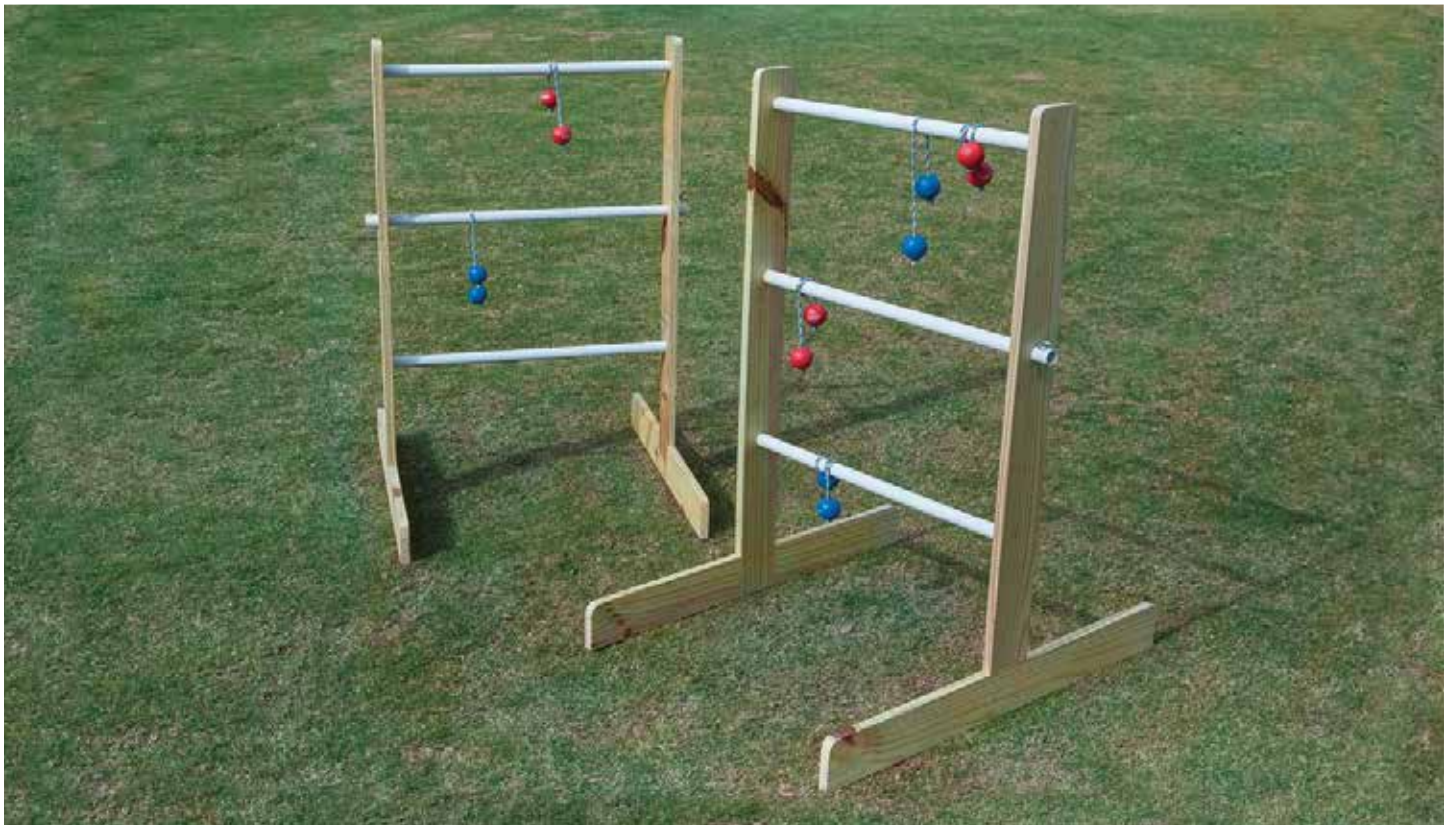


Ladder Golf

BACKYARD
GAMES
SERIES

YellaWood®
Pressure Treated Pine

PROJECT PLAN



Out-build them. Then out-play them.

The simple construction of this outdoor activity makes it an ideal weekend or even after-work project.

Using just a few YellaWood® boards and some PVC pipe, the game takes shape in a few steps.

