 UPPER LEFT
- TR - 1 UPPER RIGHT
- CR - 2 TOP TRACK CONNECTOR RODS
- BT – 2 LOWER TRACKS

DOORS:

- 1 MAN DOOR KIT WITH HANDLE, CRASH BAR AND AUTOMATIC CLOSER
- D - 16 FRONT DOOR PANELS

FLOOR

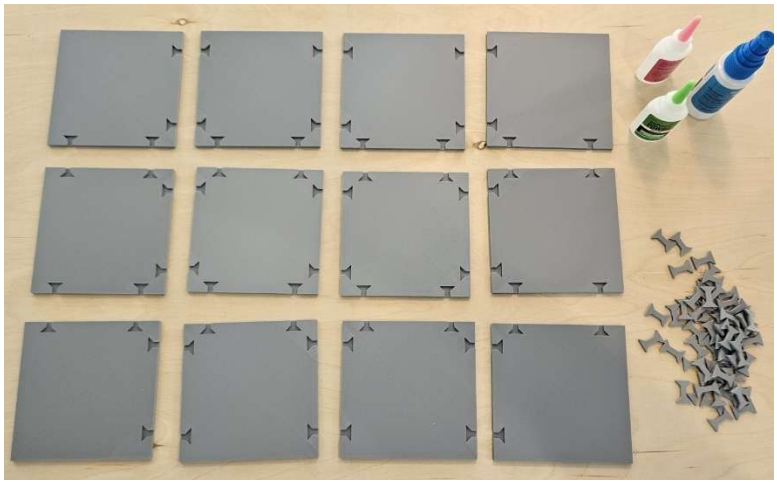

Fig. 2

YOU MUST START LEVEL AND SQUARE TO END LEVEL AND SQUARE! USE A VERY FLAT AND CLEAN SURFACE TO BUILD YOUR HANGAR!

1. LAY OUT YOUR FLOOR TILES. SEE FIG 2. BE SURE THAT ALL OUTSIDE EDGES ARE THE SMOOTH SIDE OF THE TILES.
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. 3

4. ONLY APPLY A SMALL DRIP OF GLUE TO EACH SIDE OF THE "BOWTIE" CUTOUT (SEE FIG. 3) 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.

Walls

Note: Build all of your walls laying flat before attaching them to the floor.

Rear Wall

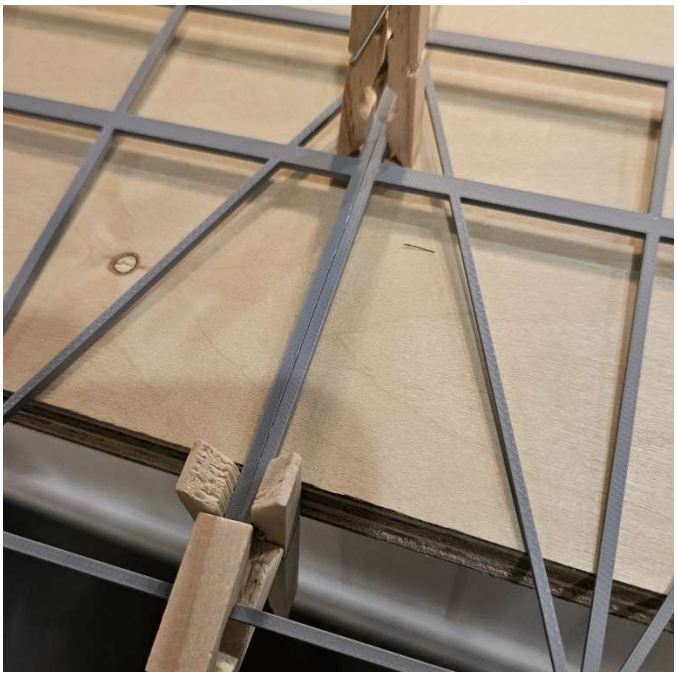

Fig. 4

1. Clip the edges together using 2 clothes pins or binder clips. (See fig. 4)
2. Remove one clip and add a drip of glue between the pieces and quickly replace the clip.
3. Repeat this process until all of your clips are replaced with glue.
4. Add the window panels, using the same process. Be sure that the window panels fit tight against the wall. (See fig. 5)

FIG. 5

5. INSERT THE MAN DOOR BY SLIDING IT INTO THE WALL FROM THE BOTTOM. THE MAN DOOR CAN BE LOCATED REAR RIGHT OR REAR LEFT. THIS IS YOUR CHOICE, BUT MUST BE INSERTED BEFORE ATTACHING THE WALL TO THE FLOOR)

FRONT WALL

1. THE 3 WINDOW PANELS SHOULD BE GLUED TOGETHER USING THE SAME PROCESS FOR THE REAR WINDOW PANELS.
2. THE WINDOW PANELS WILL HOLD THE FRONT LEFT AND FRONT RIGHT WALLS TIGHT TOGETHER.

