

ASP Ramp Drawings

Project Description

Welcome to ramp building! Today, you are going to practice your construction skills and prepare for our upcoming trip.

Here is the construction sequence:

- 1) Review safety & construction drawings
- 2) Measure, mark, then cut 2x6 boards
- 3) Assemble 2x6 ramp frames
- 4) Measure, mark, then cut decking boards
- 5) Square & reinforce the ramp frames
- 6) Lay decking on top of ramp, attach 2-3 pieces only
- 7) Carry completed ramp to storage area

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Version 2.0
8/31/2023



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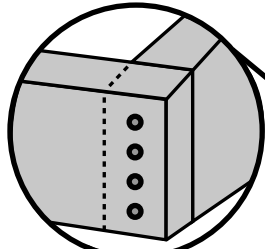
Wheelchair Ramp
Drawings

Review This Checklist Prior to Starting

- ☐ Panel A has (4) Quality Checkpoints, must be confirmed by a build leader
 - ☐ When in doubt, ask for help
 - ☐ Lift with your legs, not with your back
 - ☐ Carrying 60"+ boards is a two person job
 - ☐ Own your 5' safety zone before using tools
- ☐ Check for trip hazards & loose nails after each panel assembly
- ☐ Gloves are good for carrying wood, bad for operating saws or drills
 - ☐ Use spare boards to create a flat hammering surface
 - ☐ Remember to hydrate!



Connect each 2x6 with four
3" decking Screws



Dimensions are shown in **red**.
Note the difference between
end-to-end 60" dimension
and 16" centered dimension

This is a joist hanger:



Attach one to every
T-shaped connection
(10 screws each)

This is a board ID.
Letters will be
either A,B,C,D
(see material list)

X1 - 57"

2" Decking Screw

33-1/2 in

16 in

16 in

This is a corner bracket:



Attach one to every
L-shaped connection
(8 screws each)

Do the math!

$$\begin{array}{r} 16 \times 2 \\ + 0.75 \times 2 \\ \hline 33-1/2" \end{array}$$

Ask your build leader
if this doesn't make
sense.

Decking board
1-1/4" x 6"

2x6 board
1-1/2" x 5-1/2"

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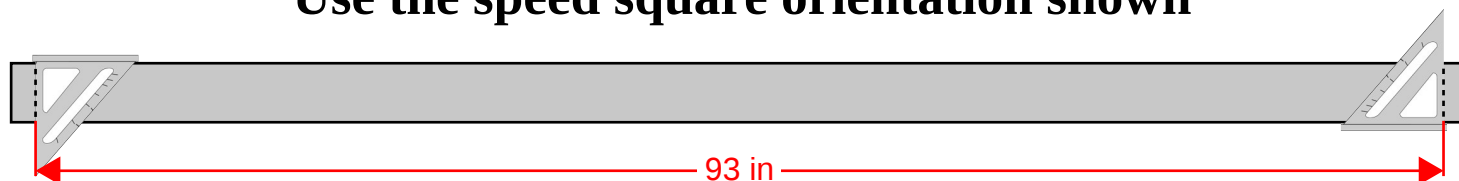
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Symbols &
Abbreviations

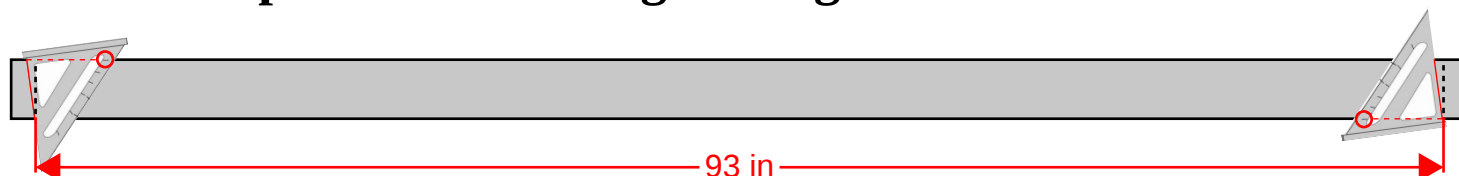
Panel A	Panel B	Panel C	Panel D
<u>You Need</u> (1) A1 @ 46" (3) A2 @ 93" (1) A3 @ 39" (16) A4 @ 39"	<u>You Need</u> (1) B1 @ 46" (3) B2 @ 57" (1) B3 @ 39" (10) B4 @ 39"	<u>You Need</u> (5) C1 @ 93" (2) C2 @ 60" (16) C3 @ 60"	<u>You Need</u> (5) D1 @ 57" (2) D2 @ 60" (10) D3 @ 60"
IMPORTANT: Do not cut 39" and 46" pieces from the same board!			
<u>One 2x6x8' Makes:</u> Two 46" boards (A1,B1) One 93" board (A2,C1)	<u>One 2x6x10' Makes:</u> Three 39" boards (A3,B3) Two 57" boards (B2, D1) Two 60" boards (C2, D2)	<u>10' Decking Makes:</u> Three 39" boards (A4,B4) Two 60" boards (C3,D3)	
Label your pieces, seek to use leftovers over a new board when possible. Use thin decking boards for A4, B4, C3, and D3 only. MAKE SURE YOU HAVE THE RIGHT BOARD <u>BEFORE</u> CUTTING			
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**Step 1: On a 2x6x8', mark two straight lines 93" apart
Leave at least 1" clearance on either side
Use the speed square orientation shown**



