

Deluxe Cooler

PROJECT PLAN

YellaWood
Pressure Treated Pine



Keeps drinks as cool as it looks.

This project creates the perfect home for storing a cooler and other accessories to make those outdoor gatherings happen a little more frequently.

The cooler can accommodate up to a 48-quart cooler and features shelving next to the cooler for storing other essentials. There is a towel rack plus a wine rack inside the right door for easy storage of bottles. The doors call for magnetic closures to protect the contents, and you can slide in the cooler from the front which is ergonomically preferred to dropping in a heavy cooler from above.

Crediting its simple construction and clean lines, this project will enhance any outdoor space and provide fun and function.

After the main structure is assembled, the interior storage is constructed, followed by attaching cladding and creating the lid. Once it has been sanded and coated, it will be ready to be loaded up with a cooler and tools.

Note: Cooler not included.

BUILD TIME

6
HRS

DIFFICULTY



COST



Deluxe Cooler

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.

Check BuildYella.com for updates to plans and to view the video of this project.

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 KDAT board stock:

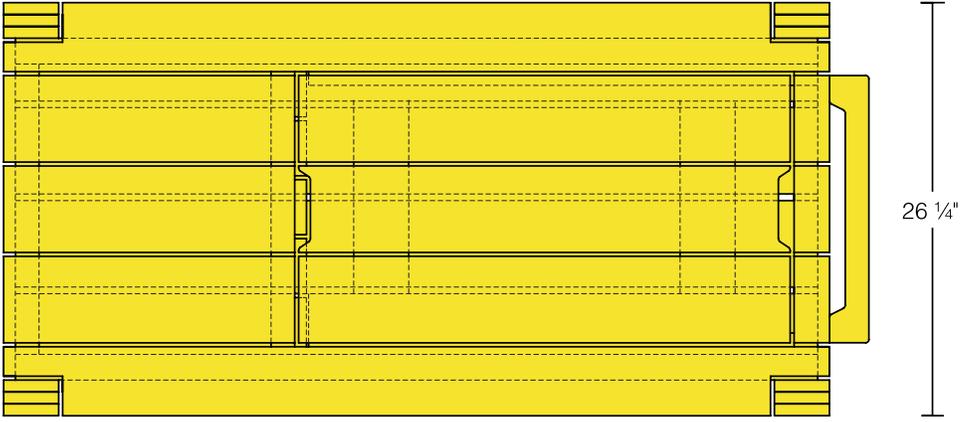
1x2	$\frac{3}{4}$ " x $1 \frac{1}{2}$ "
1x4	$\frac{3}{4}$ " x $3 \frac{1}{2}$ "
1x6	$\frac{3}{4}$ " x $5 \frac{1}{2}$ "
1x8	$\frac{3}{4}$ " x $7 \frac{1}{4}$ "
$\frac{5}{4}$x6	$\frac{7}{8}$ " x $5 \frac{1}{4}$ "
2x2	$1 \frac{1}{2}$ " x $1 \frac{1}{2}$ "
2x4	$1 \frac{3}{8}$ " x $3 \frac{1}{4}$ "
2x6	$1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

Deluxe Cooler

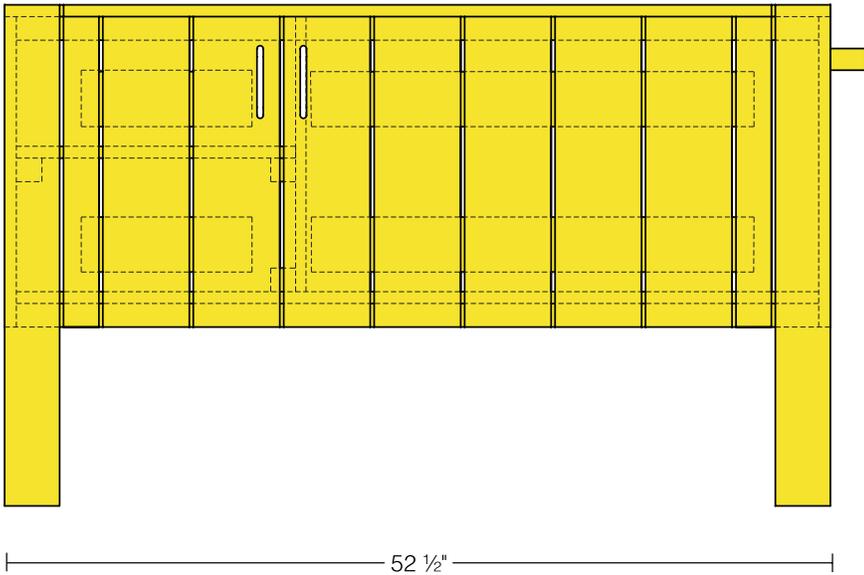
OVERALL SIZE

YellaWood
Pressure Treated Pine

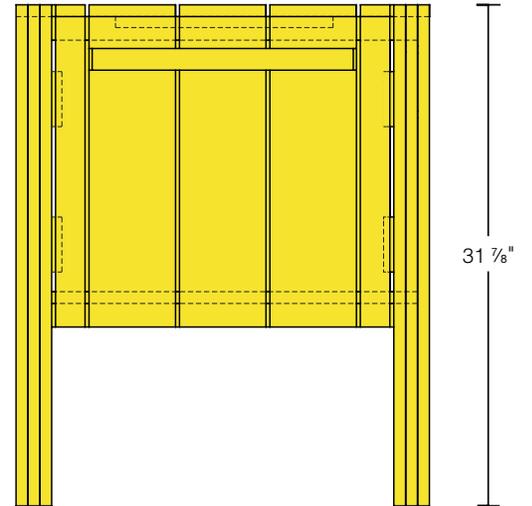
TOP



FRONT



SIDE



Note: Diagrams not to scale.

