# How to Build a Deer Stand



Trevor Agan

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Introduction

# Introduction

This is a manual for anybody who does not know how to build a deer stand and wants to build their own, but understands tools. A deer stand is what hunters sit in when they are hunting deer. Deer stands help keep hunters hidden and block their scent from deer. The deer stand you will be making is suitable for any type of land and weapon you use for deer hunting.

The benefit of building your own deer stand instead of buying one is the cost reduction. It is cheaper to build your own. There are two main parts to a deer stand-the blind and tower. The blind consists of a frame, door, walls, and windows. The tower consists of a platform, legs, and a ladder.

You will use tools such as a welder, chop saw, jig saw, skill saw, grinder, and cordless drill. You will need to know how to use these tools before you can build a deer stand. The tools that you will use can be dangerous. Make sure you read and obey the warning label boxes for the tools. The two types of warning labels are a danger box and caution box. The danger box is red and the caution box is orange.

Danger	Caution

# **Chapter 1- Building the Blind**



# **Chapter 1- Building the Blind**

The blind for your deer stand will be 4-foot long by 4-foot wide by 6-foot high. The frame of the blind and door will be made out of 1-inch square tubing. The walls and door will be made up of ply wood.

### Frame

#### **Materials and Tools**

- 65 feet of 1-inch square tubing
- chop saw
- welder
- grinder
- speed square
- tape measure

# **Danger**

Do not touch blade while using chop saw.

## Caution

Wear safety goggles while using chop saw.

- Cut 4 pieces of 1-inch square tubing at 48 inches using the chop saw.
- Cut 4 pieces of 1-inch square tubing at 46 inches using the chop saw.
- Cut 5 pieces of 1-inch square tubing at 70 inches using the chop saw.
- Arrange the pieces to make them look like the picture below.

The 44-inch pieces are aligned inside the 48-inch pieces. Use a speed square to make sure all the angles are 90 degrees.



# **Danger**

Do not look at blue light while welding without a welding mask on.

### Caution

Wear welding gloves and welding mask while welding.

• Weld the pieces together using the welder.

You should now have two, 4-foot by 4-foot squares.

- Use the grinder to grind the welds down to where they are smooth.
- Weld a 70-inch piece at each corner of one of the squares.

These pieces should be standing upright and on top of the square. Use the speed square to make sure the pieces are standing up straight. There should be one 70-inch piece left.

• Weld the other square on top of the 70-inch, upright pieces.

You should now have a 4-foot long by 4-foot wide by 6-foot high frame.

- Use the tape measure to measure in 2 feet along the top of the frame and make a mark.
- Use the tape measure to measure in 2 feet along the bottom of the frame and make a mark.
- Use the tape measure to measure in .5 inches on the top and bottom of the remaining 70-inch piece and make a mark.
- Place the 70-inch piece on the frame to where the marks on the top and bottom of the frame line up with the marks on the top and bottom of the 70-inch piece.

This piece should be in the middle of one of the sides of the frame.

• Weld the 70-inch piece to the frame once it is in place. This side is now the back side of the blind.

The frame of the blind is now finished.







#### Door

#### **Materials and Tools**

■ 1 sheet of 4-foot by 8-foot ply wood

■ 8 feet of 1-inch square tubing

skill saw door handle

■ chop saw hinges

welder tape measure

self-drilling screws grinder

cordless drill speed square

clamps

• Cut 2 pieces of 1-inch square tubing at 69 inches using the chop saw.

• Cut 3 pieces of 1-inch square tubing at 20 inches using the chop saw.

• Arrange the pieces to make them look like the picture below.

The 20-inch pieces are aligned inside the 69-inch pieces. Use a speed square to make sure all the angles are 90 degrees.

• Weld the pieces together using the welder.

You should now have a 69-inch by 22-inch rectangle.



• Use the grinder to grind the welds down to where they are smooth.

This rectangle is the frame for your door.

# Danger

Do not touch blade while using skill saw.

# **Caution**

Wear safety goggles while using skill saw.

- Cut 2 feet off the 4-foot by 8-foot ply wood sheet to where it is 4-foot by 6-foot using the skill saw.
- Cut the 4-foot by 6-foot sheet in half to where there are two, 2-foot by 6-foot pieces using the skill saw.
- Place the door frame on one of the 2-foot by 6-foot ply wood pieces.