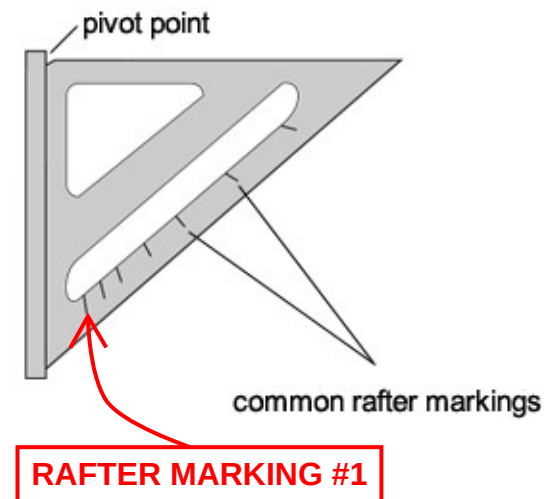
Step 2: Draw the angle using the #1 Rafter Mark



Step 3: Double check the orientation with a Build Leader

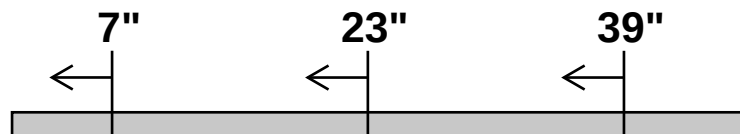


Step 4: Triple check orientation, then make diagonal cuts

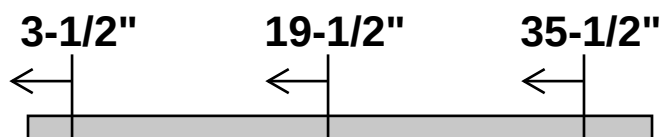


Layout for Panels A & B

A1, B1 @46"

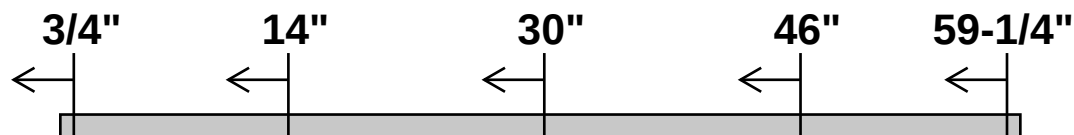


A3, B3 @39"



Layout for Panels C & D

C2, D2 @60"