Deluxe Cooler

OVERVIEW OF STEPS

YellaWood
Pressure Treated Pine

SEQUENCE OF BUILD

1: FRAME



2: EXTERIOR & SHELVING



3: TOP & DOORS



4: FINISHING



BUILD TIME

CUTTING

2
HRS

+

ASSEMBLY

3
HRS

+

FINISHING

1
HR

=

TOTAL

6
HRS

Deluxe Cooler

WHAT YOU'LL NEED

YellaWood®
Pressure Treated Pine

MATERIALS

- 8x** 1x4x8' YellaWood® brand pressure treated pine
- 5x** 2x2x10' YellaWood® brand pressure treated pine
- 11x** 1x6x10' YellaWood® brand pressure treated pine
- 1x** 2x4x10' YellaWood® brand pressure treated pine

HARDWARE

½ LB BOX

- 1 ¼" wood screws + appropriate bit
- 1 ⅝" wood screws + appropriate bit
- 2" wood screws + appropriate bit
- 2 ½" wood screws + appropriate bit
- 3" wood screws + appropriate bit

1 BOX

- 1" nails

OTHER

- 4x** 3" hinges (galvanized if possible)
- 2x** 4" handles (stainless steel if possible)
- 2x** Cabinetry/door magnetic closures

WOOD FINISHING

- YellaWood Protector® Stain & Sealer

SAFETY EQUIPMENT

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

Notes:

Consider using YellaWood® brand 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 and add this material list to your purchase list.

TOOLS



Pencil



Measuring tape



Miter saw
(or chop saw)



Table saw



Jig saw



Drill / driver



Clamps
(two at least 5' long)



Combination
countersink bit
(with 3" long ⅛" bit)



Nail
gun



1" Forstner bit



Carpenter
square



Damp cloth



Waterproof
wood glue



Level



Radial sander
(or sanding block)



Paint/Stain
Brush

Deluxe Cooler

CROSS-CUT DIAGRAMS

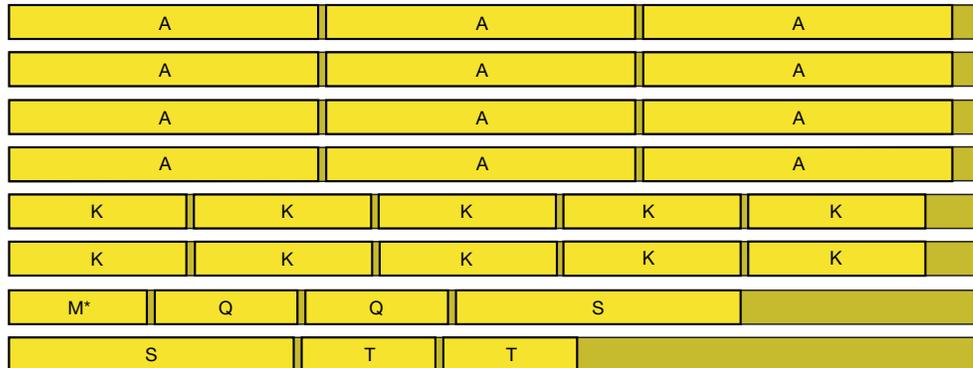
PREP: CROSS-CUT ALL PARTS

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.



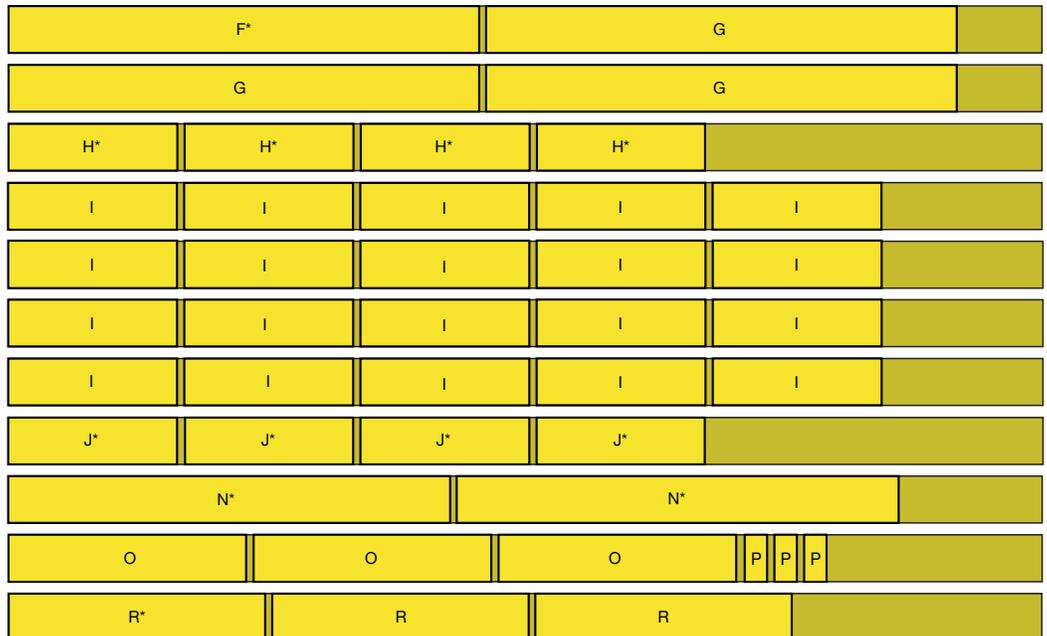
CROSS-CUT TO	PART	#
31 7/8"	A	12x
17 1/2"	K	10x
13"	M*	1x
14"	Q	2x
28 1/2"	S	2x
12"	T	2x

