

Planter Shelves

PROJECT PLAN

YellaWood
Pressure Treated Pine



No space? No problem. Build your garden up.

The ability to grow and display plants is a perk to any outdoor space. Especially for places that are on the small end of the square-footage scale, a planter shelf system offers big impact with a minimal footprint. Vertical positioning of plant life will compliment and brighten up the space.

This project includes a simple and sturdy frame composed of vertical

1x2s, extended top and bottom beams for mounting to an exterior wall (though it can also be propped against a wall), and French-cleat hanging brackets for sliding the planter boxes onto the frame. These are removable and be rearranged as desired.

Tackle this weekend project if you're longing for some more greenery with a stylish framework.

BUILD TIME

8
HRS

DIFFICULTY



COST



Planter Shelves

IMPORTANT REMINDERS

- **Read instructions** to familiarize yourself with the entire process before beginning.
- **Always double check measurements** before making cuts - Great Southern Wood is not responsible for incorrect cuts.
- **Select and use the best faces** of boards on the outside of assemblies
- **Pre-drill** holes before attaching screws. Set $\frac{1}{8}$ " drill bit inside combination countersink bit to appropriate depth for each screw length called for.
- **Wood glue is optional:** if you choose to use it, apply to surfaces before attaching parts, and be sure to wipe up excess with a damp cloth.

Because wood stock can vary, dry-fit sub-assemblies as needed to ensure dependent parts align. Make any adjustments needed to part dimensions before final assembly.

The Cut List is based on the following actual dimensions for board stock:

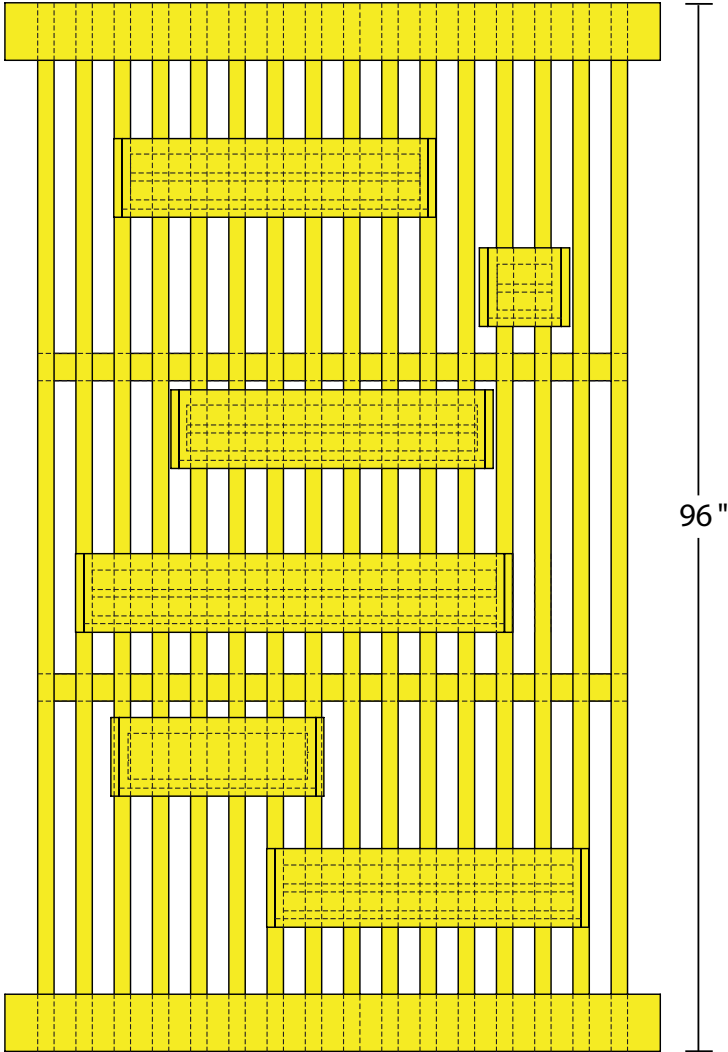
1x6	$\frac{3}{4}$ " x 5 $\frac{1}{2}$ "
1x2	$\frac{3}{4}$ " x 1 $\frac{1}{2}$ "
2x2	1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "
2x4	1 $\frac{3}{8}$ " x 3 $\frac{1}{4}$ "
1x4	$\frac{3}{4}$ " x 3 $\frac{1}{2}$ "
1x8	$\frac{3}{4}$ " x 7 $\frac{1}{4}$ "
2x6	1 $\frac{3}{8}$ " x 5 $\frac{1}{4}$ "
$\frac{5}{4}$ x6	$\frac{7}{8}$ " x 5 $\frac{1}{4}$ "
2x10	1 $\frac{1}{2}$ " x 9 $\frac{1}{8}$ "
4x4	3 $\frac{1}{4}$ " x 3 $\frac{1}{4}$ "