Adjust the door frame to where there is 1 inch from the outside edge of the frame to the edge of the wood on the sides and 1.5 inches on the top and bottom.



- Use clamps to attach the wood to the frame.
- Turn the door over and screw the wood to the frame using a cordless drill and self-drilling screws.

You can remove the clamps after you have inserted the screws.

- Measure down 22 inches from the top of the door and screw a hinge to the ply wood. The top of the hinge should be at the 22-inch mark.
- Measure up 22 inches from the bottom of the door and screw a hinge to the play wood. The bottom of the hinge should be at the 22-inch mark.
- Place the door onto the frame of the blind.

The door should be to the right of the 70-inch piece in the middle of the back side of the frame and placed to where the hinges are on the far right side of the frame.

- Screw the hinges to the outside of the 70-inch corner piece once the door is in place.
- Screw a door handle to the outside of the door about 2 feet up from the bottom.



#### Walls

### **Materials and Tools**

- 4 sheets of 4-foot by 8-foot ply wood
- 1 piece of 2-foot by 6-foot ply wood
- skill saw
- cordless drill
- self-drilling screws
- tape measure
  - Cut one sheet of the 4-foot by 8-foot ply wood in half to where there are two, 4-foot by 4-foot pieces using the skill saw.
  - Cut 2 feet off the remaining three sheets of 4-foot by 8-foot ply wood to where there are three, 4-foot by 6-foot pieces using the skill saw.

The top and bottom of the blind will use the 4-foot by 4-foot pieces and the three sides will use the 4-foot by 6-foot pieces. The remaining space on the backside will use the other 2-foot by 6-foot piece.

• Turn the frame of blind upside down to where the bottom is on top.

- Place one of the 4-foot by 4-foot pieces on top, which is actually the bottom.
- Screw the piece to the frame using the cordless drill and the self-drilling screws and turn the frame to where the bottom is back on the bottom side.

You should still have a 2-foot by 6-foot piece left over from building the door.

- Place this 2-foot by 6-foot piece on the remaining space on the back side of the frame. This piece should be on the left side of the 70-inch piece in the middle.
- Screw the piece to the frame using the cordless drill and the self-drilling screws.

Your blind should now have a bottom and a back side. Half of the back side should be the door.





- Place the other 4-foot by 4-foot piece on top of the frame. This will be the roof of your blind.
- Screw the piece to the frame using the cordless drill and the self-drilling screws.

The only open space of the blind should be the two sides and the front side.

The remaining pieces of ply wood should each be 4-foot by 6-foot.

- Place the 3 remaining pieces of ply wood on the 3 remaining sides of the blind.
- Screw the pieces to the frame using the cordless drill and the self-drilling screws.

Your blind should now be fully enclosed.



#### **Windows**

#### **Materials and Tools**

- jig saw
- cordless drill
- 3/8-inch drill bit
- tape measure
  - Measure in 1 foot from the right side and 2 feet from the top and make a dot on the front side and two side walls.
  - Measure in 1 foot from the left side and 2 feet from the top and make a dot on the front side and two side walls.
  - Measure in 1 foot from the right side and 3 feet from the bottom and make a dot on the front side and two side walls.
  - Measure in 1 foot from the left side and 3 feet from the bottom and make a dot on the front side and two side walls.
  - Connect the dots on each wall. You should have a 1-foot by 2-foot rectangle drawn on each wall.

There will not be a window on the back side of the blind because of the door being there.

• Drill a hole in one corner of each of the rectangles using the cordless drill and the 3/8-inch drill bit.

Make sure the hole is just inside of the lines you have drawn. This hole will give you a starting place for cutting.



# **Danger**

Do not touch blade while using jig saw.

# **Caution**

Wear safety goggles while using jig saw.

• Cut each rectangle out using the jig saw.

Three walls of your blind should now have a 1-foot by 2-foot window.

The blind of your deer stand is now finished.



# **Chapter 2- Building the Tower**



# **Chapter 2- Building the Tower**

The tower of your blind will be about 5.5 feet tall. Each leg will be 6-foot long and coming out at an angle of 15 degrees. The platform and legs will be made out of 2-inch square tubing. The ladder will be made out of 1-inch and 2-inch square tubing.

#### **Platform**

#### **Materials and Tools**

- 24 feet of 2-inch square tubing
- chop saw
- welder
- grinder
- speed square
- tape measure
  - Cut 2 pieces of 2 inch square tubing at 48 inches long using the chop saw.
  - Cut 4 pieces of 2 inch square tubing at 44 inches long using the chop saw.
  - Arrange the pieces to make them look like the picture below.