FIG. 6

3. ATTACH THE 2 TRACKS TOGETHER USING THE CONNECTOR RODS (SEE FIG. 6 RIGHT) FOR PROPER ALIGHNMENT. (GLUE IS NOT NECESSARY)
4. GLUE THE UPPER LEFT DOOR TRACK (TL) TO THE FRONT LEFT WALL (FL) AND THE UPPER RIGHT DOOR TRACK (TR) TO THE FRONT RIGHT WALL (FR). (SEE FIG. 6 LEFT)
5. ATTACH WINDOW PANELS TO THE ASSEMBLED FRONT WALL (SEE FIG, 7)

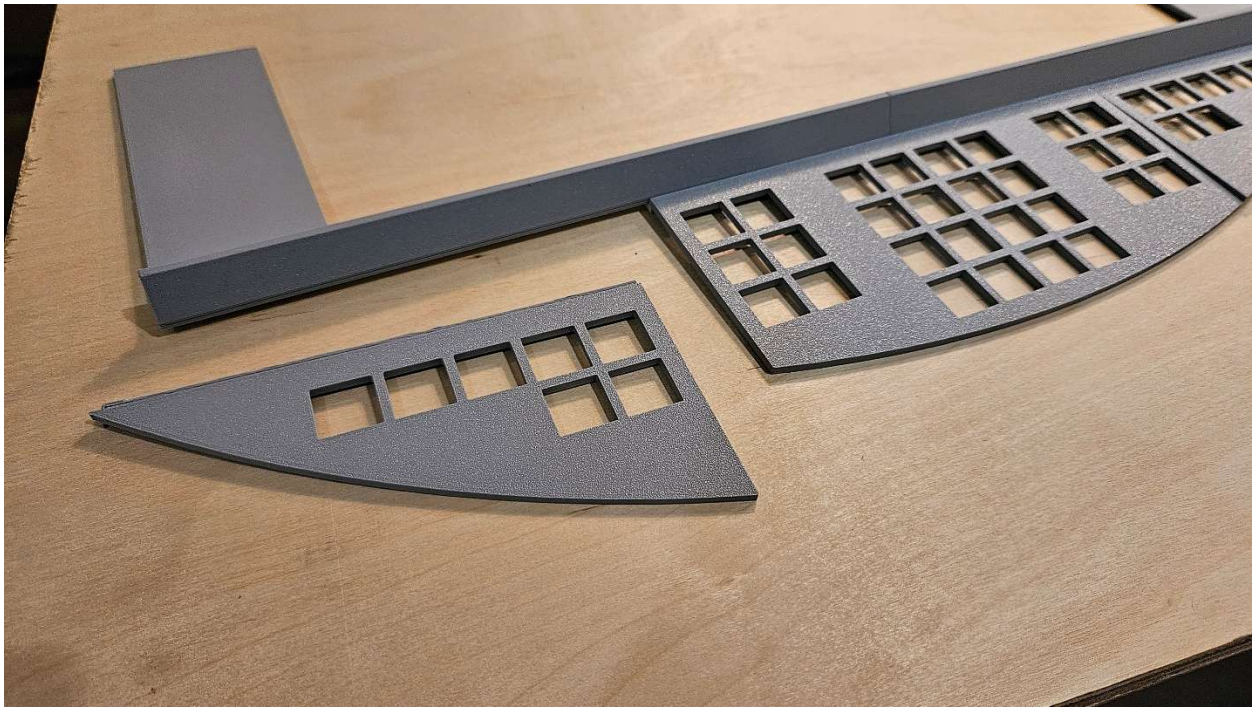

FIG. 7

SIDE WALLS

1. THE LEFT AND RIGHT WALLS SHOULD BE IDENTICLE IN LENGTH ONCE ASSEMBLED. DRY FIT YOUR SIDE WALLS BEFORE CLAMPING/GLUING THEM TOGETHER. (SEE FIG. 4)