1x4x8' STOCK 8 BOARDS



CROSS-CUT TO	PART	#
51"	F*	1x
51"	G	3x
19 3/4"	H*	4x
19 3/4"	I	20x
19 3/4"	J*	4x
52 1/2"	N*	2x
18 1/2"	O	3x
2 1/4"	P	3x
31 1/4"	R*	3x

1x6x10' STOCK 11 BOARDS



Note: Diagrams not to scale.

Deluxe Cooler

DETAIL CUT DIAGRAMS

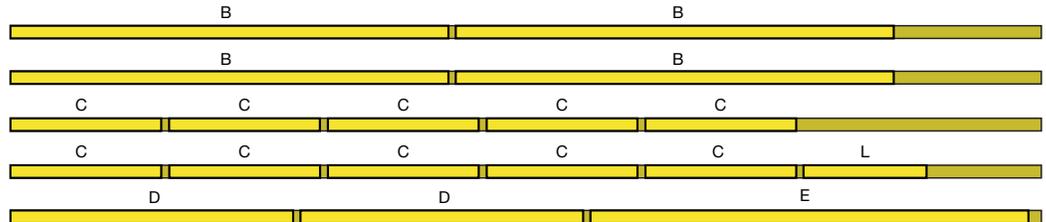
PREP: CROSS-CUT ALL PARTS

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	#
51"	B	4x
18 3/4"	C	10x
30 3/4"	D	2x
45"	E	1x
13"	L	1x

2x2x10' STOCK 5 BOARDS



CROSS-CUT TO	PART	#
16 3/4"	U*	1x
16 3/4"	(V)	4x

2x4x10' STOCK 1 BOARD



Note: Parts (V) are used to hold up a frame assembly and are not permanently used in the project.

PREP: DETAIL CUTS: RIP CUT & HOLE-SAW CUTS



RIP CUT

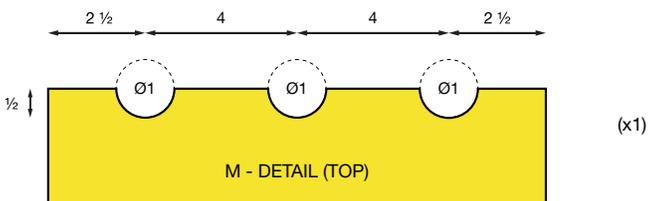
H - DETAIL (TOP)



J - DETAIL (TOP)



DRILL



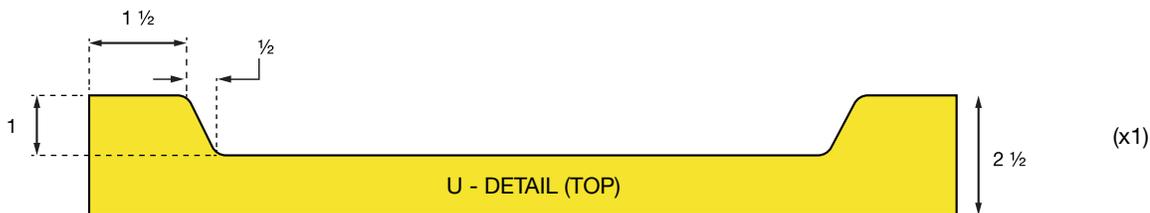
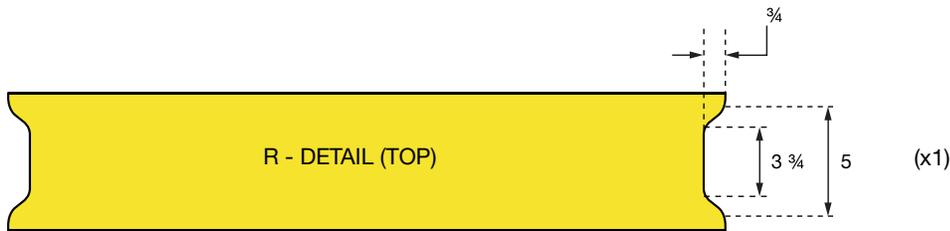
Note: Diagrams not to scale.

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DETAIL CUT DIAGRAMS

PREP:
DETAIL CUTS: JIG-SAW

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.