The set features 2 ladders made of 1x4 stock and PVC pipes for the rungs.

Drilling holes at the ends of the center rung allows for a hitch pin to lock in each side of the rung, and this tightens the entire ladder to become a sturdy frame.

After sanding and sealing the wood of the two ladders, it's just a matter of getting a set of bolas before an official game can ensue.

Note: Bolas not included

BUILD TIME

3
HRS

DIFFICULTY



COST



- Read instructions through and familiarize yourself with the entire process before you begin construction
- Always double check measurements before you make any cuts

- Great Southern Wood cannot be held responsible for incorrect cuts

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Ladder Golf

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WHAT YOU'LL NEED

SUPPLIES

WOOD STOCK

4x 1"x4"x8'

HARDWARE

4x

1/4"x1 3/4" Hitch Pin (cotter-less)

OTHER

2x

3/4"x8' PVC pipe

FINISHING

YellaWood Protector® Stain & Sealer

*A standard table saw blade works as well, but a dado aids by taking more material out each pass than a regular blade does.

TOOLS



Chop saw
(or hand or
circular saw)



Table saw



Drill / driver



1/4" Drill
bit



Dado
blade*



Rotary
sander



Measuring
tape



Wood
glue



1 1/8"
Forstner bit



Paint/Stain
Brush

BUILD TIME

CUTTING

1
HRS

+

ASSEMBLY

1
HRS

+

FINISHING

1
HRS

=

TOTAL

3
HRS

Ladder Golf

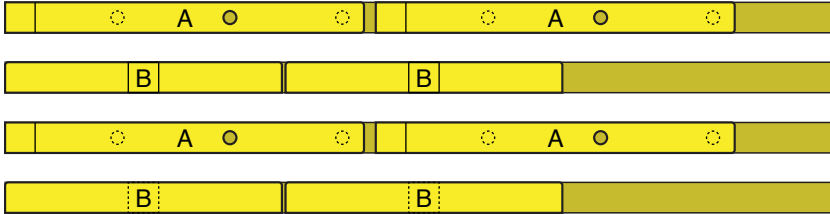
BACKYARD
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WHAT YOU'LL NEED

CUT LIST: DIAGRAMS

1x4x8' STOCK
4 BOARDS



3/4"x8' PVC PIPE
2 PIPES



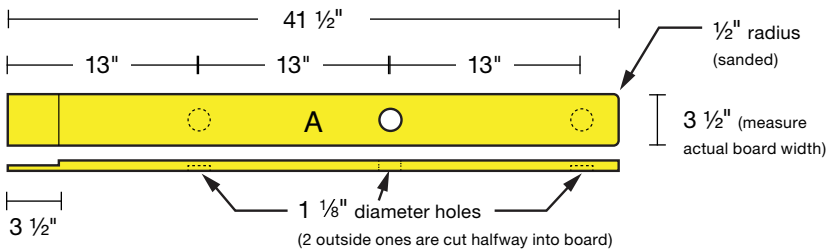
Note:

There are no direct-measures for this project, so feel free to cross-cut all pieces on the Cut List prior to assembly.

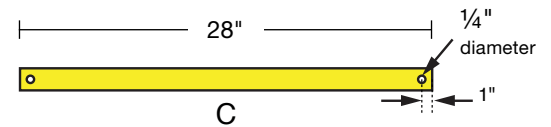
However, for the lap joint on Parts A, follow instructions found on Page 6.

CUT LIST: DIMENSIONS

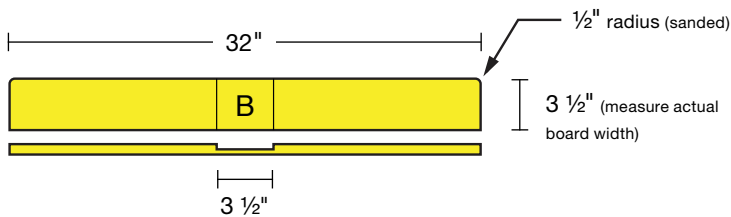
PART A (4x)



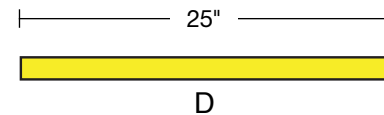
PART C (2x)