ATTACH WALLS TO THE FLOOR

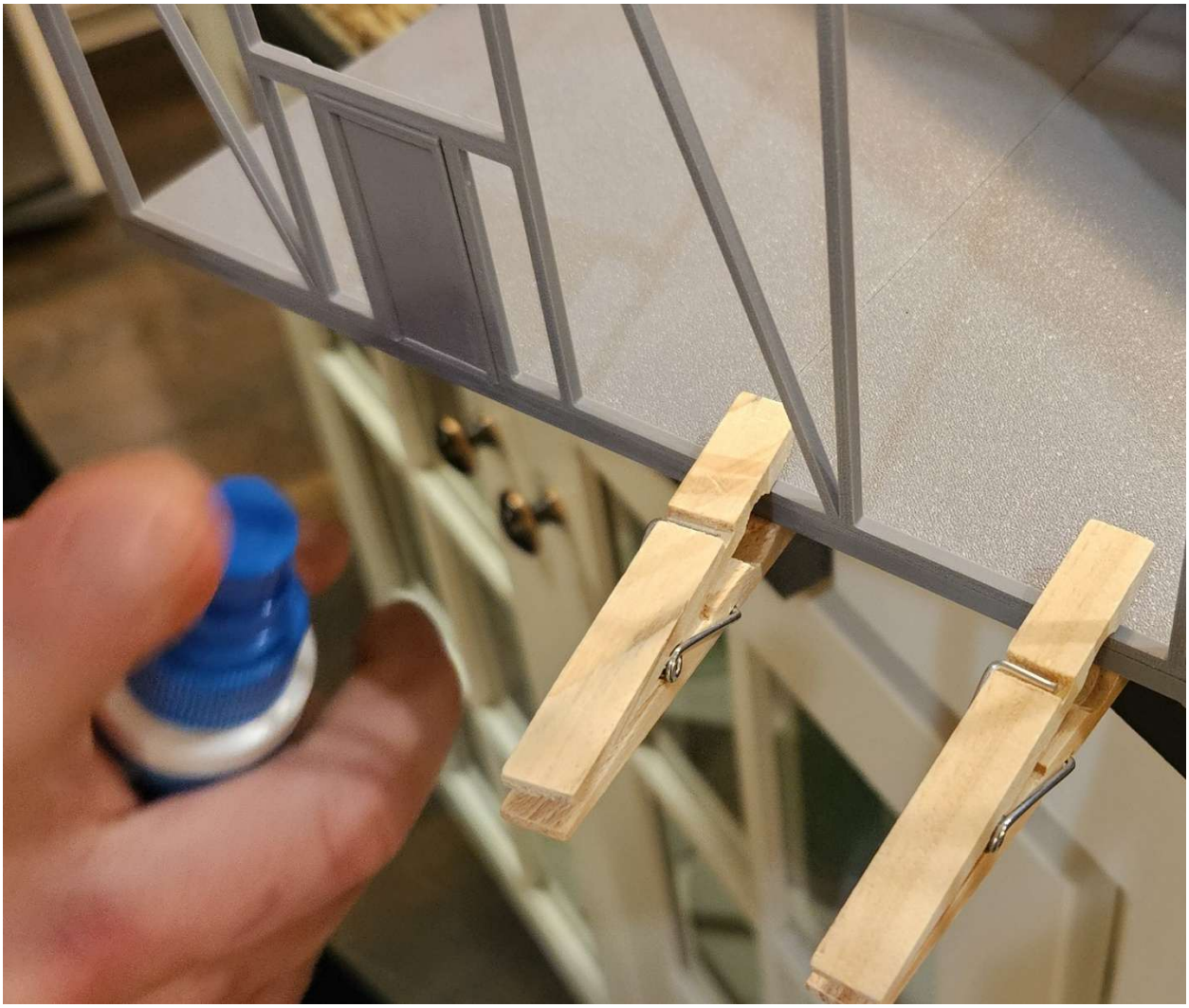

FIG. 8

1. CLIP THE ASSEMBLED REAR WALL FLUSH WITH THE FLOOR USING AT LEAST 4 CLIPS. LIFT OFF THE CLIP, SEPARATE THE WALL FROM THE FLOOR, APPLY A SMALL DRIP OF GLUE, REPLACE THE CLIP AND REPEAT FOR EACH WALL SECTION. (SEE FIG. 8) . YOU MAY USE ACCELERATOR HERE.
2. CLIP THE SIDE WALLS FLUSH WITH THE FLOOR USING AT LEAST 4 CLIPS. LIFT OFF THE CLIP, SEPARATE THE WALL FROM THE FLOOR, APPLY A SMALL DRIP OF GLUE, REPLACE THE CLIP AND REPEAT FOR EACH WALL SECTION.
3. ATTACH THE FRONT WALL TO EACH SIDE WALL IN THE SAME WAY.
4. ATTACH THE CORNERS OF THE REAR AND SIDE WALLS IN THE SAME WAY.

IMPORTANT NOTE: SIDE WALLS SHOULD FIT BETWEEN THE FRONT AND REAR WALLS

PICTURE OF WHAT YOUR HANGAR SHOULD LOOK LIKE AT THIS POINT.