Deluxe Cooler

ASSEMBLY

SECTION 1: FRAME

TOOLS



Drill / driver



Pencil



Measuring tape



Clamps



Combination countersink bit
(with 3" long 1/8" bit)



Carpenter square

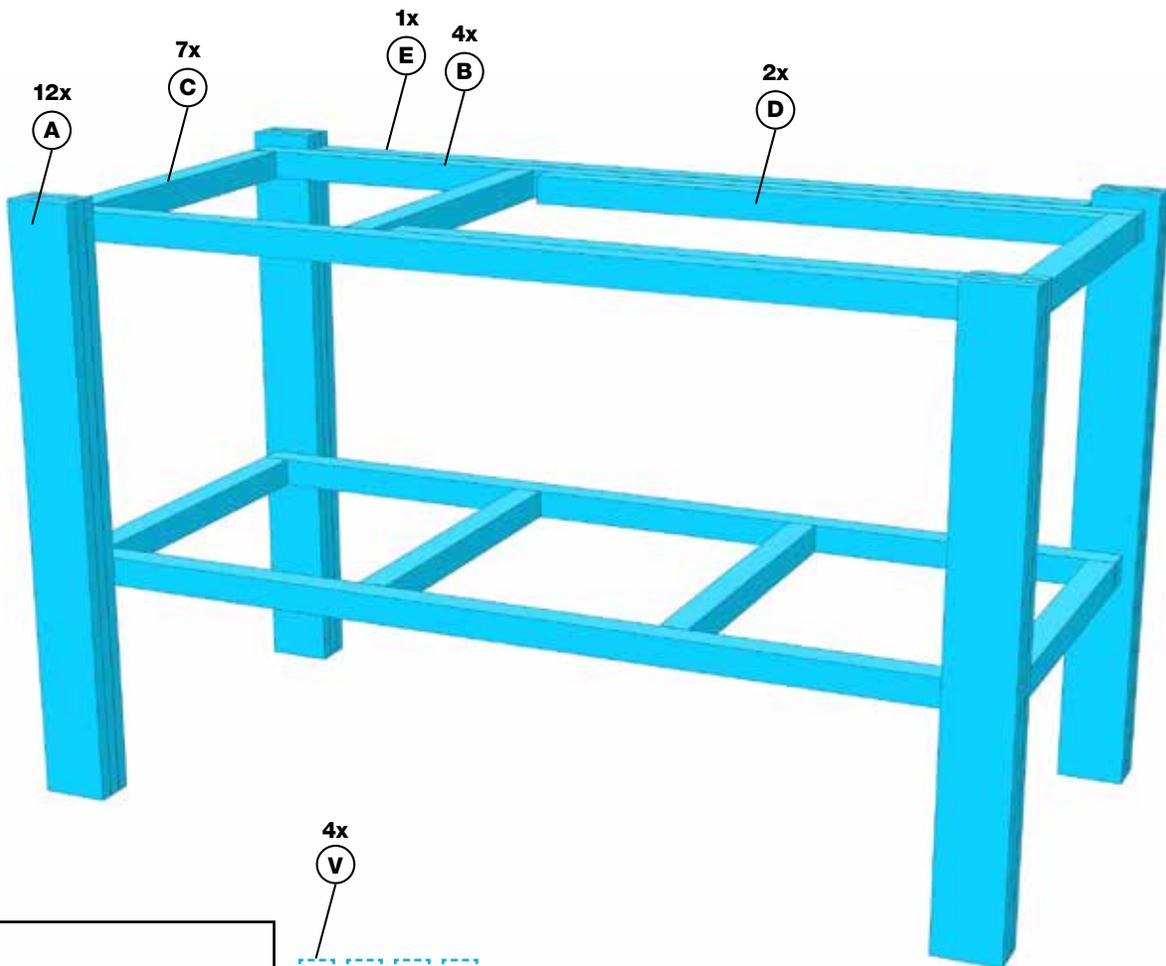


Waterproof wood glue

SUPPLIES



2 1/2" screws
3" screws



Note

Not shown: Parts (V) are 2x4 support blocks that support a frame assembly while securing the legs. They can be discarded after use.

Deluxe Cooler

ASSEMBLY

SECTION 1: FRAME

1



Begin by laying out three Part (A)s with their best faces face down on a work surface. Apply wood glue to their faces and stack the pieces together in a lay-up.

2



Ensuring all edges are flush, carefully clamp the set of three together using three clamps. Repeat until you have four leg lay-ups and set aside to dry for the indicated amount based on the wood glue of your choice.

3



While the leg assemblies are drying, take a Part (B) and (C) and attach them at a 90° angle using a square. Use two 2 1/2" screws at a diagonal as shown.

4



Attach three more Part (C)s in the same manner, where the two inside (C)s are evenly spaced between the two outside ones.

5



Complete the frame with another Part (B) and set aside.

6



Make a similar frame with two Parts (B) and three Part (C)s, where the middle (C) is placed 14 3/4" from the left (C).

7



Place two Part (D)s inside the larger cavity in the frame. Space them so they are flush with the right side and 7/8" from the middle (C). Clamp as needed and secure with five 2 1/2" screws, avoiding any existing screws.

8



Then, place Part (E) on the outside of (B) so that it is centered. Attach with six 2 1/2" screws, careful not to interfere with existing screws. Put two Part (G)s underneath the second frame.

