

ProWood® Project Plan

DOG HOUSE

Bonus Project Plan Included: Attachable Double Dog Bowl Holder

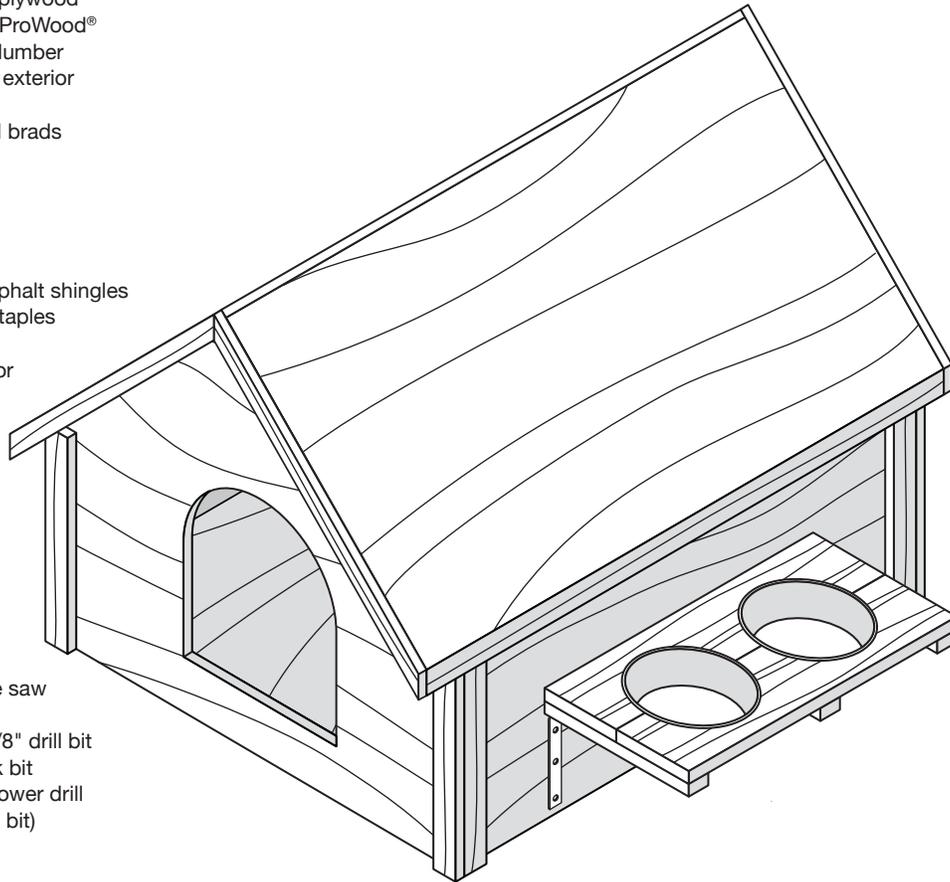
With ProWood® Professional Grade pressure-treated lumber, you can easily build this classic, durable and inexpensive dog house that will keep your pet warm and dry. It features a removable roof for easy cleaning, and its raised floor will further protect your dog from cold and wet weather. This plan will accommodate dogs up to 60 pounds, but it can be modified to fit a dog of any size.

Materials:

- Three 3/4" x 4' x 8' ProWood® pressure-treated plywood
- Two 1" x 4' x 10' ProWood® pressure-treated lumber
- One box of 2" #8 exterior wood screws
- 1-1/2" galvanized brads or finish nails
- Wood glue

Optional:

- 15-lb. roofing felt
- One bundle of asphalt shingles
- 3/8" galvanized staples
- 3/4" roofing nails
- Small tube exterior silicone sealant



Basic Tools:

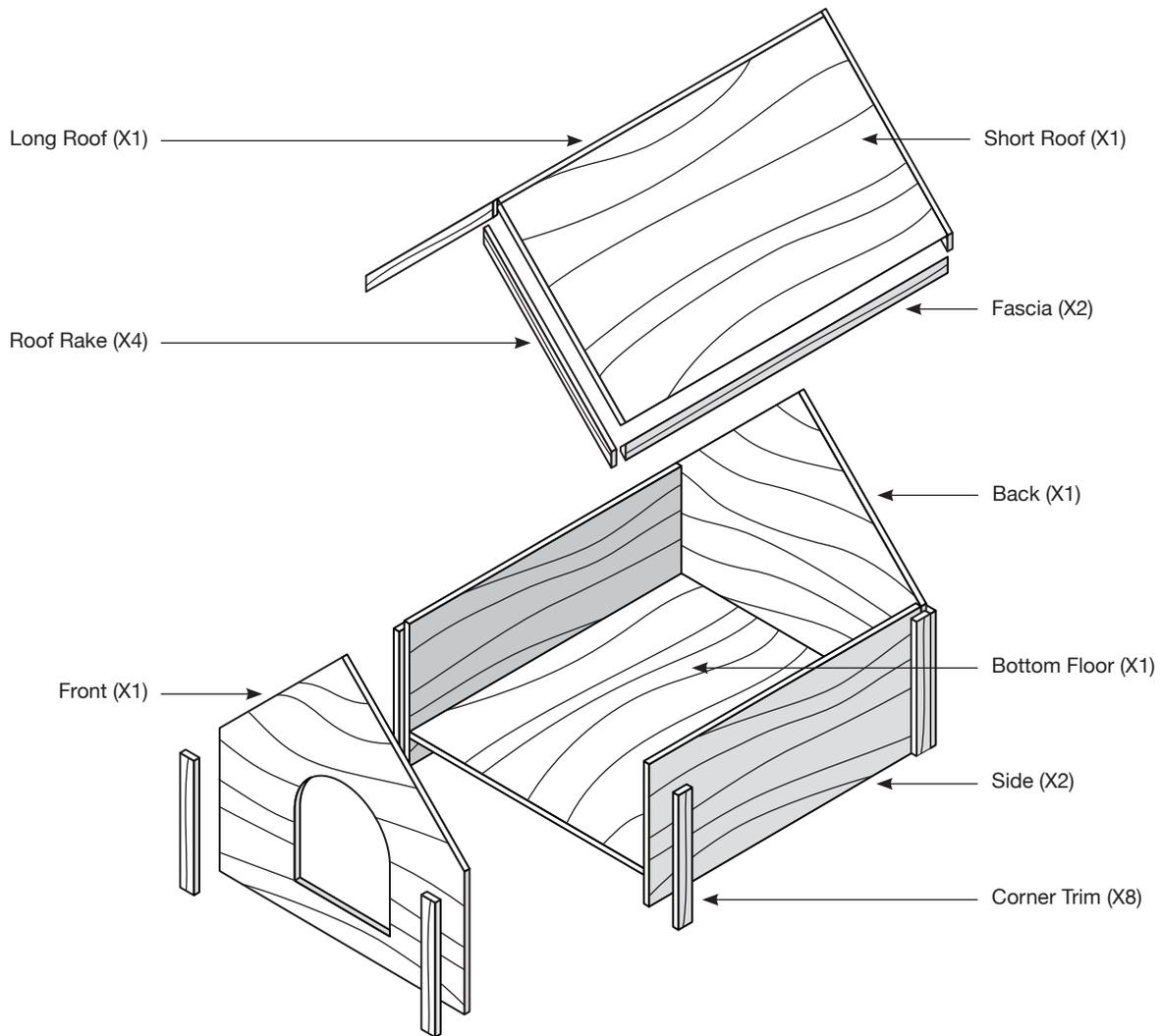
- Circular and table saw
- Jigsaw
- Power drill and 1/8" drill bit
- 7/64" countersink bit
- Screwdriver (or power drill with screwdriving bit)
- Tape measure
- Straightedge
- Carpenter's square
- Clamps
- Hammer
- Brad nailer or hammer and nail set

Optional:

- Stapler
- Utility knife
- 1 cu. ft. cedar wood chips

prowood
PROFESSIONAL GRADE™

If your wood project touches the ground, use pressure-treated lumber that is rated for ground contact to ensure long-term performance.