Planter Shelves

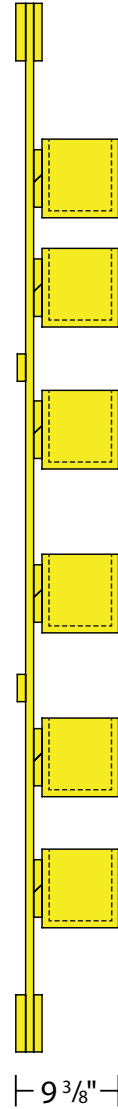
YellaWood
Pressure Treated Pine

OVERALL SIZE

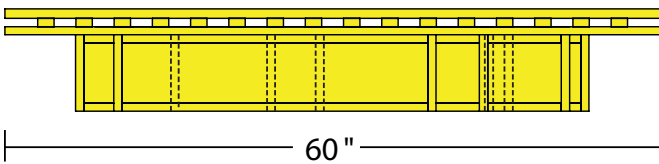
FRONT



SIDE



TOP

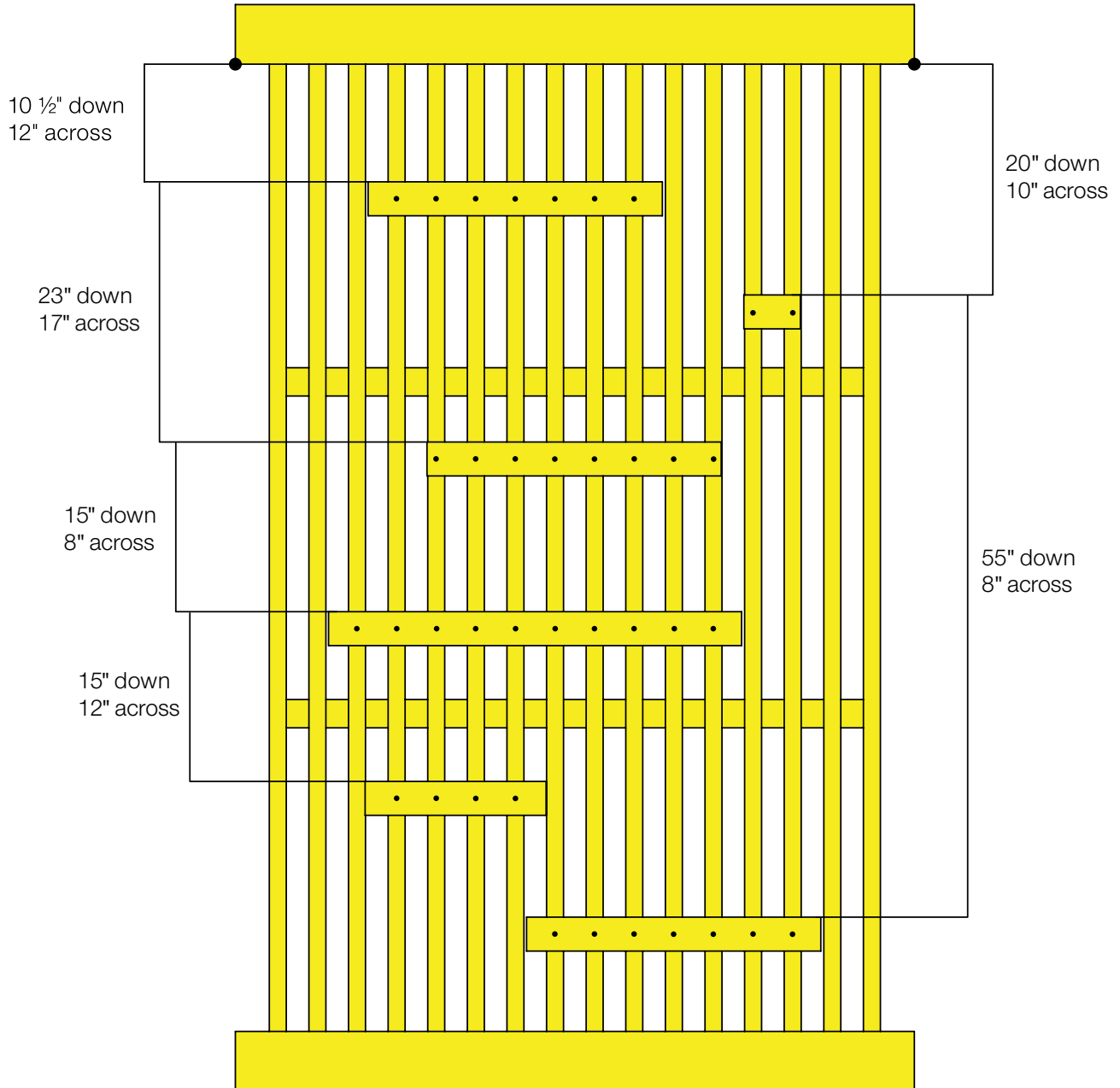


Planter Shelves

OVERALL SIZE

YellaWood
Pressure Treated Pine

FRENCH-CLEAT LAYOUT



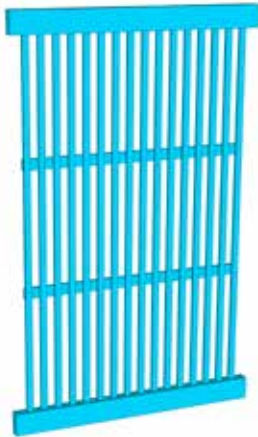
Planter Shelves

YellaWood
Pressure Treated Pine

OVERVIEW OF STEPS

SEQUENCE OF BUILD

1: FRAME



2: FRENCH CLEATS



3: BOXES



4: FINISHING



BUILD TIME

CUTTING

1

HR

+

ASSEMBLY

3

HRS

+

FINISHING

4

HR

=

TOTAL

8

HRS

Planter Shelves

YellaWood®
Pressure Treated Pine

WHAT YOU'LL NEED

MATERIALS

- 16x** 1x2x8' YellaWood® pressure treated pine
- 3x** 1x6x10' YellaWood® pressure treated pine
- 3x** 5/4x6x10' YellaWood® pressure treated pine
- 4x** 1x8x10' YellaWood® pressure treated pine

HARDWARE

1/2 LB BOX

- 1 1/4" wood screws + appropriate bit
- 1 5/8" wood screws + appropriate bit
- 2" wood screws + appropriate bit

SMALL BOX

- 1" nails

WOOD FINISHING

- YellaWood Protector® Stain & Sealer

SAFETY EQUIPMENT

- Work gloves
- Dust mask
- Safety glasses
- Ear protection

Notes:

Consider using YellaWood® KDAT and higher grade products to achieve more professional results.

Choose boards with minimal irregularity to get the most out of the stock. Page 6 shows maximum parts per board. If unsure about board quality, purchase 1 extra piece of each board type.

If you'd like to construct the HACK version of this plan, skip ahead to Page 16.

TOOLS



Pencil



Measuring tape



Miter saw (or chop saw)



Table saw



Drill / driver



Clamps



Square



Combination countersink bit (with 2" long 1/8" bit)



Nail gun (and compressor)



Radial sander (or sanding block)



Damp cloth (optional)



Waterproof wood glue (optional)



Paint/Stain Brush

Planter Shelves

CROSS-CUT DIAGRAMS

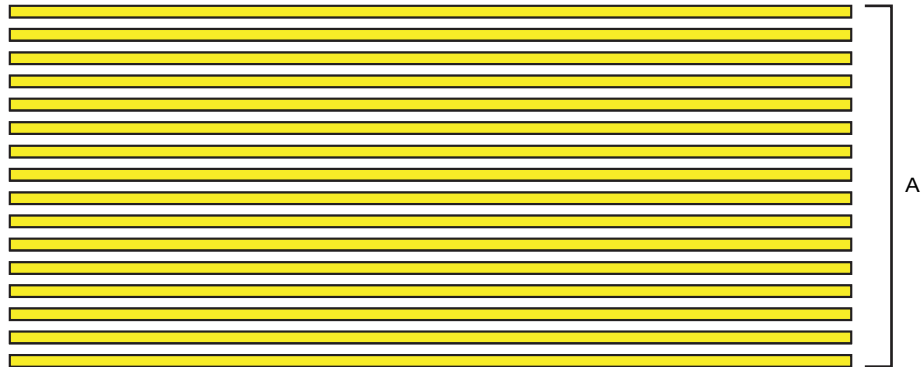
PREP: CROSS-CUT ALL PARTS

Proceed to cut all parts listed below unless noted otherwise. Be sure to **label all parts** so you know which ones to use for the Assembly Steps that follow.

1x2x8' STOCK 16 BOARDS

STOCK LENGTH	PART	#
96"	A	16x

Note: There is no cross-cutting for Parts (A) as they are stock length. The edges will be hidden, but if you'd like to trim the edges, you can take 1/8" off each end. If not, proceed to the cross-cutting below.