Instructions

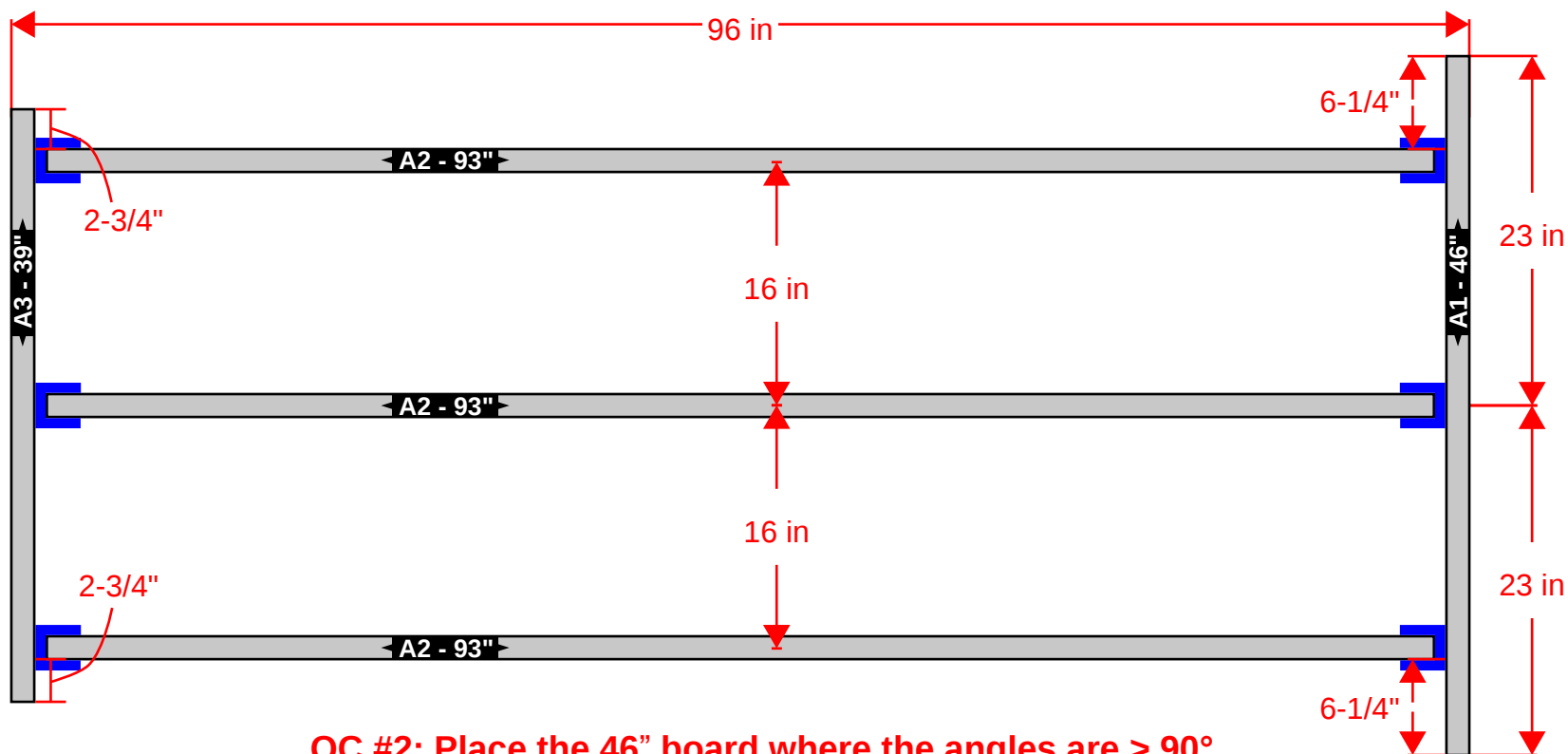
These marked boards will help you assemble your panels correctly.

- 1) Lay your board flat on the ground, double check the length.
- 2) Hook your tape measure on the board's left side.
- 3) Pull the tape across, marking each layout measurement.
- 4) Draw a line across the board, mark four evenly spaced Xs for screws.

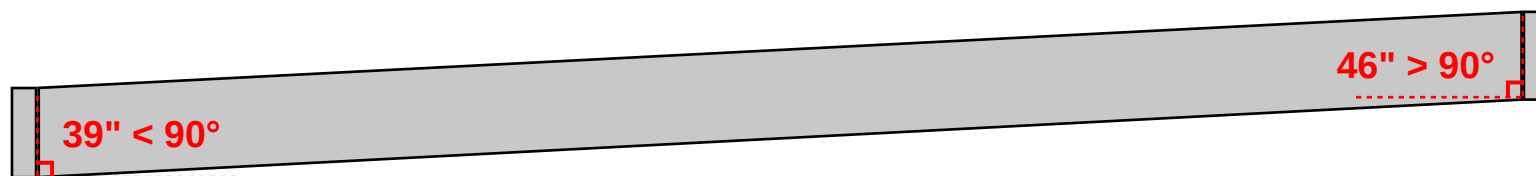
During assembly, line the middle of each board up with the lines you drew.