Cut the Wood to Size

Caution: Always wear gloves, a dust mask and eye protection when sawing, sanding or machining wood.

Using a circular or table saw and a clean, flat and level surface, cut the following ProWood® pressure-treated wood for the components of the dog house. Refer to the illustration above to help identify the different pieces of wood that are needed for this project.

Plywood

Cut three 3/4" x 4' x 8' ProWood® pressure-treated plywood to size.

Tip: Rip and cross-cut the sides, bottom, long roof and short roof from the plywood according to the final dimensions below. Unless you are working with an extension or a large support for a table saw, you should make the first cuts from a full sheet of plywood with a circular saw while using a straightedge as a guide. You can then trim or cut the smaller sheets to size on a table saw.

- Front and Back: Two 3/4" x 36" x 36"
- Sides: Two 3/4" x 18" x 40"
- Bottom Floor: One 3/4" x 34-1/2" x 40"
- Short Roof: One 3/4" x 26-1/4" x 48"
- Long Roof: One 3/4" x 27" x 48"

Lumber

Cut two 1" x 4" x 10' ProWood® pressure-treated lumber to size.

Tip: Using a table saw, rip the 1" x 4" lumber in half lengthwise, resulting in two pieces of lumber 1-5/8" wide x 10' long. Then cut the ripped pieces according to the final dimensions below.

- Corner Trim: Eight 3/4" x 1-5/8" x 17"
- Fascia: Two 3/4" x 1-5/8" x 48"
- Roof Rake: Four 3/4" x 1-5/8" x 29"

General Assembly Advice

- Establish a screw pattern to enhance the overall look and feel of the final assembled product.
- Pre-drill all screw holes with a 1/8" drill bit to ease screw insertion into the material and prevent wood splitting.
- Countersink all screws so the head of a countersunk screw, when placed in the hole, will sit flush with or below the surface of the surrounding material.
- Use wood glue to help strengthen all fastened components.

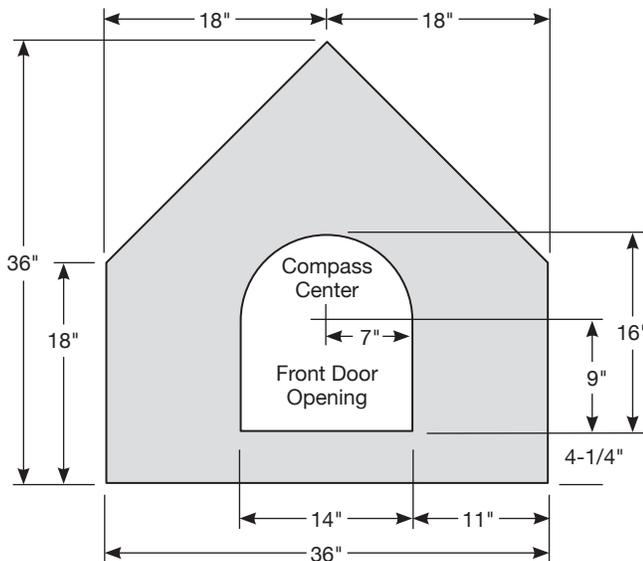
Cut the Front and Back Pieces

Front and Back Angled Roof Lines

- The angled roofs, sides and bottoms of the front and back pieces need to be identical. Clamp the 36" square plywood pieces together, keeping all edges flush.
- Lay out and mark the roof angle cuts according to the measurements in the illustration below.
- Use a straightedge as a guide and make the angled cuts with a circular saw.

