


BROADSTREET BENCH

DIFFICULTY: **MEDIUM**

 2 VOLUNTEERS

 3 HOURS

MATERIALS

PREP

(1) 4x4x10ft board

(2) 4x4x8ft boards

(3) 2x6x8ft boards

(4) 2x6x10ft boards

(1) 2x4x8ft board

BUILD

(3) 4x4x37.25" pieces

(3) 4x4x18" pieces

(6) 4x4x19.75" pieces

(4) 2x6x40" parallelograms

(2) 2x6x26.75" pieces

(8) 2x6x51" pieces

(2) 2x4x18.75" pieces

2lb 2.5" deck screws

1lb N8 Simpson nails

(2) .5"x8" carriage bolts

(4) .5"x6" carriage bolts

(8) corner braces

Tools listed on page 2

PREP LIST

1. Sort all materials into piles by like items to ensure you have materials needed to complete project.
2. Take one of the 4x4x8ft boards. Cut into (4) 19.75" pieces.
3. Take the second 4x4x8ft board. Cut into (2) 19.75" pieces and (3) 18" sections.
4. Take the 4x4x10ft board. Cut into (3) 37.25" pieces.
5. Take (2) of the 2x6x8ft boards. Cut each into (2) 40" pieces, for a total of (4) 2x6x40"pieces.
6. Take the remaining 2x6x8ft board. Cut (2) 26.75" pieces from it.
7. Take the (4) 2x6x10ft boards. Cut (2) 51" pieces from each, for a total of (8) 2x6x51" pieces.
8. Take the 2x4x8ft board. Cut (2) 18.75" pieces from it.
9. Angled Cuts: Take the (4) 2x6x40" pieces cut in step 5. Set the miter saw to 15° and cut the angle off of both ends of each piece, creating (4) 2x4x40" parallelograms.

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TOOLS

PREP

Miter saw
Pencil
Tape measure
Carpenter's square
Safety glasses

BUILD

Drill
.5" long drill bit
Level
Measuring tape
Safety glasses
Pencil
Screwdriver bit


BUILD LIST

1. Sort all materials into piles by like items to ensure you have materials needed to complete project.
2. Take two 4x4x19.75" pieces and secure 4 corner braces to them using the N8 nails. Secure two braces per piece of lumber - both on same side and flush with opposing ends.
3. Secure one of these pieces between a 4x4x37.25" and a 4x4x18" so it's completely flush along their bottom.
4. Secure second piece of lumber with braces to close rectangle. Ensure this piece of lumber is both flush with top of 4x4x18" piece and is level as well. Repeat this step two more times so you will have total of 3 seat supports for one bench.
5. Place 2x6x40" parallelogram so its upper edge is completely flush with upper edge of seat support. Once flush, slide the back support so the inner corners align. If done correctly bottom of 2x6 should naturally flush with 4x4 base at the bottom of the support. Using a screw/nail temporarily tack the 2x6 onto the 4x4.
6. Next, use .5" long drill bit to drill hole through top/bottom of seat support with back supports tacked on. You'll use the 8" long carriage bolts in these holes to secure the entire seat and back support together. Then, remove the screw/nail you used to tack it together in step 6.
7. The remaining two pieces of 2x6 will be secured, in same fashion, to the other two seat supports. Place one 2x6 onto right side and one onto left side of two remaining seat supports. Use 6" long carriage bolts to secure these back supports to the seat supports.

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Safety glasses

BUILD

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BUILD LIST

8. Next, use the (2) 2x4x18 3/4" pieces as spacers between the three seat supports. Measure in 11" from front of each seat support and place your 2x4 spacer so it sits between this mark and the bottom edge of the back support. Using a 2.5" deck screw tack it, at an angle, to the 4x4 seat support. The seat supports with single back supports will be your end pieces. The seat support with a back support on its left side will be placed on the right end of the bench, and the seat support with a back support on its right side will be placed at the left end of the bench.



9. To finish securing all of the supports into one full piece, take a piece of 2x6x51" lumber and secure it to the faces of the 4x4x18" pieces. Ensure that the top edges are all flush, and that there is a 1.5" overhang at both edges of the 2x6.



10. Take two pieces of 2x6x26.75" and secure one to each side of the bench. Their back edges should be flush with side of the 4x4x37.25" and their faces flush with the edges of the 2x6x51" (they should be filling in where you left a 1 1/2" overhang).



11. Take another piece of 2x6x4'3" and secure it onto the back side of the supports so that it is flush and level with the last three pieces of 2x6 you recently secured to the structure.



12. Secure the three 2x6x51" seat slats and three 2x6x51" back slats to the frame.