PART B (4x)



PART D (4x)



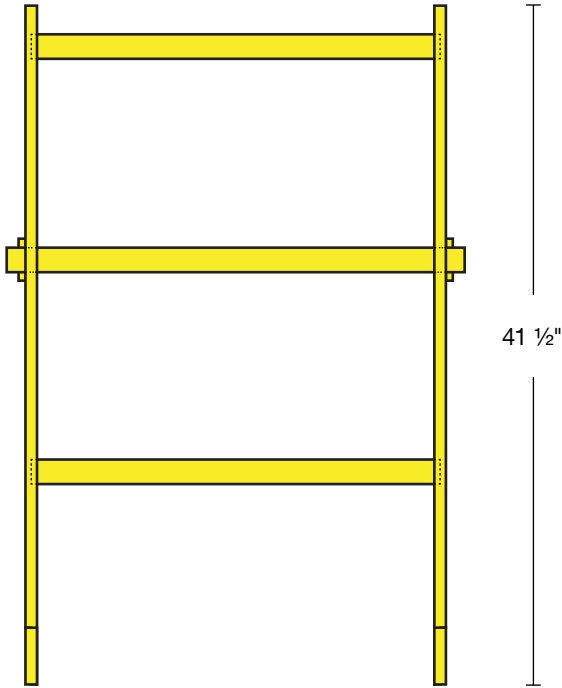
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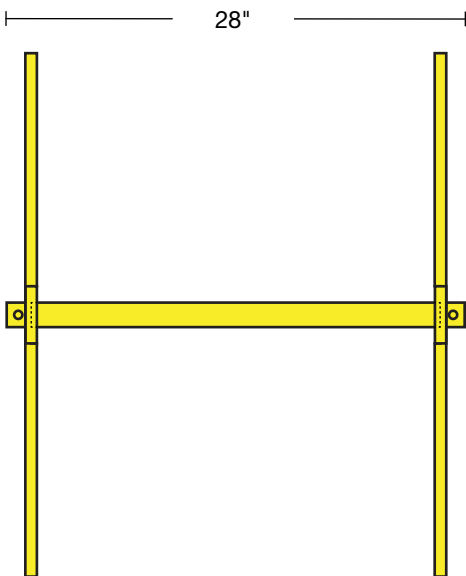
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DIMENSIONS & DIAGRAMS

FRONT



TOP



Ladder Golf

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OVERVIEW OF STEPS

SEQUENCE OF BUILD



1: POSTS



2: BASE LEGS



3: RUNGS



4: ASSEMBLY



5: FINISHING & ACCESSORIES



Ladder Golf

DIMENSIONS & DIAGRAMS

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STEP 1: POSTS



1



Cut 4 1x4s to a length of 41 1/2" using a miter saw.

2



Use the width of one board to mark the end of another. 3 1/2" is typical, but measure your stock. This will mark where the lap joint will be cut, and to ensure the joint is flush, use the actual board width.

3



Mark the other 3 boards.

4



With a dado blade installed on a table saw, cut a half lap joint on one end. A standard table saw blade works too, but dado blades take more material out. The depth of the blade should be half of the board thickness (approximately 3/8").

5



Begin with the blade height lower than you think, then test your joint against another one to dial in a half-depth so the joint is flush.

6



Do this to the remaining posts.

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DIMENSIONS & DIAGRAMS

STEP 1: POSTS

7



With the half lap cut facing down, mark a point 13" from the bottom edge and centered along the width of the board.

8



Drill a 1" diameter hole to a depth of $\frac{3}{8}$ ".

Tip: Clamp workpiece to surface before drilling.

9



With the half lap cut still facing down, mark another point 26" from the bottom edge and centered along the width of the board.

10



Drill a 1" diameter hole all the way through the board.

11



Then mark a point 39" from the bottom edge and centered along the width of the board.

12



Drill a 1 $\frac{1}{8}$ " diameter hole to a depth of $\frac{3}{8}$ ".

13



Repeat steps 7-12 on the remaining 3 boards.

14



Sand the top corners of the posts to a radius that is approximately $\frac{1}{2}$ ".

Ladder Golf

DIMENSIONS & DIAGRAMS

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STEP 2: BASE LEGS



15



Cut a 1x4 to a length of 32" using a miter saw.