5/4x6x10' STOCK 3 BOARDS



CROSS-CUT TO	PART	#
60"	B	4x
54"	C	2x



Planter Shelves

CROSS-CUT DIAGRAMS

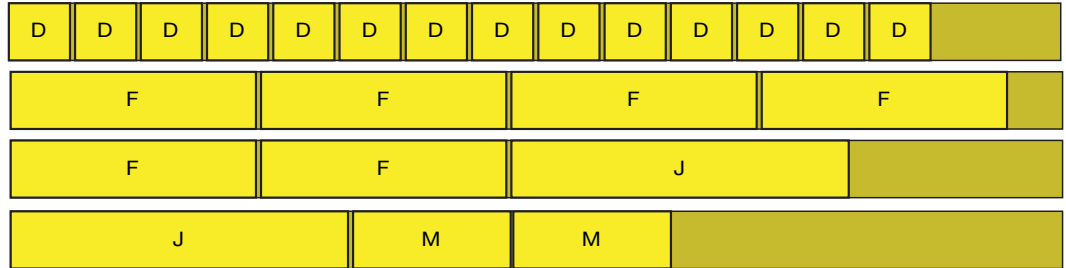
PREP: CROSS-CUT ALL PARTS

Proceed to cut all parts listed below unless noted otherwise. Be sure to **label all parts** so you know which ones to use for the Assembly Steps that follow.



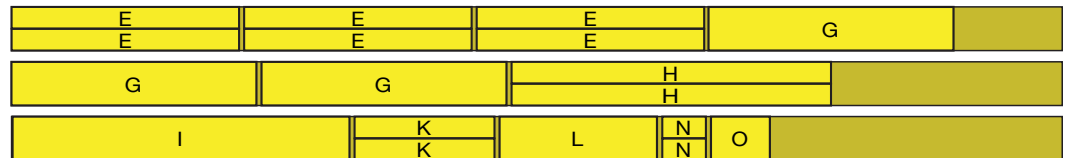
CROSS-CUT TO	PART	#
7"	D	14x
28"	F	6x
38 1/2"	J	2x
18"	M	2x

1x8x10' STOCK 4 BOARDS



CROSS-CUT TO	PART	#
26"	E	6x
28"	G	3x
36 1/2"	H	2x
38 1/2"	I	1x
16"	K	2x
18"	L	1x
5"	N	2x
6 3/4"	O	1x

1x6x10' STOCK 3 BOARDS



Planter Shelves

YellaWood
Pressure Treated Pine

DETAIL CUT DIAGRAMS

PREP:
RIP-CUT ALL PARTS

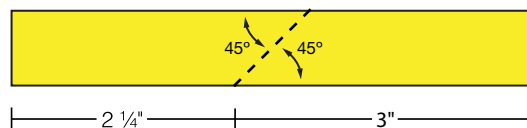
Proceed to cut all parts listed above unless noted otherwise. Be sure to **label all parts** so you know which ones to use for the Assembly Steps that follow.



C - DETAIL (SIDE)



FRENCH CLEAT DETAIL (SIDE)



Planter Shelves

ASSEMBLY

YellaWood
Pressure Treated Pine

SECTION 1: FRAME

TOOLS



Clamps



Pencil



Drill / driver



Nail gun
(and compressor)



Combination
countersink bit
(with 2" long 1/8" bit)



Square



Measuring
tape

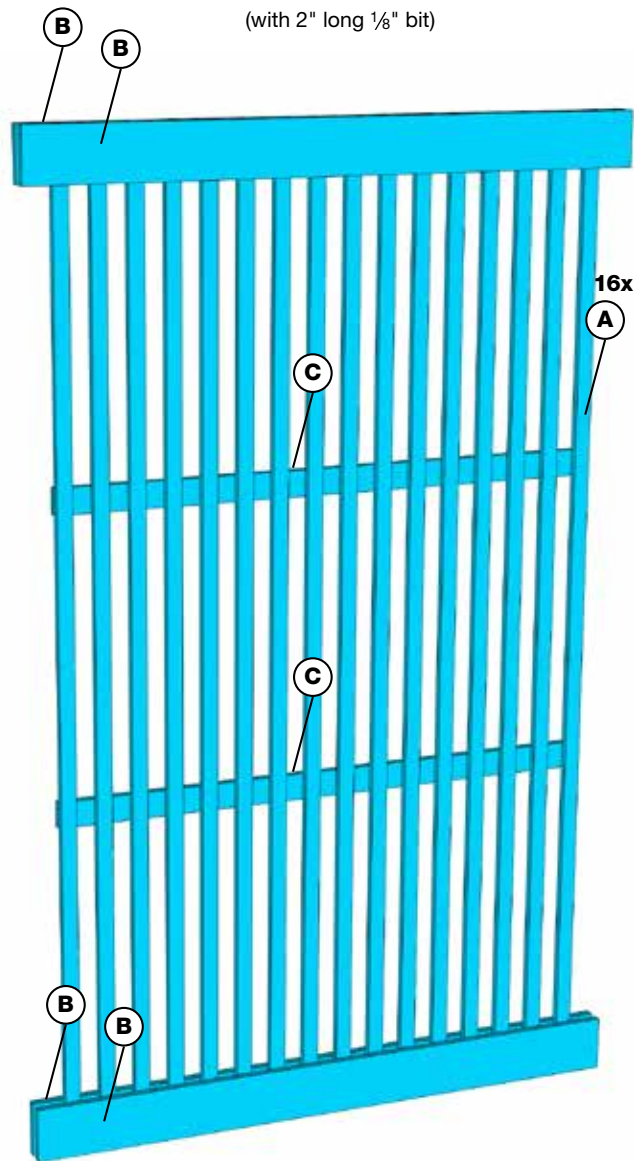
SUPPLIES



1 1/4" screws

2" screws

1" nails



Planter Shelves

ASSEMBLY

SECTION 1: FRAME

1



Begin by laying out two Parts (B) and one Part (A). Use a layout table long enough to support the frame. Measure 3" in from the edge of Part (B) and hold in place. Place best faces down.