Front Door Opening

- Remove the clamps and separate the front and back pieces.
- Lay out and mark the door opening on the front piece of plywood according to the measurements in the illustration below. Set your compass to a radius of 7" and draw a 14" diameter arc.
- Drill a 1/4" pilot hole inside the door opening's marks.
- Insert a jigsaw blade and cut out the opening.



Build the Dog House

Sides and Back

- Attach the sides to the back by drilling countersunk holes through the face of the back piece and into the edge of the side pieces.
- Attach with glue and 2" #8 exterior wood screws.

Bottom Floor

- This dog house plan features an elevated floor. Place three 2" x 4" scrap pieces of lumber, on edge, inside the bottom of the dog house so its floor will be uniformly raised 3-1/2" above the ground.
- Place the bottom floor piece on top of them.
- Drill countersunk pilot holes through the outside perimeter of the sides and back assembly and into the edge of the bottom floor piece, all the way around, spacing the holes about 6" apart.
- Remove the bottom floor piece and apply glue to the three edges where you drilled the pilot holes.
- Place the bottom floor piece back inside the assembly and attach with 2" #8 exterior wood screws.

Front

- Put the front piece in place and drill countersunk pilot holes through the face and into the edge of the sides and bottom floor piece.
- Remove the front piece and apply glue to the edges of the sides and bottom floor piece.
- Attach the front piece to the sides and bottom floor piece with 2" #8 exterior wood screws.

Roof Panels

- Build the roof by drilling through the face of the longer roof panel and into the edge of the shorter roof panel along the 48"-long edge.
 - Apply glue to the edge of the shorter roof panel.
 - Attach the two roof panels with 2" #8 exterior wood screws.
- Tip:** This step is easiest to do with the roof panels standing up on their shorter edge (front or back as opposed to top or bottom) on a flat surface.

Corner Trim

Refer to the illustrations on pages 1 and 2.

- For each corner, overlap a 3/4" x 1-5/8" x 17" corner trim piece for the front or back with a trim piece for the side. Make sure the bottom of each corner trim piece is aligned to the bottom of the doghouse.
- Attach with wood glue and brads, or use finish nails and a hammer.

Roof Trim

Refer to the illustrations on pages 1 and 2.

- To assure a tight fit for the roof trim, cut a 45° angle on one end of a 3/4" x 1-5/8" x 29" roof rake.
- Hold it in place under the roof edge and mark the other end at the bottom edge of the roof.
- Cut a parallel 45° at that mark.
- Attach the roof rake to the roof panel with wood glue and brads.
- Repeat this step for the other roof rake pieces.
- Once they are attached with brads, go back and drill countersunk pilot holes through the roof top into the roof rakes at 6" intervals, then attach with 2" #8 exterior wood screws.

Fascia

Refer to the illustrations on pages 1 and 2.

- Measure between the roof rakes or hold a piece of 3/4" x 1-5/8" x 48" fascia trim under a roof panel. Mark it and cut it to length.
- Rip a 45° bevel along one long edge of the fascia trim to match the bottom edge of the roof panel.
- Attach the fascia to the roof panel and the ends of the roof rakes with wood glue and brads, then countersink screws, as with the roof rakes.

Optional Roofing

- Apply roofing felt on top of the roof. Roll it out, let it overhang, and attach it to the roof with 3/8" galvanized staples.
 - Trim the roofing felt flush with the roof with a utility knife.
 - Add shingles. To make a starter strip for the shingles, score a line on the back of a shingle along the top edge of its cellophane/adhesive strip.
 - Bend at the line and break the shingle apart. Place it on the roof face up with the adhesive along the bottom edge, keeping the shingle edges flush or slightly overhanging the roof edge.
 - Attach the shingle to the roof with 3/4" roofing nails.
- Note:** Use 3 roofing nails along the top of the starter strip.
- Continue along the entire bottom edge of both sides.