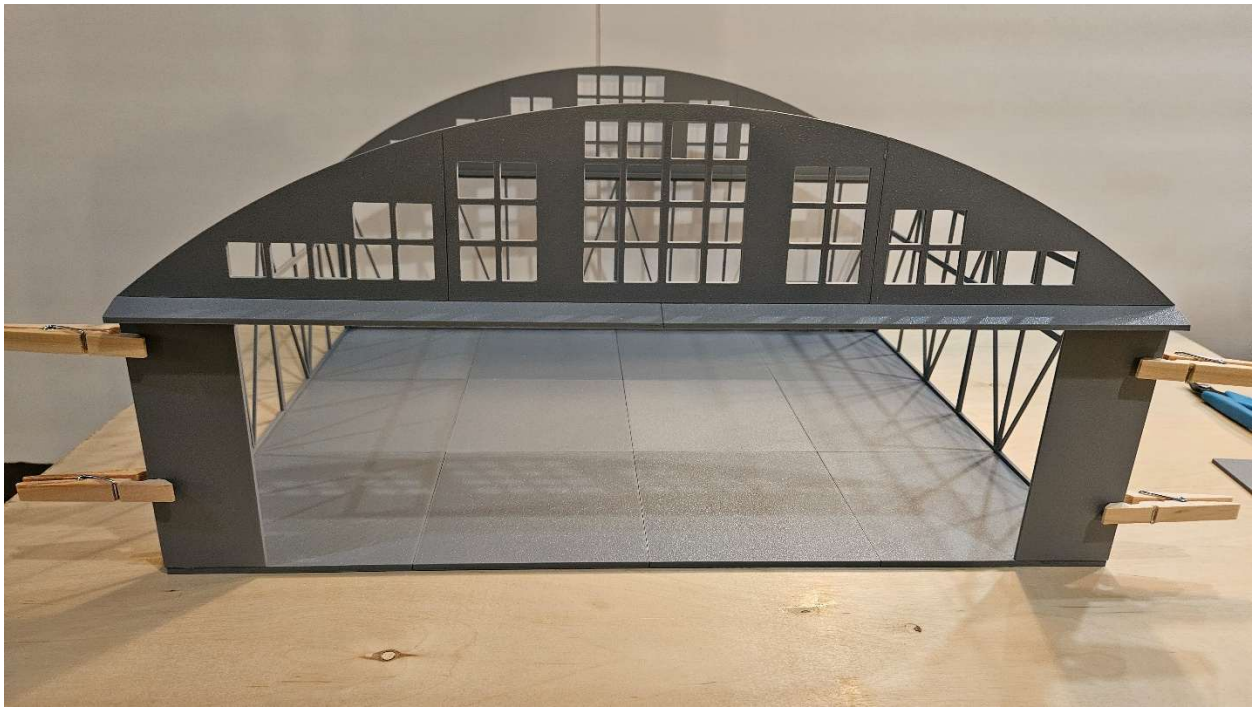

FIG. 9

TRUSSES

IT IS NOW TIME TO ASSEMBLE YOUR TRUSSES. HAVE SEVERAL CLIPS READY TO GO.