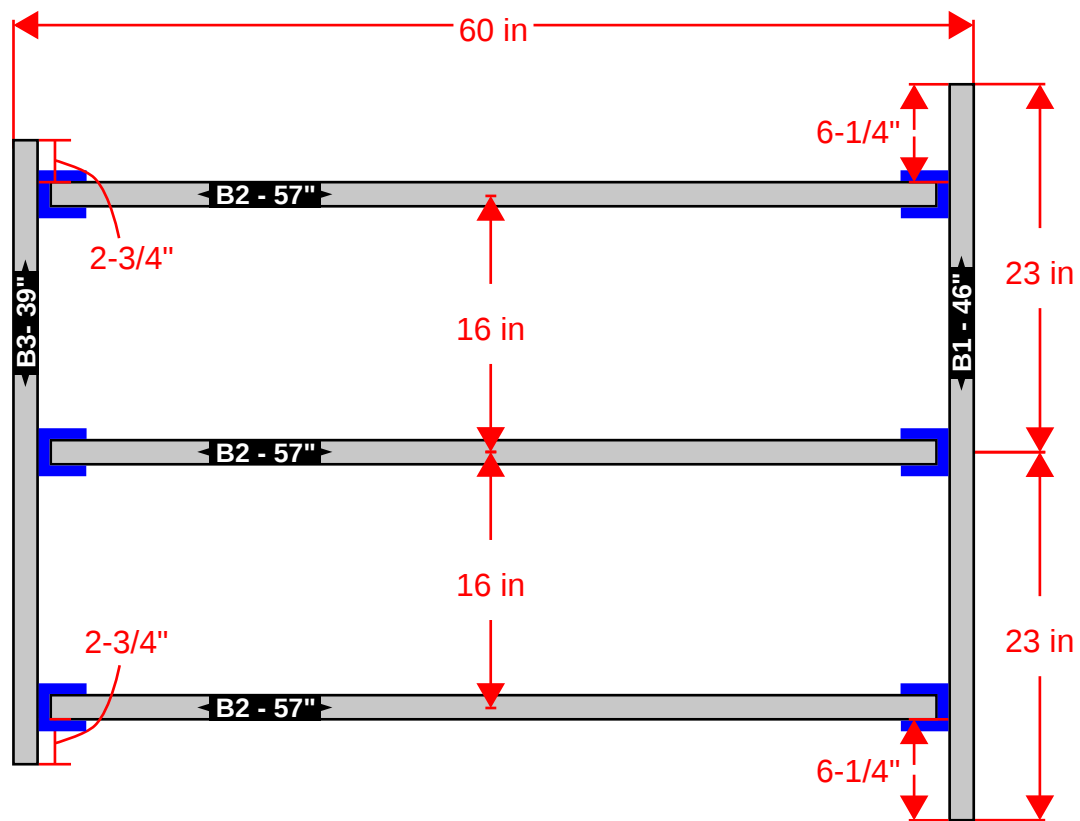
QC #3: See a Build Leader before nailing to review the panel flipping technique