Optional Roofing (continued)

- Apply the remaining shingles as on a regular roof, starting from the bottom edge, overlapping each course and staggering the shingle slots/seams.
- Finish the peak by applying ridge caps. Cut a shingle in thirds with a utility knife.
- Cut back the top half at a slight angle so it will be hidden by the next layer of shingles applied on top of it.
- Apply the cut ridge cap shingles by bending each piece over the peak. Attach it to the roof with 3/4" roofing nails just above the adhesive strip, about 2" in from the angled edge.
- On the last ridge cap, nail through the face of the shingle and apply a thick bead of silicone sealant over the nailhead.

Optional Finish

- Fill all of the countersunk screw holes with exterior-grade wood putty.
- Make sure all nailheads are set, then sand everything smooth.
- Apply exterior paint and/or finish according to manufacturer recommendations.

Optional Bedding

Help keep the interior of the dog house comfortable, fresh and insect-free. Add cedar wood chips and replenish or replace them as needed.

Optional Double Dog Bowl Holder

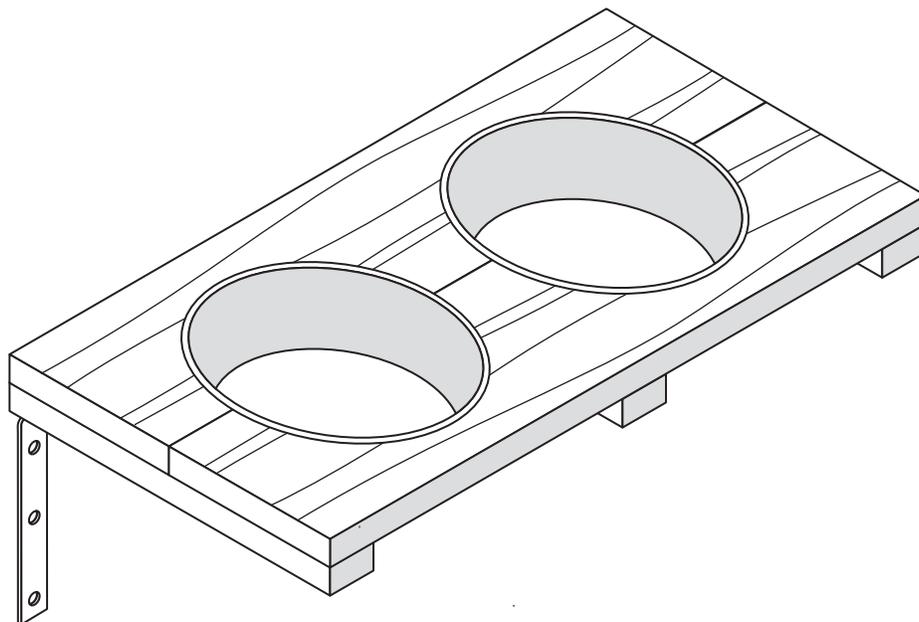
With ProWood® Professional Grade pressure-treated lumber, you can quickly build this durable and inexpensive double dog bowl holder that easily attaches to your pet's dog house. Although this plan uses 8" diameter stainless-steel dog bowls, it can be modified to fit any smaller-sized bowls.