9



Place and attach the legs at four corners using 3" screws. The frame is inset from the legs the thickness of a 1x6. Next, attach the other frame to the legs 16 3/4" up using four Part (V)s to support it.

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ASSEMBLY

YellaWood
Pressure Treated Pine

SECTION 2: EXTERIOR & SHELVING

TOOLS



Drill / driver



Pencil



Measuring
tape



Clamps



Combination
countersink bit
(with 3" long 1/8" bit)



Nail
gun



Level

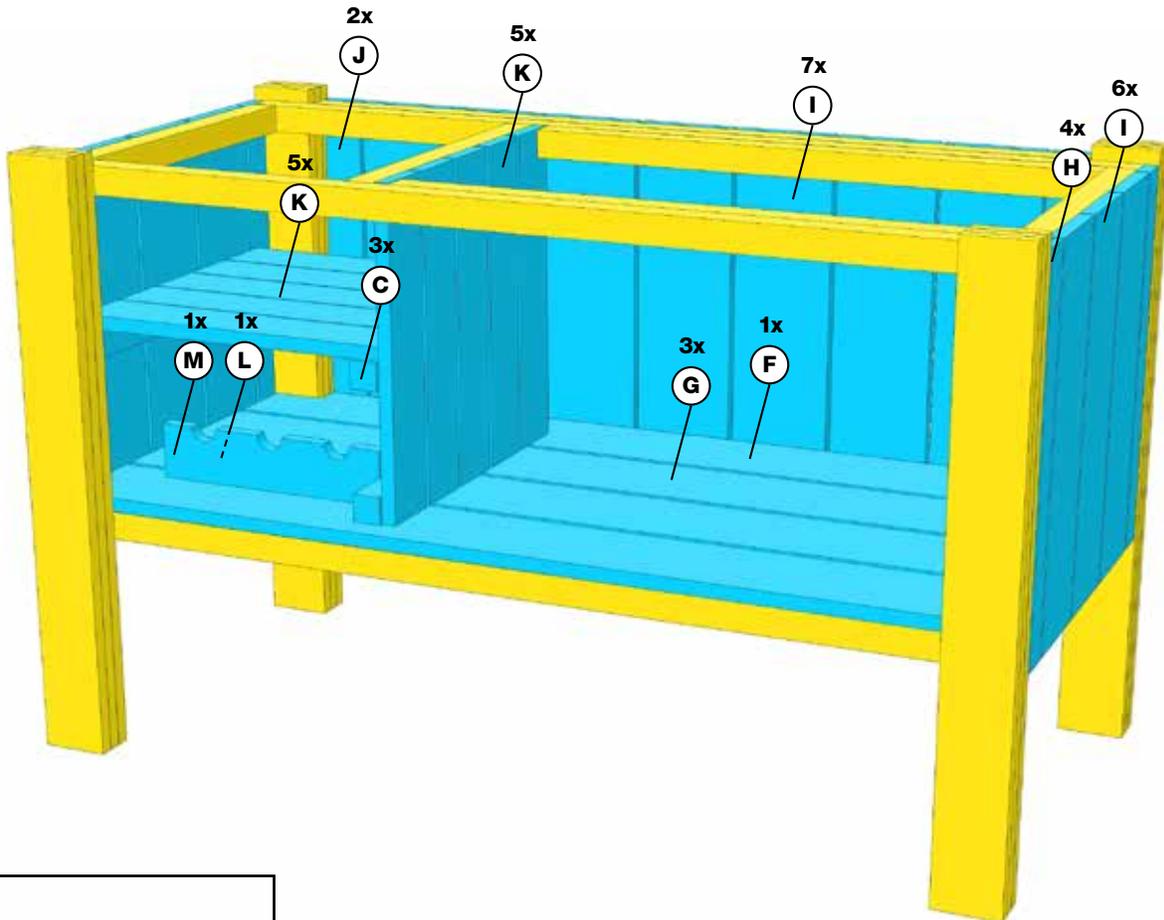
SUPPLIES



1" nails

1 5/8" screws

2" screws



Note

You'll use a Part (N) to ensure the outside cladding is flush, so grab one of these for this section.

Deluxe Cooler

ASSEMBLY

SECTION 2: EXTERIOR & SHELVING

10



Flip the frame over and orient Part (E) so it is at the back. Place Part (F) on the bottom frame at the back. Allow an even gap between the leg faces. Place a wall piece on the back to ensure (F) doesn't stick out.

11



Secure Part (F) to the frame using 1 5/8" screws. Secure the two edges and then fill in the middle screws. Use two 1 5/8" screws per 2x2 frame support.

12



Secure Part (G) in the same manner at the front of the assembly.

13



Fill in the bottom with the remaining Parts (G), evenly spacing as you go.

14



Lay a Part (N) on the top frame. Butt Part (H) up against it, applying pressure to (N). There should be an even gap between the leg, (N), and (H). Use two pairs of 1" nails to attach (H) to the top and bottom frame.

15



After attaching the other Part (H) to the right side, continue attaching Parts (I) using two sets of three 1" nails. Use a Part (N) to ensure the top is flush.

16



Repeat on the other side of the cooler.

17



Attach the back slats starting with the two end pieces, Parts (J), and filling in with Parts (I), evenly spacing as you go.