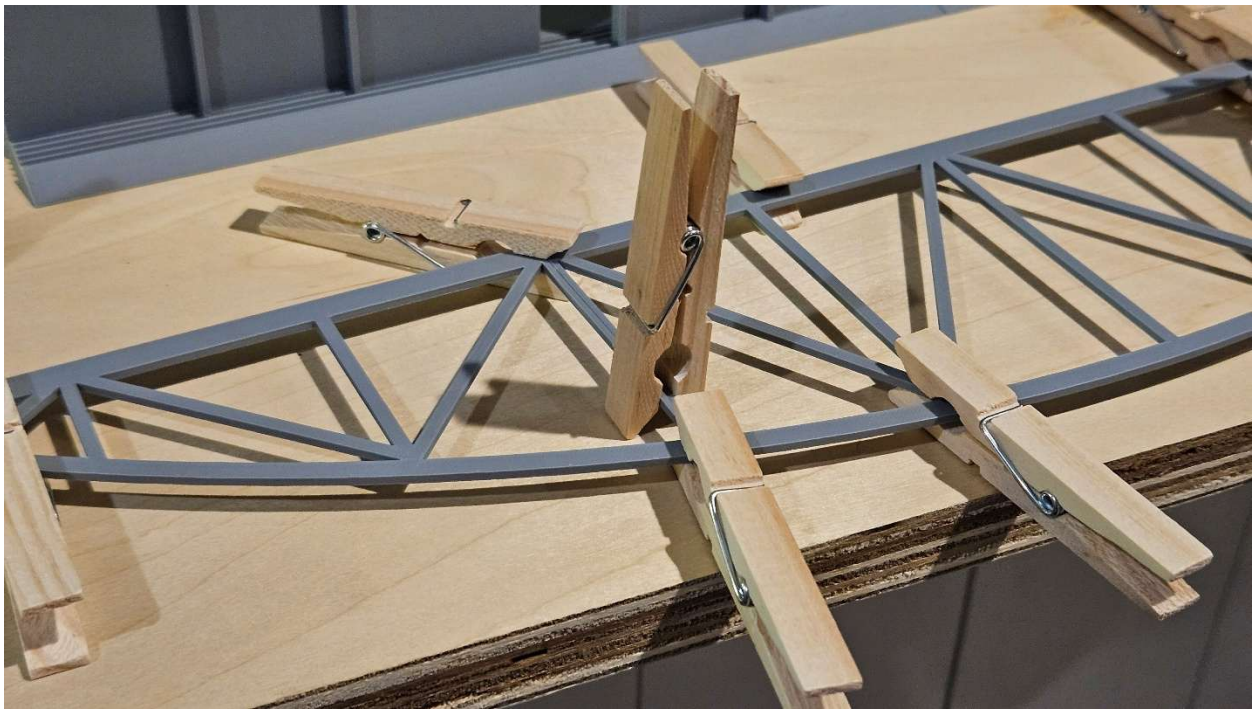

FIG. 10

1. INSTALL A CLIP ON ALL EDGES OF TRUSS PIECES. THIS KEEPS THE PIECES OFF OF THE BUILD SURFACE SO YOU DO NOT ACCIDENTALLY GLUE THE TRUSS TO YOUR BUILD SURFACE. (SEE FIG. 10)