16



Mark the center of the board.

17



Draw two lines spaced 1 3/4" from the center point. Use these as guides to center another board perpendicular at the center, and mark the edges. These are the outer edges of the half lap joint.

18



With a dado blade on a table saw, cut a half lap joint in between the two lines you drew. The depth of the blade should be half of the board thickness (approximately 3/8").

19



Repeat steps 15-18 on the remaining 3 legs.

20



Sand the top corners of the base legs to a radius that is approximately 1/2".

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DIMENSIONS & DIAGRAMS

STEP 2: BASE LEGS

21



Apply wood glue to the half lap joints on parts (A) and (B).

22



Arrange the parts as shown and clamp until the wood glue dries.

23



Once dried, lay one assembly on its side with the holes facing up.

Ladder Golf

DIMENSIONS & DIAGRAMS

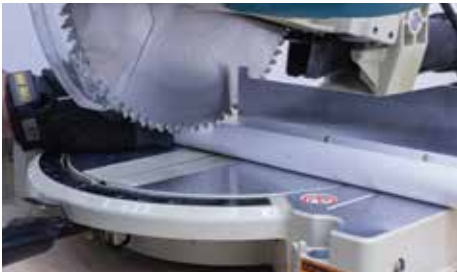
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STEP 3: RUNGS



24



CENTER RUNG ONLY

Cut two $\frac{3}{4}$ " diameter PVC pipe to a length of 28" using a miter saw.

25



Mark a point $1 \frac{1}{8}$ " from each end. This will be the center of the hole.

26



Drill a $\frac{1}{4}$ " diameter hole all the way through the PVC pipe.

27



Do this for the other Center Rung for your other set.

28



TOP AND BOTTOM RUNGS

Cut two $\frac{3}{4}$ " diameter PVC pipes to a length of 25" using a miter saw for each set.

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DIMENSIONS & DIAGRAMS

STEP 4: ASSEMBLY



29



Insert the Top and Bottom Rungs into the top and bottom holes, then insert the Center Rung into the center holes.

30



At either end of the Center Rung, insert a hitch pin into the holes. It should be a tight fit, allowing tension to transfer to the Top and Bottom Rungs. This will complete the assembly.

Ladder Golf

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GAMES
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YellaWood®
Pressure Treated Pine

DIMENSIONS & DIAGRAMS

FINISHING & ACCESSORIES



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.

31



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

32



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.

33



Add the bolas of your choice. 2 different colors are needed to differentiate teams.

CONGRATULATIONS. ENJOY YOUR NEW LADDER GOLF GAME SET!

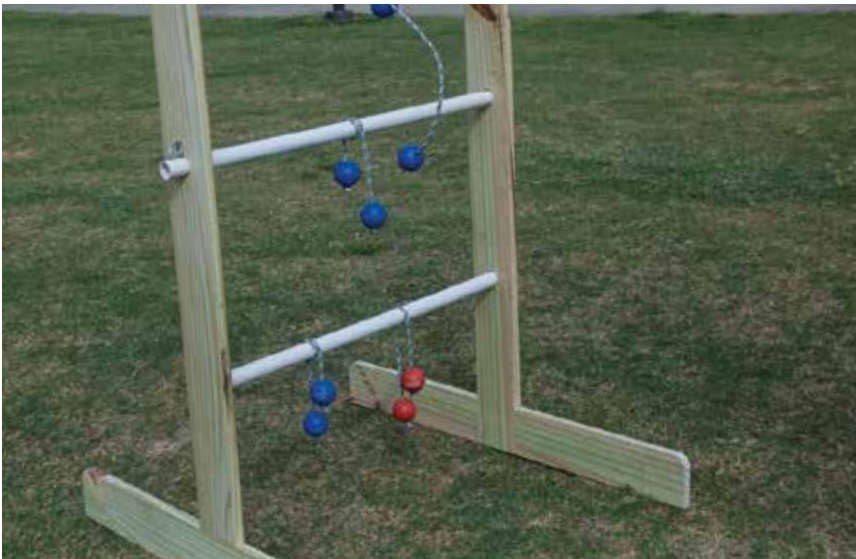
Ladder Golf

DIMENSIONS & DIAGRAMS

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GALLERY OF IMAGES



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.

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.