

# HART™



## 3D Wood Houses

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# PROJECT PLAN



**Skill Level:** Beginner

# Materials

Item	Qty
1" x 8" x 8' Unfinished Whitewood Board	3
Finishing Nails	1 box
Sanding Block: 40-Grit	1
Orbital Sanding Pad: 320-Grit	1
Chalk Paint	1 qt.
Foam Roller	1
Paint Tray	1
Spray Paint	2 cans

\* Board Dimensions are "nominal". Actual dimensions are smaller due to lumber industry standards. Cuts are actual length.

\*\* Starting grit will depend on board surface condition, a rough surface will require starting with a coarse grit first.

-  Grit is measured in the coarseness of the particles on the sandpaper. The lower the grit number, the coarser the paper. Heavy sanding would require 60 to 80 grit, medium sanding would require 120 to 220 grit, and finish sanding would require 320 to 400 grit. Super fine sanding would be 600 grit and higher.
-  A select/premium board or plywood comes with a smoother surface finish. It is clear or has very few tight knots, and it will have straight and sharp edges. This grade of wood pairs well with other boards or panels better and requires less time to sand and finish.

# Tools Used



10" Miter Saw



20V Circular Saw



1/2" Drill/Driver



Orbital Sander



Jigsaw



Permanent Marker



20V 1.5Ah Battery




20V Fast Charger



Tape Measure

Also Need:  
Finishing Nailer

-  **Battery Tip:** A 4.0 Ah battery is recommended to be paired with high amp draw tools for maximum efficiency.

## Lumber Cut List

Board*	Description	Cut To	Qty
1" x 8"	Large House Triangle Point	18"	2
1" x 8"	Large House Sides	14-15/16"	2
1" x 8"	Medium House Triangle Point	13"	2
1" x 8"	Medium House Sides	10"	2
1" x 8"	Small House Triangle Point	9"	2
1" x 8"	Small House Sides	6"	2
1" x 8"	Top A	10-3/4" x 6-3/8"	2

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## Assembly Instructions

### Step 1

After making the appropriate cuts at a 0-degree angle for each triangle point, you will begin to make the angle cuts.

To get the correct angle, first measure the board and mark the middle at the very top of the board at 3-5/8."

Next, measure down 3.042" from the top and mark that measurement. Then flip the board over and measure 3.042" on the opposite side and mark that measurement.

### Step 2

Move the blade on the bottom of your miter saw so that you can cut a 40-degree angle—line up the top measurement and the side measurement and cut. Flip your board over and repeat the same process.

### Step 3

Using your miter saw, make the remaining side cuts for each house at a 0-degree angle.

## Step 4

Next, use your miter saw to cut the board 10-3/4" long at a 0-degree angle.

Measure the board 5-3/4" and mark the measurement. Using your circular saw, cut the remaining width off to achieve the desired dimensions.

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## Step 5

You will do the same process as in step four, but you will cut 6-3/8" for this width measurement.

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## Step 6

At this point, you will want to use your pencil/sharpie to draw out the whereabouts of the windows and openings for your houses.

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## Step 7

Using your drill with the appropriate size drill bit for your windows, make pilot holes in the corners of the windows and openings to allow your jigsaw to have a starting point.

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## Step 8

Use your jigsaw to cut out the windows and openings for each of the houses.

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## Step 9

Sand all of your wood surfaces using your orbital sander. For the windows and openings, use the hand sander instead to reach the tiny crevices.

## Step 10

Once all pieces are sanded, assemble each house using a finishing nailer and the finishing nails. Going clockwise, you will have a triangle piece, a side piece, a triangle piece, and the final side piece. You will adhere Top B to the base and then Top A.

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## Step 11

Use a foam roller to paint the inside and outside of each house the color of your choosing (we used chalk paint). Once the paint has dried, apply two thin coats of spray paint to finish the houses' aesthetics and durability.

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## Step 12

Add outside timer candles and display!