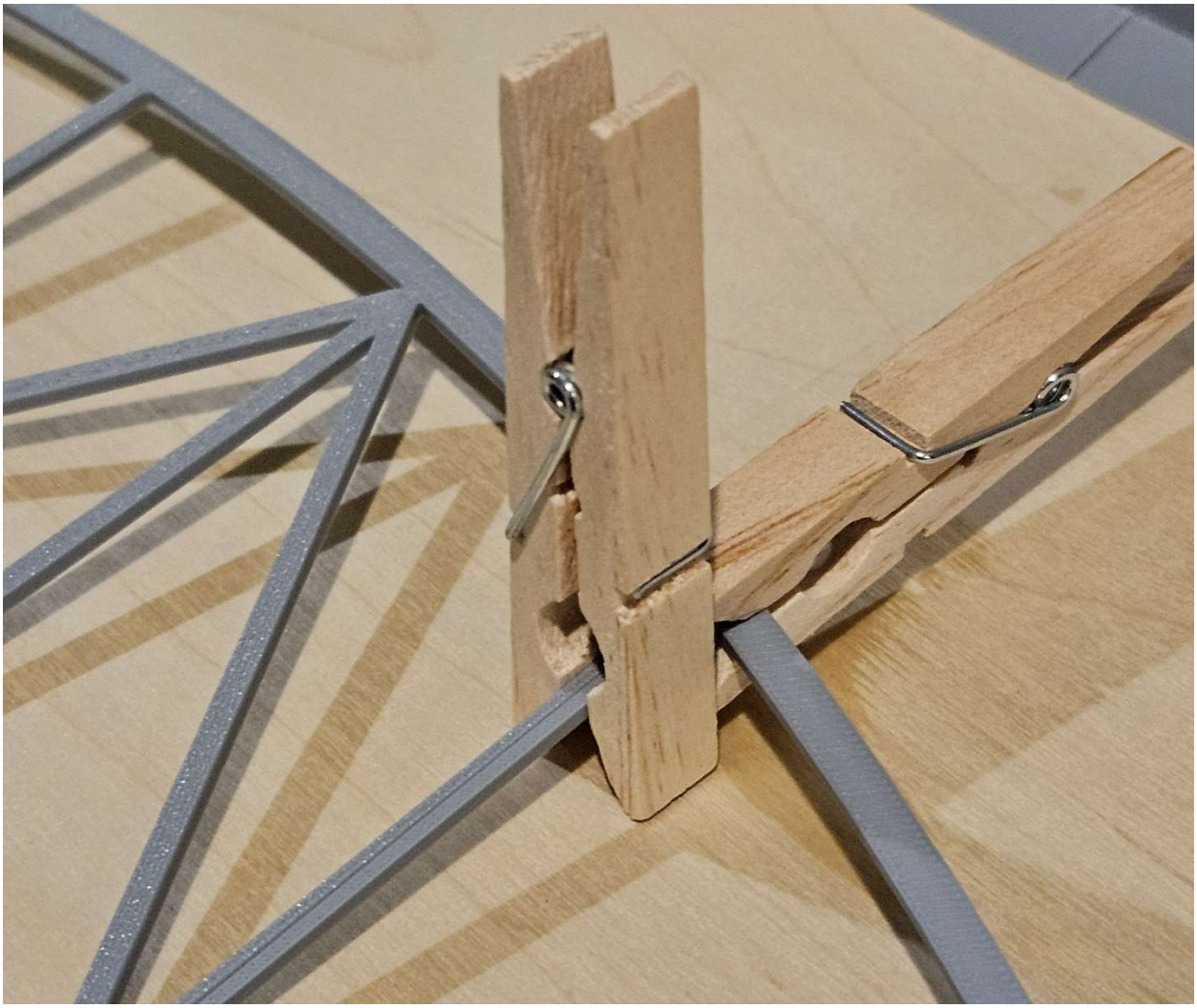

FIG. 11

2. USE THE SAME PROCESS TO GLUE YOUR TRUSSES TOGETHER THAT YOU USED TO GLUE YOUR WALLS TOGETHER. BUILD ALL 5 TRUSSES.

CROSSBRACES

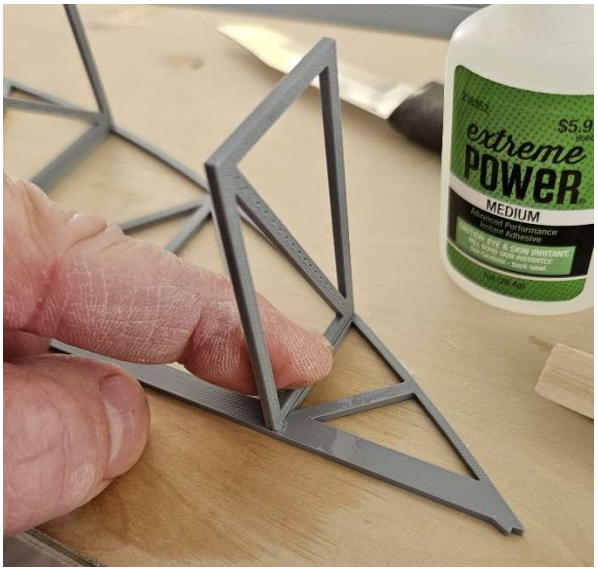

FIG. 12

1. ATTACH THE CROSS BRACES TO EACH TRUSS. BE SURE TO APPLY PLENTY OF PRESSURE, AS THIS WILL HELP KEEP THE CROSSBRACES SQUARE TO THE TRUSSES. (SEE FIG. 12)
2. CAUTION: THERE ARE CROSS BRACES THAT HAVE A SMALL NOTCH CUTOUT OF THE CORNERS. THESE ARE TO BE USED ON THE TRUSSES THAT WILL MEET THE REAR AND FRONT WALLS. (SEE FIG. 13)

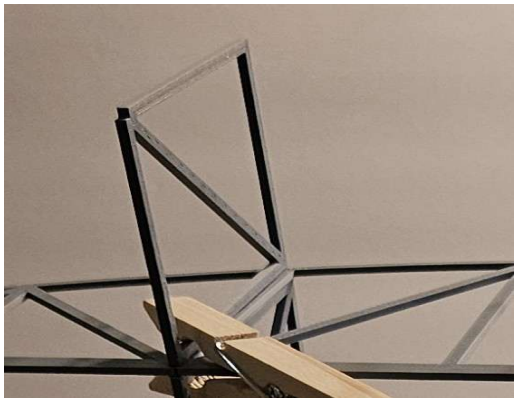

FIG. 13

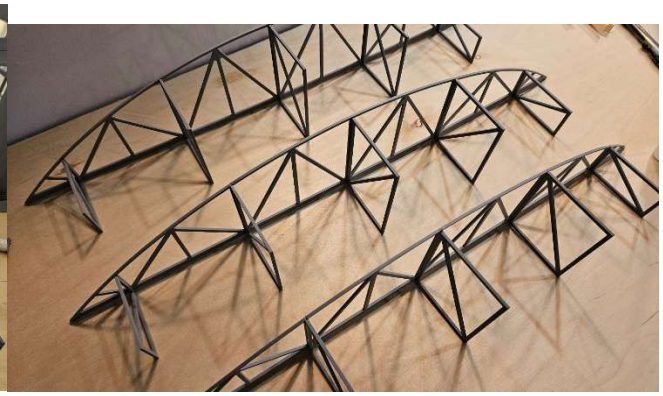

FIG. 14 (LEFT) – FIG.15 (RIGHT)

ALL OF THE ANGLES OF THE SWAY BRACES SHOULD ALTERNATE AS SEEN IN FIG. 14 AND FIG. 15.

3. ONCE ALL 5 TRUSSES ARE ASSEMBLED, START STACKING YOUR TRUSSES AND GLUE THEM TOGETHER UNTIL YOUR ENTIRE TRUSS SYSTEM IS COMPLETE. (SEE FIG. 16. AGAIN, THE SWAY BRACES WITH THE NOTCH MUST BE ON THE ENDS OF THE FINAL ASSEMBLY WHERE THE TRUSS SYSTEM MEETS THE FRONT AND REAR WALLS)