The 44-inch pieces are aligned inside the 48-inch pieces. The 44-inch pieces are 16 inches apart. Use a speed square to make sure all the angles are 90 degrees.



• Weld the pieces together using the welder.

You should now have a 4-foot by 4-foot square with two 44-inch pieces welded in the middle.

• Use the grinder to grind the welds down to where they are smooth.

This is the platform for your tower.

# Legs

#### **Materials and Tools**

- 56 feet of 2-inch square tubing
- chop saw
- welder
- tape measure
  - Cut 4 pieces of 2-inch square tubing at 72 inches using the chop saw.
  - Cut 4 pieces of 2-inch square tubing at 64 inches using the chop saw.
  - Cut one end of each 72-inch piece at a 15 degree angle using the chop saw.

The chop saw can rotate and be set to cut at 15 degrees.

• Weld one leg to each corner of the platform.

The end with the 15 degree angle cut should be the end welded to the platform.



The four 64-inch pieces will be the leg supports.

- Weld one 64-inch piece 2 feet up from the ground to one leg and to the leg beside it.
- Weld the other three 64-inch pieces to the remaining legs.

Each leg should have two supports welded to it 2 feet above the ground. The supports should make a square.

Your tower should now consist of a platform with four legs and supports.





#### Ladder

### **Materials and Tools**

- 11 feet of 2-inch square tubing
- 12 feet of 1-inch square tubing
- 2 feet of 3-inch angle iron
- chop saw
- welder
- speed square
- tape measure
  - Cut 1 piece of 2-inch square tubing at 59 inches using the chop saw.
  - Cut 1 piece of 2-inch square tubing at 72 inches using the chop saw.
  - Cut 6 pieces of 1-inch square tubing at 24 inches using the chop saw.
  - Cut 1 piece of 3-inch angle iron at 6 inches using the chop saw.
  - Cut 1 piece of 3-inch angle iron at 12 inches using the chop saw.

The six, 1-inch square tubing pieces will be used as the steps for the ladder. The angle iron pieces will be used as supports and a connecter.

• Weld the 59-inch piece 6 inches down from the platform to two of the legs.

Make sure you weld it to the outside of the legs.

This piece will be used to hold the ladder. This side is now the back side of the tower.

• Weld one of the 24-inch pieces on top of the 72-inch piece at one end.



Make sure you weld the 24-inch piece to where the 72-inch piece is in the middle of it. This is the bottom step for your ladder.

• Weld the remaining 24-inch pieces to the 72-inch piece.

Space the steps out to where there is 1 foot between each.



• Weld the 6-inch piece of angle iron to the top of the ladder to the 72-inch piece.

This will allow the ladder to hang on the 59-inch piece once the deer stand is stood up.

• Weld the 12-inch piece of angle iron to the bottom of the ladder to the 72-inch piece.

This will provide support for the ladder on the ground.

• Stand the tower up and hang the ladder on the 59-inch piece.





The tower of your deer stand is now finished.



# **Chapter 3- Completing the Deer Stand**



# **Chapter 3-Completing the Deer Stand**

Your deer stand is almost complete and ready for hunting. All you have left to do is assemble the blind to the tower and apply some finishing touches.

# **Assembly**

#### **Materials and Tools**

- cordless drill
- 3/8-inch drill bit
- 4 bolts at 4 inches long
- 4 nuts
- 4washers
- crescent wrench
  - Lay the tower down to where the back side is on top.
  - Lay the blind down to where the back side is on top.
  - Place the tower to where the top of platform is against the bottom of the blind.



You will have to place some cinder blocks or bricks under the blind and tower to have them line up evenly.

• Drill a hole in each side from the bottom of the platform through the frame of the blind using the cordless drill and 3/8-inch drill bit.

Make sure you drill through the platform, ply wood, and blind frame.

- Insert a bolt in each hole. Make sure you insert the bolt from the inside of the blind
- Place a nut and washer on each bolt. Make sure the washer is between the platform and nut
- Tighten the bolt down using a crescent wrench.





# **Finishing Touches**

### **Materials and Tools**

- wood water seal
- paint (optional)
  - Apply wood water seal to the blind.
  - Apply paint to the blind and tower (optional).
  - Stand you deer stand up.

Your deer stand is now finished and ready for hunting.



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