2



Use a nail gun loaded with 1" nails and pin in place with one nail in the middle of Part (A). Note that you are working on the back of the frame; its front will be viewed once flipped.

3



Attach the other end of the frame in the same way. Then, using a 2" spacer from a 2x4, continue to fill in the slats in between.

4



Attach the last piece so that one side of the frame is pinned in place.

5



Repeat these steps on the other ends of Parts (A).

6



Place a Part (B) on top of Parts (A) and ensure its edges are flush with its twin piece below. Clamp in place and mark a line 1" from both long edges to aid in the future step of screwing.

7



Make two vertical marks per 2x2 along the horizontal line.

8



Secure the ends of the frame with two 2" screws, working your way down the line. Repeat on the other end.

9



Place two Parts (C) roughly equidistant from each other and the ends, clamp and secure with two 1 1/4" screws per 2x2 joint.

Planter Shelves

ASSEMBLY

YellaWood
Pressure Treated Pine

SECTION 2: FRENCH CLEATS

TOOLS



Drill / driver



Square



Measuring
tape



Combination
countersink bit

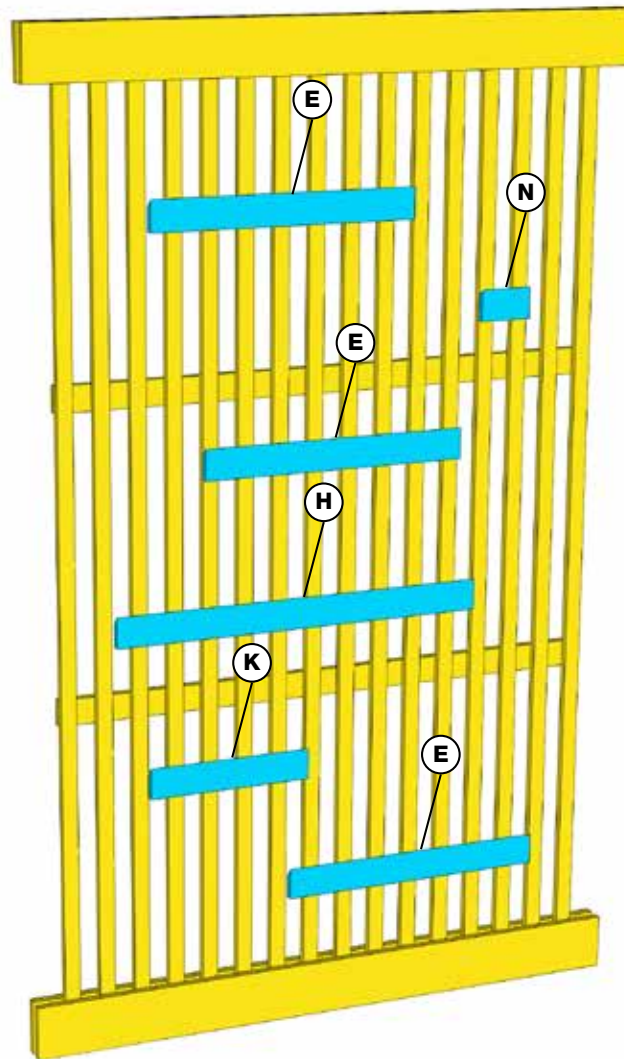


Pencil

SUPPLIES



1 1/4" screws



Planter Shelves

ASSEMBLY

YellaWood
Pressure Treated Pine

SECTION 2: FRENCH CLEATS

10



Flip the assembly over. Lay out the French Cleats so that the 45-degree angle faces toward the 2x2s and is upright. Place the cleats using the diagram on Page 3, or use a layout of your own.

11



Secure each cleat with one 1 1/4" screw per joint. If you live in a particularly rainy region, place 2 screws per 2x2 joint.

12



Continue securing until all French cleats are in place.