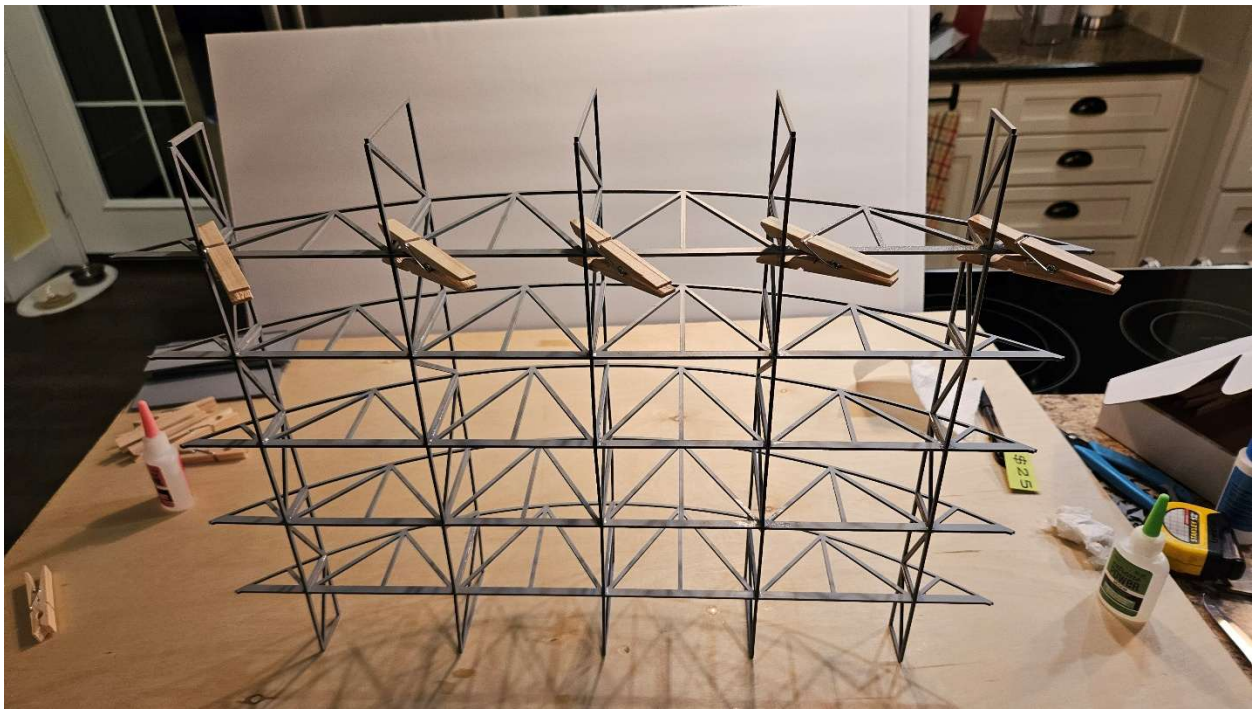

FIG. 16

4. YOU ARE NOW READY TO ATTACH YOUR COMPLETED TRUSS STRUCTURE TO THE TOP OF THE WALLS. DO NOT ATTEMPT TO GLUE ALL POINTS AT ONCE. JUST LIKE WE HAVE DONE TO THIS POINT, GLUE EACH CONTACT POINT ONE AT A TIME. IF YOU DO THIS CORRECTLY, YOUR HANGAR WILL END UP PERFECTLY SQUARE. IT IS POSSIBLE THAT YOUR FRONT AND REAR WINDOW SECTIONS ARE NOT PERFECTLY SQUARE TO THE FLOOR. USE THE TRUSS STRUCTURE TO YOUR ADVANTAGE AND GLUE THE TRUSS STRUCTURE TO THE INSIDE OF THE FRONT WALL FIRST. FORCE THE WALL TO BE STRAIGHT AND START GLUING YOUR CONTACT POINTS WHERE THE TRUSS STRUCTURE MEETS THE SIDE WALLS, WORKING YOUR WAY TOWARD THE REAR WALL.

PICTURE OF WHAT YOUR HANGAR SHOULD LOOK LIKE AT THIS POINT.

FIG. 17 (AIRPLANE MODELS NOT INCLUDED)

DOOR TRACKS

1. GLUE THE LOWER LEFT AND RIGHT DOOR TRACKS TO THE FRONT OF THE FLOOR. (SEE FIG. 18) THESE 2 PARTS ARE IDENTICAL. THERE IS NO LEFT OR RIGHT.

FIG. 18

DOORS

1. THERE ARE 16 DOOR PIECES THAT ARE TO BE GLUED BACK-TO-BACK 8 TIMES LIKE THE PICTURE BELOW. THIS WILL FORM 8 IDENTICAL DOORS. (SEE FIG. 19)