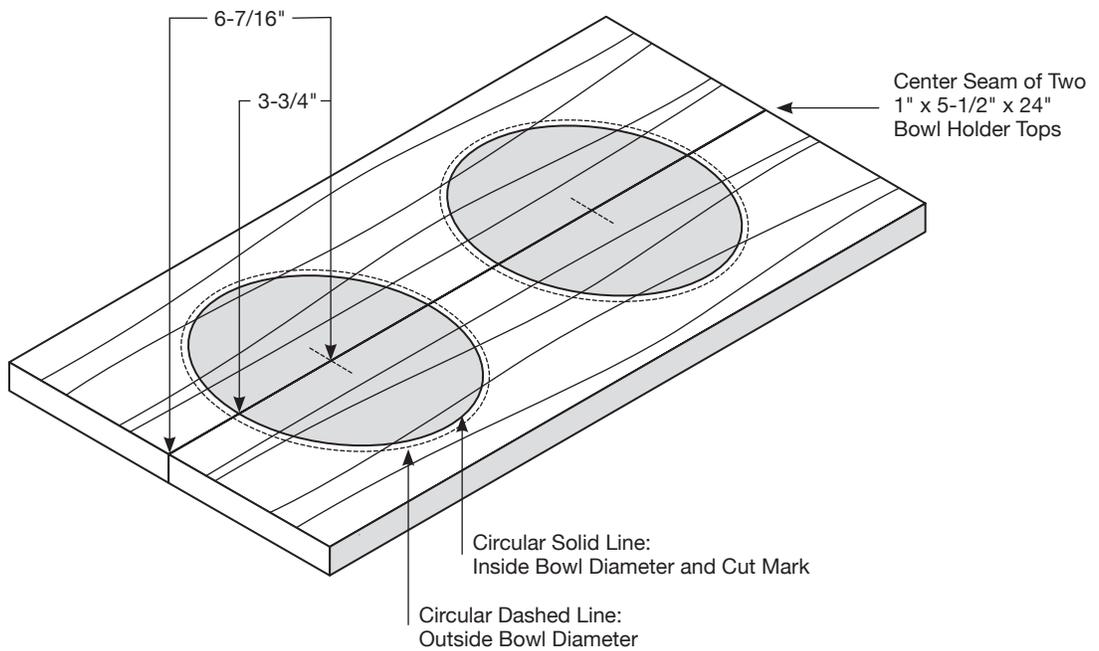
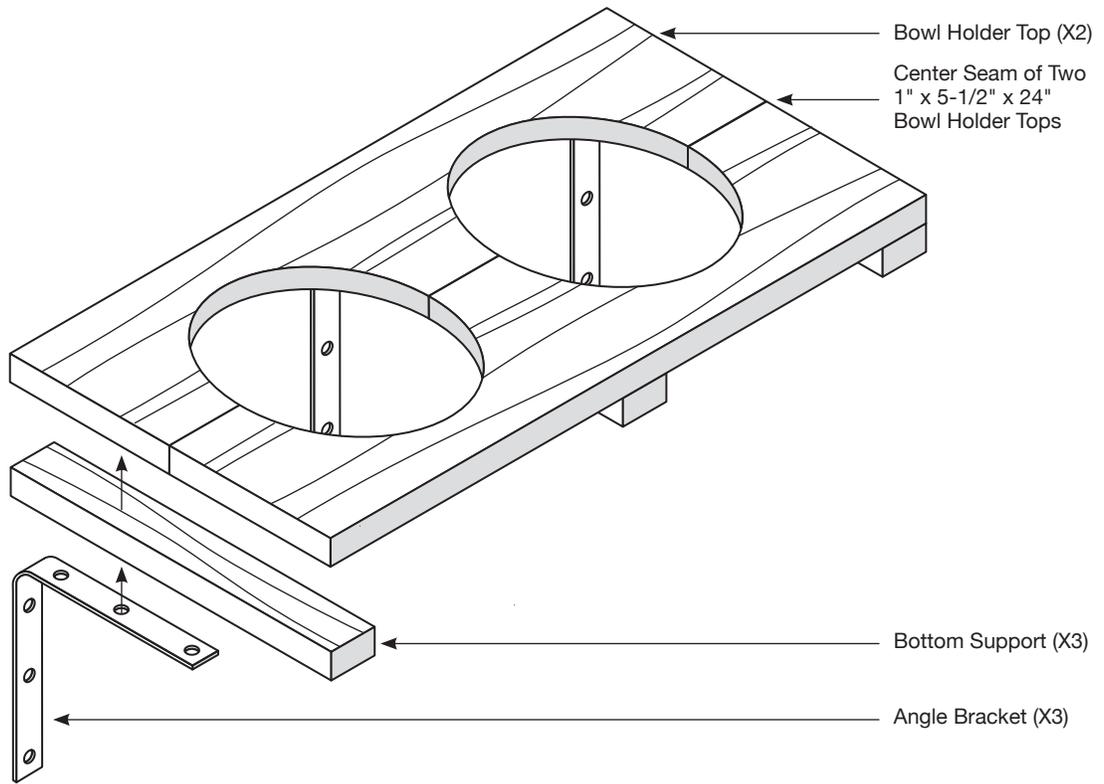
Materials