Planter Shelves

ASSEMBLY

YellaWood
Pressure Treated Pine

SECTION 3: BOXES

TOOLS



Drill / driver



Measuring
tape



Pencil



Clamps

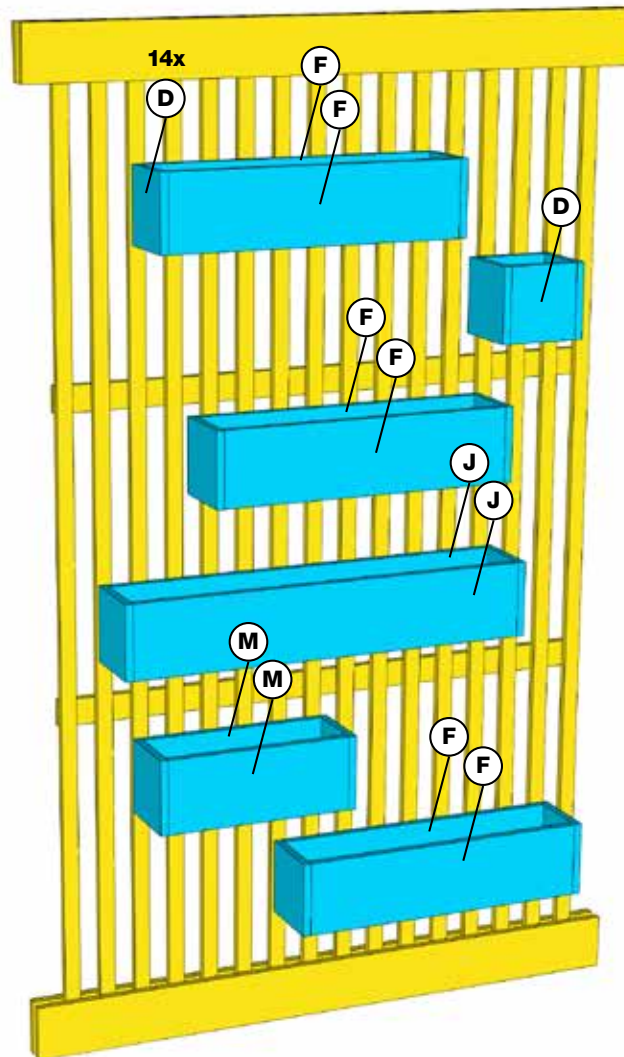


Square

SUPPLIES



1 5/8" screws



Planter Shelves

ASSEMBLY

YellaWood
Pressure Treated Pine

SECTION 3: BOXES

13



Build each box by clamping three sides (2 walls and one bottom) together and using two to three 1 5/8" screws per edge.

14



Add the fourth and fifth wall to complete the box.

15



Finally, add the corresponding French cleat to the back of the box 1" from the top, with the 45-degree facing down and toward the box. Repeat Steps 13-14 until all boxes are completed. Hang boxes on Planter Shelves.

Planter Shelves

FINISHING

YellaWood®
Pressure Treated Pine

SECTION 4: FINISHING

TOOLS



Radial sander
(or sanding block)



Paint/Stain
Brush

SUPPLIES



YellaWood
Protector®
Stain & Sealer



YellaWood® brand products provide the best available pressure treated lumber protection against rot, fungal decay and termites. Sanding edges is recommended to reduce snags and splintering.

16



Ease any sharp edges using a radial sander or sanding block with medium grit. Apply preferred finish to the wood.

17



Lean the structure on a wall or attach using Parts (B) as a mounting plate, and place boxes on the french-cleat mounts. Application of a water repellent or stain will help protect your project.

18



We recommend long lasting YellaWood Protector® semi-transparent stain and water repellent wood sealer, the only stain backed by the famous Yella Tag. Follow manufacturer's recommendations for application.

CONGRATULATIONS. ENJOY YOUR NEW PLANTER SHELVES!

Planter Shelves

GALLERY OF IMAGES

YellaWood
Pressure Treated Pine



Planter Shelves // Hack

PROJECT PLAN

YellaWood
Pressure Treated Pine



Lose the watering can. Add an easy-to-install irrigation system.

To amplify your Planter Shelves, consider adding an automatic watering system to the project.

We recommend purchasing a kit that contains all the pieces you will need to successfully irrigate your planter boxes. Simply hook up the regulator to your hose

connection, feed the tube along a back spine of the Planter Shelves, and make the connections and smaller sections of tubing needed to give each box a bit of water.

You can set the amount and duration of watering needs from the regulator.