18



Next, measure and mark a line that is 16 1/4" from the left side of Part (G) on the bottom level.

Deluxe Cooler

ASSEMBLY

SECTION 2: EXTERIOR & SHELVING

19



Place a Part (C) on the outside of this line, where it is 3" from the back wall. It should be directly below the Part (C) above. Secure with two 2" screws per board.

20



Using the Part (C) you just installed and the (C) directly above, place and attach two Parts (K). Secure the front and back ones to Parts (C) using two 1 5/8" screws.

21



Fill in the middle Part (K)s, evenly spacing as you go.

22



Measure and mark a line on Parts (K) that is 5 1/2" up from the Part (C) as shown.

23



Place a Part (C) above this line, clamp, and secure with four 2" screws to Part (K).

24



Lay a Part (K) on top of another Part (C) and, using a level on top of (K), slide Part (C) until it is level with its mate on the other side. Mark the line, remove Part (K), and secure Part (C) using four 2" screws.

25



Attach Part (M) to Part (L) so that their bottoms are flush using three 1 5/8" screws. Clamp as needed.

26



Butt up the assembly to Part (C) on the middle wall and place it 2 3/4" back from the front edge. Secure Part (L) to (G) with three 2" screws. This completes the wine rack.

27



Lay in Parts (K) to the shelf support and evenly space. Attach if desired, or leave loose for more flexibility.

Deluxe Cooler

ASSEMBLY

YellaWood
Pressure Treated Pine

SECTION 3: TOP & DOORS

TOOLS



Drill / driver



Pencil



Measuring
tape



Clamps



Combination
countersink bit
(with 3" long 1/8" bit)



Carpenter
square

SUPPLIES



1 1/4" screws

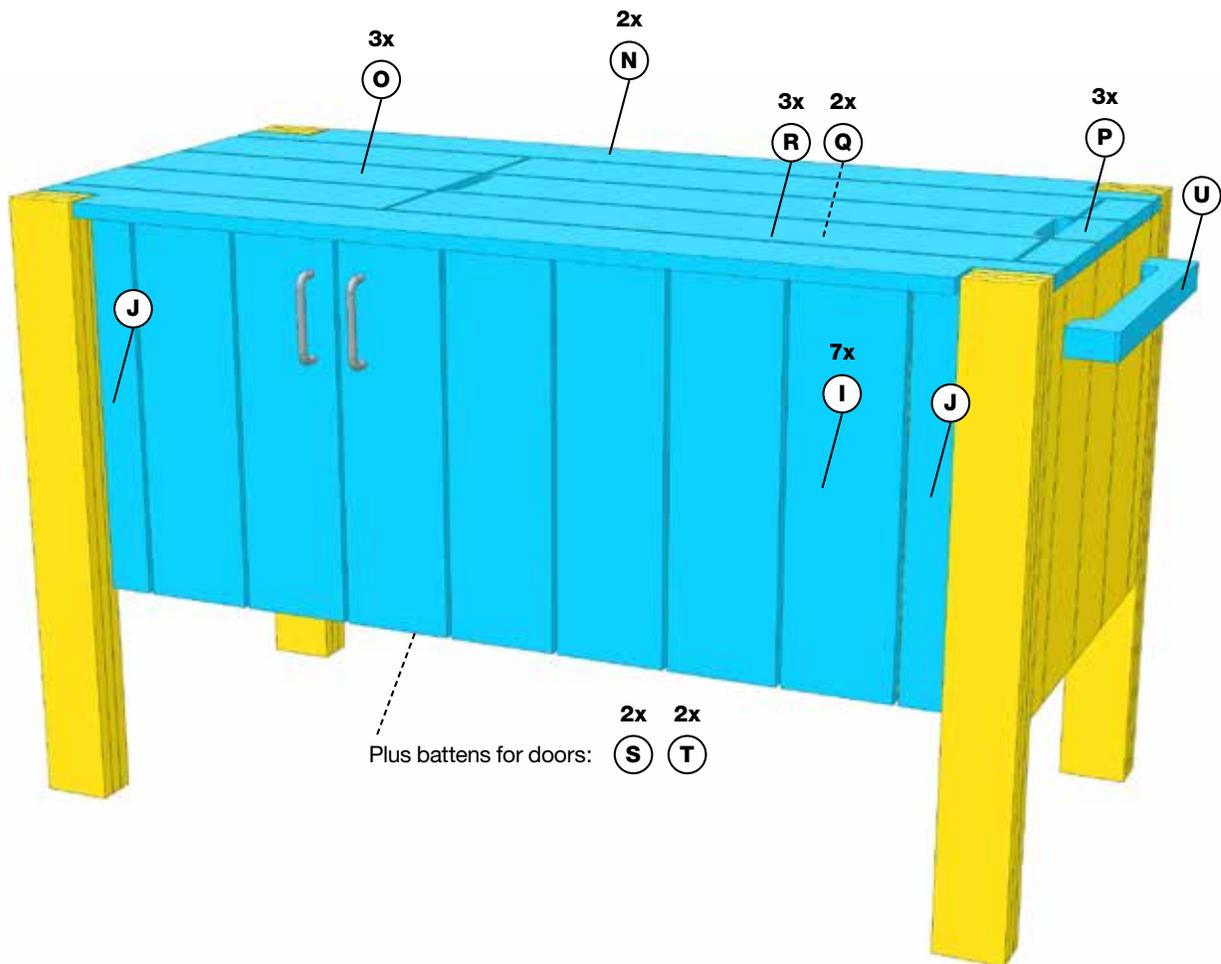
1 5/8" screws

3" screws

Four hinges

Two 4" handles

Two magnetic
door closures



Deluxe Cooler

ASSEMBLY

SECTION 3: TOP & DOORS

28



Attach Part (N) to the top surface, evenly spacing between the two back legs. Use five pairs of 1 5/8" screws.