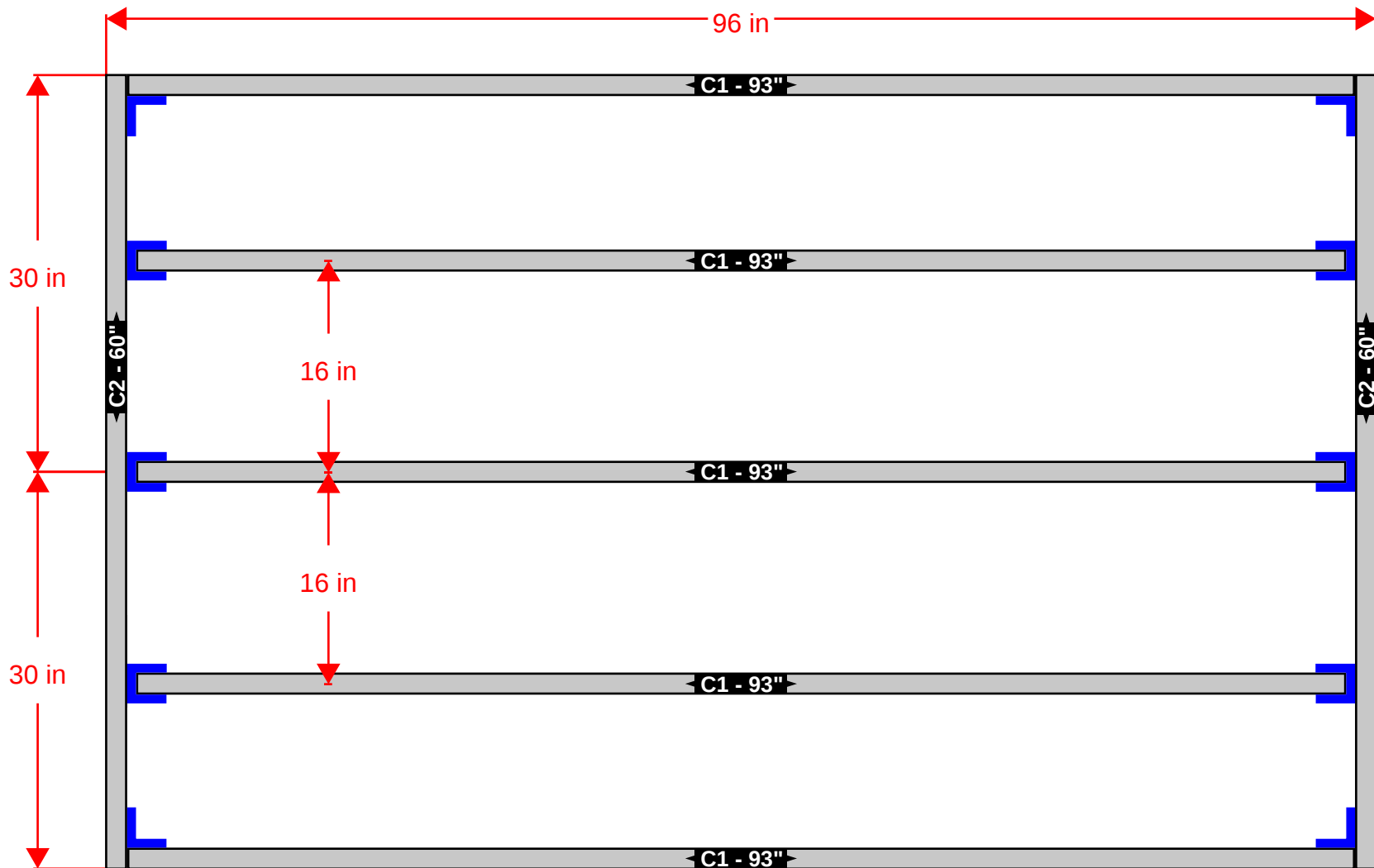


**QC #2: Place the 46" board where the angles are $> 90^\circ$.
Place the 39" board where the angles are $< 90^\circ$.**



**QC #1: Verify A2 cut angle with
Build Leader, see Page 4 for detail**



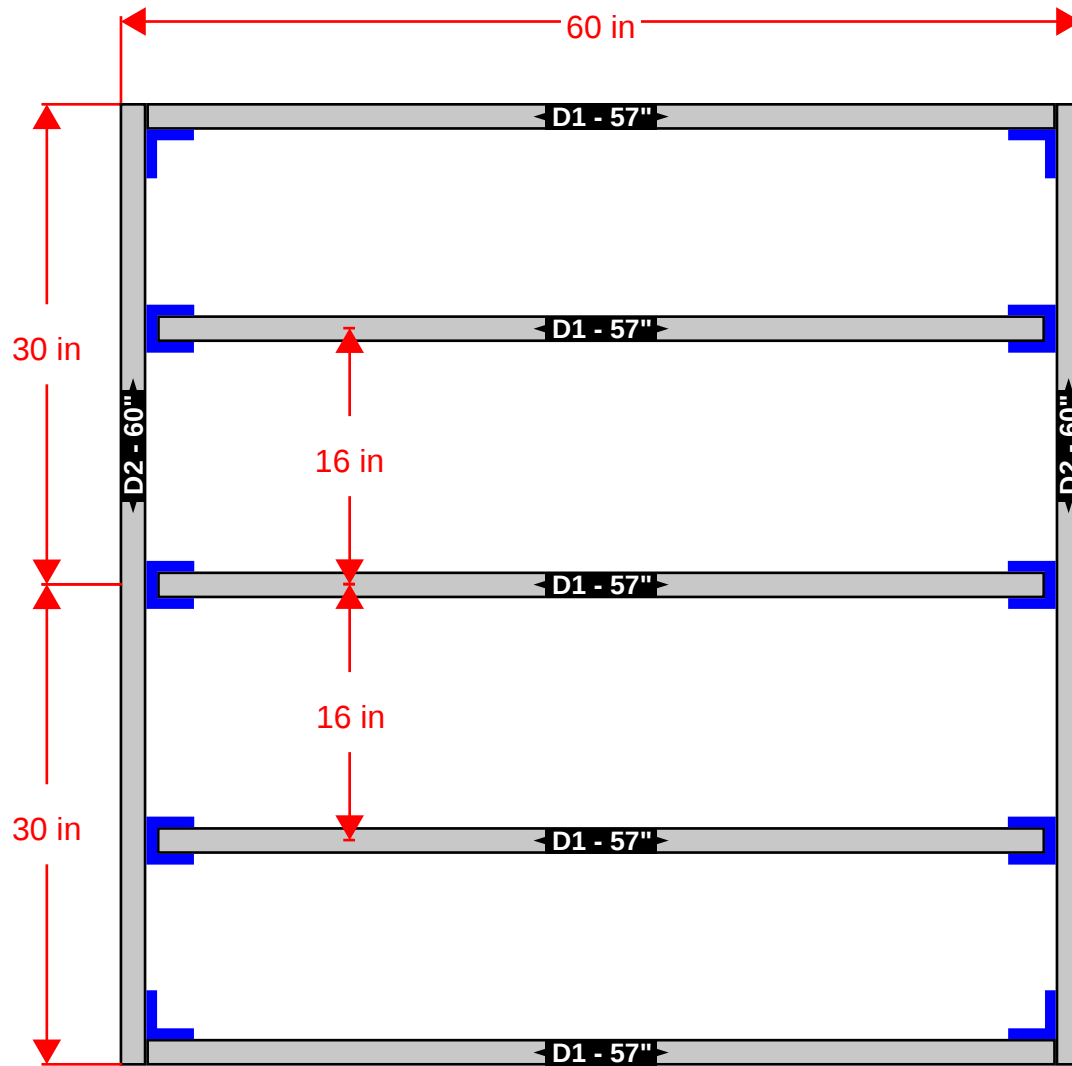