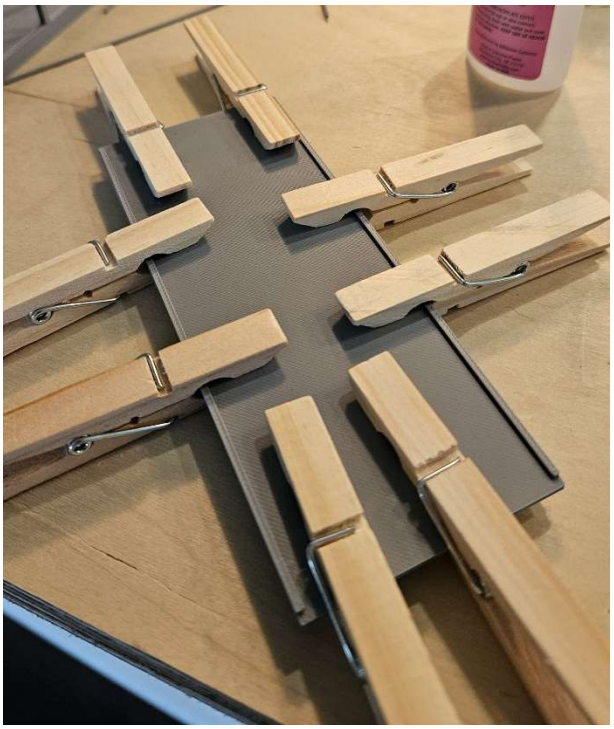

FIG. 19

INSTALL DOORS

1. YOU MAY NEED TO TRIM THE DOORS OR SAND THE EDGES IF THEY WERE NOT GLUED PERFECTLY SQUARE. ONCE INSTALLED, THEY MAY FIT TIGHT AND NEED MORE TRIMMING. IF THEY ARE JUST SNUG, OPERATING THEM BACK AND FORTH SHOULD SMOOTH THE OPERATION.
2. THE DOORS MUST BE INSTALLED TO OVERLAP EACHOTHER. STARTING ON THE LEFT SIDE, INSTALL THE FIRST DOOR HALF WAY ONTO THE FRONT TRACK. INSTALL THE NEXT DOOR HALF WAY ON THE NEXT TRACK BEHIND THE SECOND DOOR. INSTALL THE LAST DOOR HALFWAY ONTO THE REAR TRACK BEHIND THE THIRD DOOR. (SEE FIG. 20)
3. REPEAT STEP 2 FOR THE RIGHT DOORS.

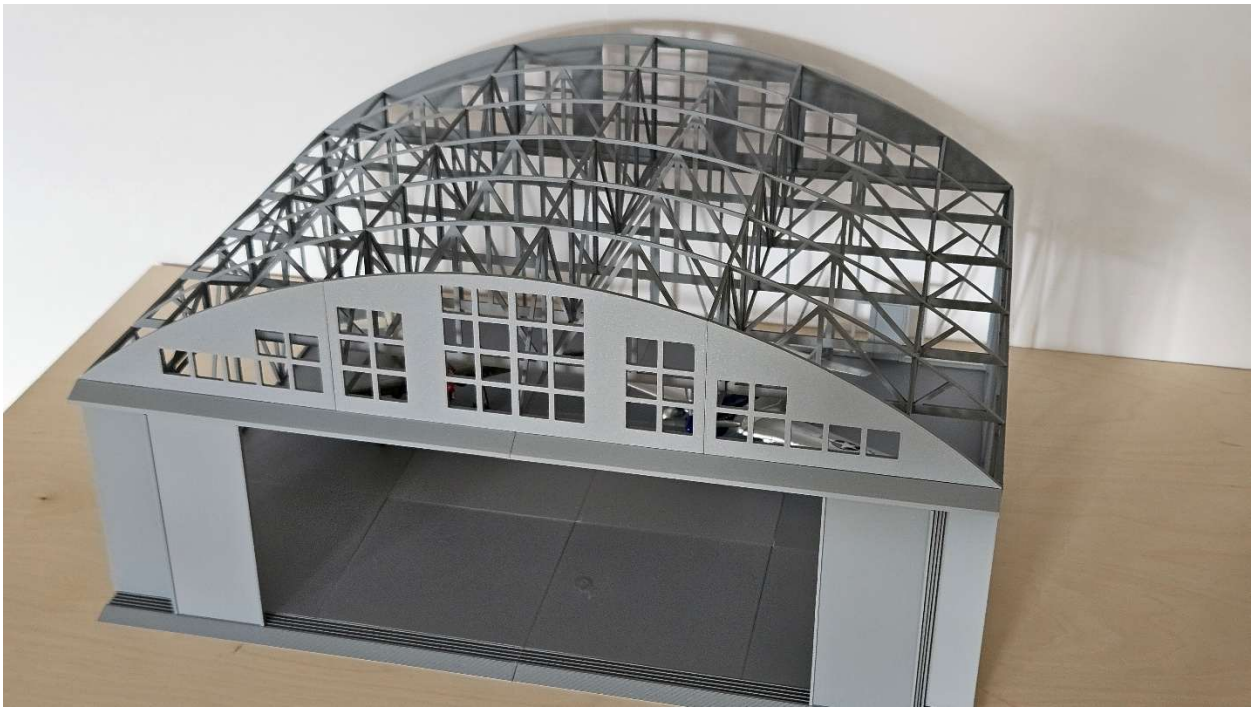

FIG. 20

CONGRATULATIONS! YOU ARE READY FOR SIDING AND ROOFING!

We offer a siding and/or roofing package for your hangar

Contact us or visit our website for information.

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