BUILD TIME



DIFFICULTY



COST

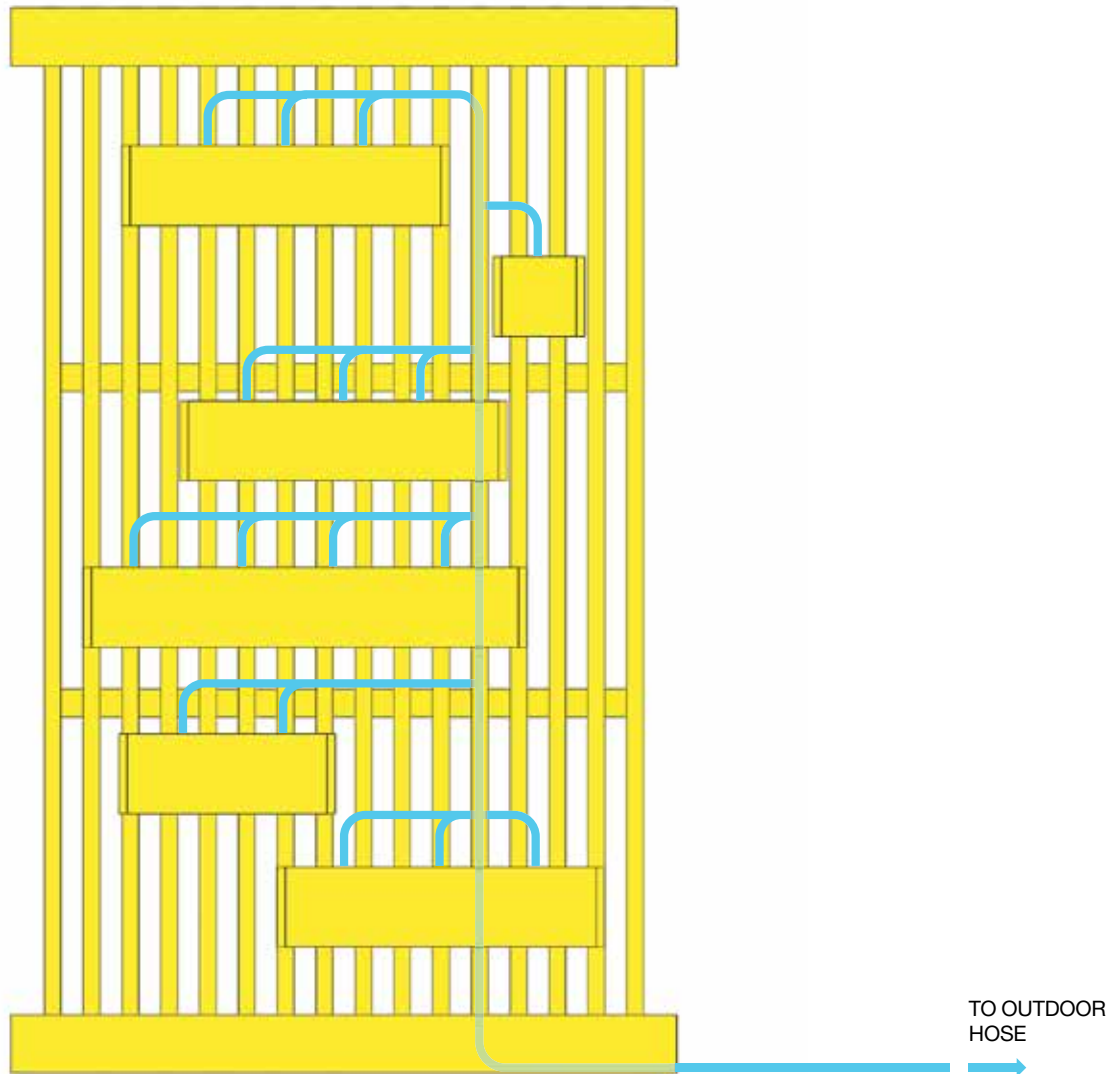


Planter Shelves // Hack

YellaWood
Pressure Treated Pine

OVERVIEW OF STEPS

INSTALLATION



BUILD TIME

ASSEMBLY

IN JUST

1

HR

2

STEPS

Planter Shelves // Hack

YellaWood
Pressure Treated Pine

WHAT YOU'LL NEED

SUPPLIES

- 1x** Automatic Drip Irrigation system with at least 75' of pre-assembled hose length, 20 stakes, and 10 nails and clamps for securing the hose to the back of the Planter Shelves

OTHER

- Soil, hand shovel, desired plants, hose connection hook-up close-by
- Snips for cutting hose to length

TOOLS



Pencil



Measuring
tape



Hammer

SAFETY EQUIPMENT

- Garden gloves
 - Safety glasses
-

Planter Shelves // Hack

YellaWood
Pressure Treated Pine

ASSEMBLY

INSTRUCTIONS FOR ALL SECTIONS

1



Follow manufacturer's instructions for installing the stakes + drip nozzles to each box. We recommend 1 drip for the smallest box, 2 for the medium, 3 for the large, and 4 for the extra large box.

2



Hammer the nail and clamps to the back of the Planter Shelves along a central spine to hold the vertical hose in place. Add the soil and plants of your choice and set the desired watering amount on your regulator.

CONGRATULATIONS. ENJOY YOUR NEW UPGRADED PLANTER SHELVES!