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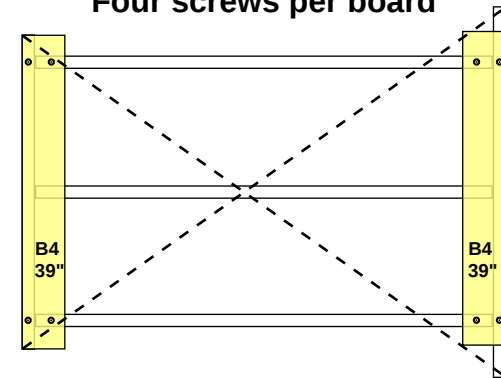
Panel C



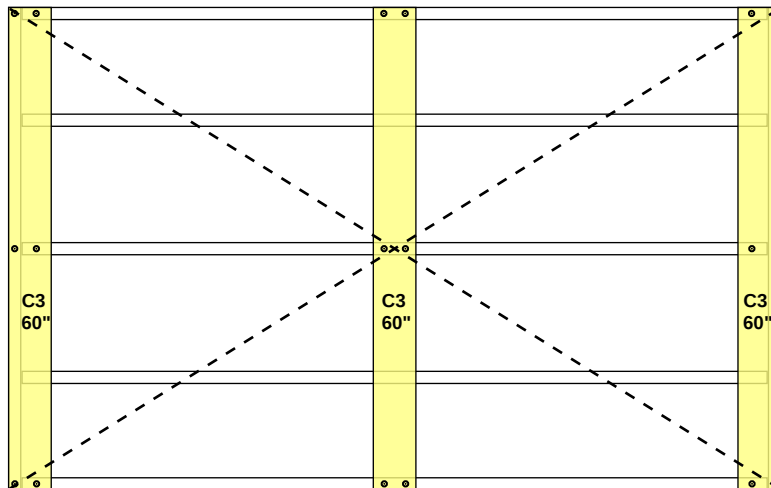
Four screws per board



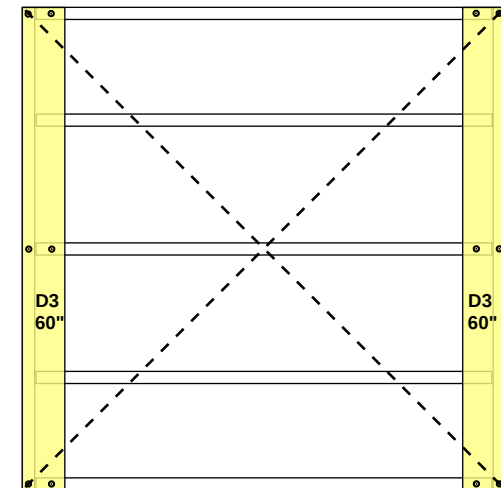
Four screws per board



Six screws per board



Six screws per board



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Panel Squaring & Decking