29



Attach the other Part (N) to the front using five 1 5/8" screws.

30



Cap the right side with three Parts (P) evenly spaced. Use two 1 5/8" screws per board.

31



Next, attach Parts (O) in between Parts (N), evenly spacing and securing with four 1 5/8" screws per board.

32



To make the lid, assemble Parts (R) where the detail cut piece is in the middle and Parts (Q) are on top, 3 1/2" from the edges. Use 1/4" spacers, and attach Parts (Q) using two pairs of 1 1/4" screws per board.

33



Lay in the lid. It rests in the protruding Parts (D) from the top frame.

34



Build the longer, right side door using five Parts (I) and one Part (J), plus two Parts (S) as battens. Use 1/4" spacers and attach with two pairs of 1 1/4" screws per board. Dry fit assembly before attaching all screws.

35



Build the left door in the same manner, using two Parts (I) and one Part (J) with Parts (T) as battens.

36



Add hinges 1" from each edge to the front of the doors as shown. Note that when looking at the front of the doors, Part (J) should be on the right of the big door and on the left for the small door. Dry-fit before completing.

Deluxe Cooler

ASSEMBLY



SECTION 3: TOP & DOORS

37



Secure the door hinges to the front legs using the hardware provided in the hinges. Test both doors and ensure they open and close smoothly.

38



Next, attach the magnetic portion of one of the door latches to the underside of the top frame so it is 1" offset from the middle wall, depending on which door.

39



[A]: Place the metal portion of the door latch on the magnetic portion.

[B]: Carefully trace the metal portion outline onto the back of the left door.

40



Use the outline to set the metal portion in place and attach with the screw provided. Be sure that the pointed corners dig into the door and not away from it.

41



Repeat steps 38-40 for the other door.

42



Attach the handles to the front of the doors so they are 2" from the top of the door and 1" from the edge. Use the hardware provided.

43



To prep Part (U), pre-drill two sets of holes to back side first and then the front side. Then countersink. Set the holes evenly spaced within the protrusion.

44



Attach (U) so it is 2 3/4" down from the top of the cooler and centered between the right legs. Use four 3" screws.

Deluxe Cooler

FINISHING

YellaWood®
Pressure Treated Pine

SECTION 4: FINISHING



TOOLS



Radial sander
(or sanding block)



Paint/Stain
Brush

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. At a minimum, we recommend annual application of a water repellent. You can also paint or stain it if you prefer.

45



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

6



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 DELUXE COOLER!

Deluxe Cooler

GALLERY OF IMAGES

YellaWood
Pressure Treated Pine



Deluxe Cooler // Hack

PROJECT PLAN

YellaWood
Pressure Treated Pine



Build this easy bottle cap magnet hack. (As if the cooler wasn't cool enough.)

A simple addition to the Deluxe Cooler, this hack adds the convenience of a bottle opener directly onto its side.

As one of the quickest hacks, it calls for a few simple operations and the purchase of a bottle opener and magnets.

Once the piece of wood is cut to shape, holes are drilled for the magnets to be embedded on the back, the bottle opener is installed on the front, and the whole unit is attached to the Deluxe Cooler. An easy and impactful upgrade.

BUILD TIME

1
HR

DIFFICULTY

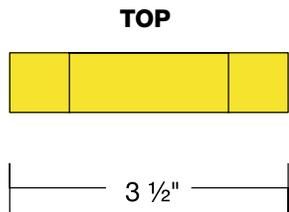
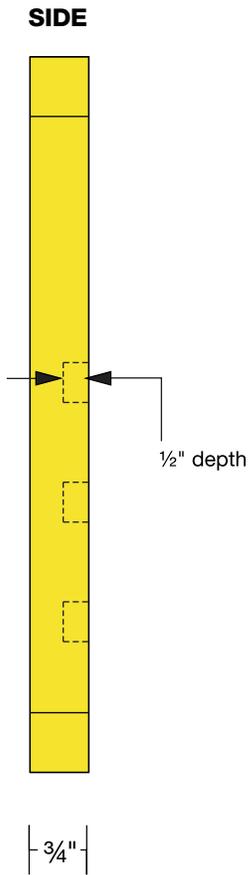
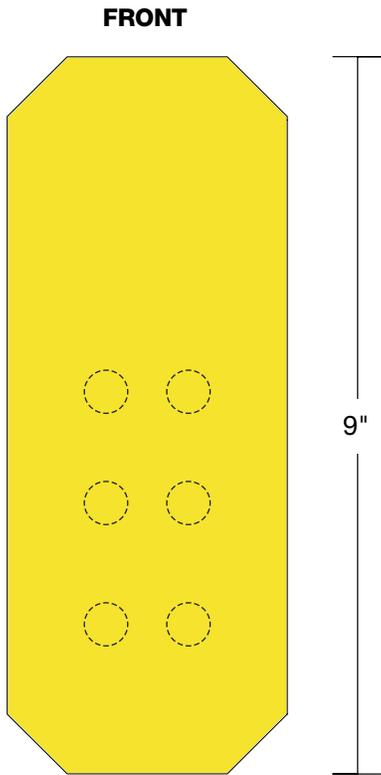
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COST