Planter Shelves // Hack

GALLERY OF IMAGES

YellaWood
Pressure Treated Pine



Planter Shelves

FASTENER & HARDWARE INFORMATION



FOR INTERIOR OR EXTERIOR APPLICATIONS

Use fasteners and hardware that are in compliance with the manufacturer's recommendations and the building codes for their intended use. As with any good design and construction practices, treated wood should not be used in applications where trapped moisture or water can occur. Where design and/or actual conditions allow for constant, repetitive or long periods of wet conditions, only stainless steel fasteners should be used.

FOR EXTERIOR APPLICATIONS

The following minimum galvanization levels may be used for connectors, joist hangers, fasteners and other hardware that are placed in direct contact with exterior applications of micronized copper treated wood:

- **Fasteners** – nails, screws, etc. ASTM – A 153 (1 oz/ft²)
- **Hardware** – connectors, joist hangers, etc. ASTM – A 653 G90 (0.90 oz/ft²)

The effects of other building materials within a given assembly, along with environmental factors, should also be considered when selecting the appropriate hardware and fasteners to use for a given project containing treated wood.

Stainless Steel fasteners and hardware are required for Permanent Wood Foundations below grade and are recommended for use with treated wood in other severe exterior applications such as swimming pools, salt water exposure, etc. Type 304 and 316 are recommended grades to use.

ALUMINUM

Aluminum building products may be placed in direct contact with YellaWood® brand products used for interior uses and above ground exterior applications such as decks, fencing, and landscaping projects. Examples of aluminum products include siding, roofing, gutters, door and window trim, flashing, nails, fasteners and other hardware connectors. However, direct contact of treated products and aluminum building products should be limited to code-compliant construction applications that provide proper water drainage and do not allow the wood to be exposed to standing water or water immersion.

We recommend you contact the aluminum building products manufacturer for its recommendations regarding use of its aluminum products in contact with treated wood in ground contact applications or when exposed to salt water, brackish water, or chlorinated water, such as swimming pools or hot tubs.

Also check with the aluminum building products manufacturer regarding compatibility with other chemicals and cleaning agents and the use of their aluminum products in commercial, industrial, and specialty applications such as boat construction.

YellaWood® brand pressure treated products are treated with preservatives (the "Preservatives") and preservative methods and technologies of unrelated third parties. For details regarding the Preservatives, methods, and technologies used by Great Southern Wood Preserving, Incorporated, see www.yellowood.com/preservative or write us at P.O. Box 610, Abbeville, AL 36310. Ask dealer for warranty details. For warranty or for important handling and other information concerning our products including the appropriate Safety Data Sheet (SDS), please visit us at www.yellowood.com/warranties or write us at P.O. Box 610, Abbeville, AL 36310. YellaWood®, YellaWood Protector® and the yellow tag are federally registered trademarks of Great Southern Wood Preserving, Incorporated.

Great Southern Wood Preserving, Incorporated makes no warranties expressed or implied as to the fitness for a particular purpose of this plan.

Planter Shelves

IMPORTANT INFORMATION



- Consult the end tag to determine which preservative or preservative system was used in the treatment of that particular product. YellaWood® brand products may be used in direct contact with aluminum building products when limited to code-compliant construction applications that provide proper water drainage and do not allow the wood to be exposed to standing water or water immersion.
- Use fasteners and other hardware that are in compliance with building codes for the intended use.
- Do not burn preserved wood.
- Wear a dust mask and goggles when cutting or sanding wood.
- Wear gloves when working with wood.
- Some preservative may migrate from the treated wood into soil/water or may dislodge from the treated wood surface upon contact with skin.
- Wash exposed skin areas thoroughly.
- All sawdust and construction debris should be cleaned up and disposed of after construction.
- Wash work clothes separately from other household clothing before reuse.
- Preserved wood should not be used where it may come into direct or indirect contact with drinking water, except for uses involving incidental contact such as fresh water docks and bridges.
- Do not use preserved wood under circumstances when the preservative may become a component of food, animal feed or beehives.
- Do not use preserved wood as mulch.
- Only preserved wood that is visibly clean and free of surface residue should be used. If the wood is to be used in an interior application and becomes wet during construction, it should be allowed to dry before being covered or enclosed.
- Mold growth can and does occur on the surface of many products, including untreated and treated wood, during prolonged surface exposure to excessive moisture conditions. To remove mold from the treated wood surface, wood should be allowed to dry. Typically, mild soap and water can be used to remove remaining surface mold. For more information visit www.epa.gov.
- Projects should be designed and installed in accordance with federal, state and local building codes and ordinances governing construction in your area, and in accordance with the National Design Specifications (NDS) and the Wood Handbook.

DISPOSAL RECOMMENDATIONS

Preserved wood may be disposed of in landfills or burned in commercial or industrial incinerators or boilers in accordance with federal, state and local regulations.