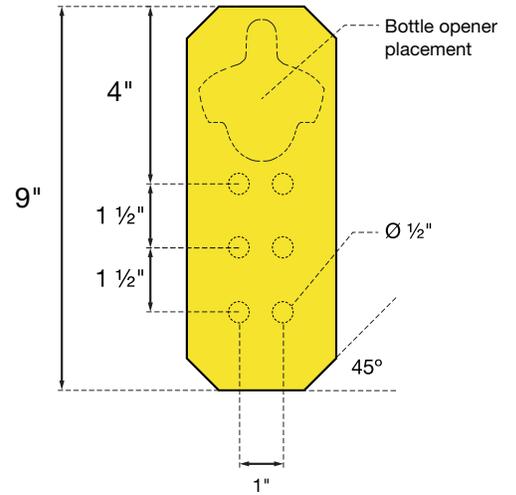
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Deluxe Cooler // Hack

OVERALL SIZE & DIAGRAMS



LAYOUT DIAGRAMS



Note: Diagrams not to scale.

Deluxe Cooler // Hack

YellaWood
Pressure Treated Pine

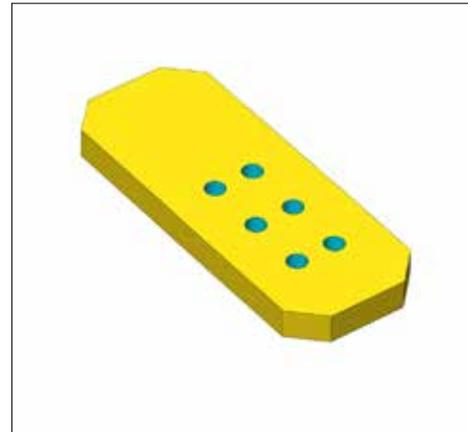
OVERVIEW OF STEPS

SEQUENCE OF BUILD

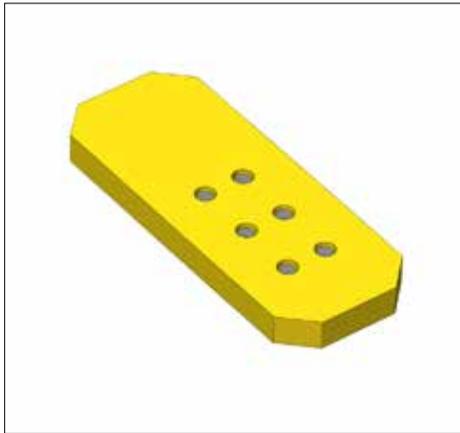
1: CUT TO SHAPE



2: CUT MAGNET HOLES



3: EMBED MAGNETS



4: INSTALLATION



BUILD TIME

CUTTING &
ASSEMBLY

FINISHING

TOTAL

IN JUST

1/2
HR

+

1/2
HR

=

1
HR

6
STEPS

Deluxe Cooler // Hack

YellaWood
Pressure Treated Pine

WHAT YOU'LL NEED

MATERIALS

- 1x** 1x4x8' YellaWood® brand pressure treated pine

HARDWARE

½ LB BOX

- 1 ¼" wood screws + appropriate bit

OTHER

- Epoxy
- 6x** ½" x ¼" thick magnets
- 1x** Weather-proof bottle opener

WOOD FINISHING

- YellaWood Protector® Stain & Sealer

TOOLS



Pencil



Measuring tape



Miter saw
(or chop saw)



½" Forstner bit



Drill / driver



Radial sander
(or sanding block)



Rag



Paint/Stain
Brush

SAFETY EQUIPMENT

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

Notes:

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

Deluxe Cooler // Hack

ASSEMBLY

INSTRUCTIONS FOR ALL SECTIONS

1



Measure and mark $\frac{3}{4}$ " from each corner and cut corners with a miter saw set to 45°. Lightly sand the edges of the perimeter.

2



Measure and mark the center-points of six holes using the dimensions on the Diagrams page.

3



Cut holes using a $\frac{1}{2}$ " forstner bit to $\frac{1}{2}$ " depth.

4



Insert epoxy into the bottom of the holes - about a $\frac{1}{4}$ " thickness. Then place magnets into the holes, wiping excess glue as you go. The magnets should sit a bit sub-flush of the back surface. Allow epoxy to fully cure.

5



With the magnet holes facing the Deluxe Cooler, attach the bottle opener of your choice. See Diagrams page for layout.

6



Finish by installing the completed unit onto the left side of the cooler using four $1 \frac{1}{4}$ " screws at each corner.

6



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.

Deluxe Cooler // Hack

GALLERY OF IMAGES



Deluxe Cooler

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.

Deluxe Cooler

IMPORTANT INFORMATION

YellaWood®
Pressure Treated Pine

- 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.