- One 1" x 6" x 6' ProWood® pressure-treated lumber
- One box of 2" #8 exterior wood screws
- Nine 3/4" #12 stainless-steel Phillips oval-head screws
- Nine 1/4" x 1-1/2" galvanized hex head bolts
- Nine 1/4" #20 galvanized nuts
- Nine 1/4" galvanized washers
- Three 6" stainless-steel angle brackets
- Indoor/outdoor spray spar urethane
- Two 8" stainless-steel dog bowls

Basic Tools

- Circular or table saw
- Jigsaw with 12-teeth-per-inch blade
- Miter saw or hand saw and miter box
- Power drill and 3/32", 1/8" and 1/4" drill bits
- Screwdriver (or power drill with screwdriving bit)
- Adjustable wrenches
- Tape measure
- Compass
- Carpenter's square
- Painter's or masking tape
- Clamps
- Random-orbit sander or sanding block with medium- and fine-grit sandpaper





Cut the Wood to Size

Caution: Always wear gloves, a dust mask and eye protection when sawing, sanding or machining wood.

Using a circular or table saw and a clean, flat and level surface, cut the ProWood® pressure-treated lumber for the components of the double dog bowl holder. Refer to the illustration on top of page 5 to help identify the different materials and parts needed for this project.

Lumber

Cut the 1" x 6" x 6' ProWood® pressure-treated lumber to size.

- Bowl Holder Top: Two 1" x 5-1/2" x 24"
- Bottom Supports: Three 1" x 1-3/4" x 11"

Tip: For the bottom supports, first use a circular saw to cut the 1" x 6" to a length of 11". Then use a table saw to rip the 1" x 6" x 11" lumber lengthwise into thirds, resulting in three pieces of lumber 1-3/4" wide x 11" long.

General Assembly Advice

- Establish a screw pattern to enhance the overall look and feel of the final assembled product.
- Pre-drill all screw holes with a drill bit slightly smaller than the screw width to ease screw insertion into the material and to prevent wood splitting.
- Countersink all screws so the head of a countersunk screw, when placed in the hole, will sit flush with or below the surface of the surrounding material.

Make the Bowl Holder Top

Refer to the illustration on bottom of page 5 to see how to measure and mark the bowl holder top.

- Lay both 1" x 5-1/2" x 24" top pieces side-by-side on a flat surface. Determine which edges together produce the smallest gap at the seam, while also deciding which surfaces look best.
- Use painter's tape to hold the selected halves together.
- Flip both top pieces upside down.
- Measure and mark 6-7/16" in from the left side along the center seam of both boards.
- Use a compass set to a radius of 3-3/4" and position its center point on the marks. Then draw two arcs, one on each board, making a complete circle.
- Repeat this process for the right side of both boards.

Tip: For dog bowls smaller than 8" diameter, measure the diameter of one dog bowl at the inside top (not including any lip around the top) and divide that number in half for the radius to set the compass. If a compass is not available, search for a lid or container with approximately the same diameter, and use for tracing.

- Remove the tape to separate the two top pieces.
- Clamp the center of one 1" x 5-1/2" x 24" top piece to your work surface so one end overhangs the surface and the jigsaw blade clears it.
- Cut out the half circle.
- Repeat this process for the other half circle.
- Then repeat the preceding 3 steps for the other 1" x 5-1/2" x 24" top piece.
- Sand the circles smooth.

Attach the Bottom Supports

- Place both 1" x 5-1/2" x 24" top pieces side-by-side on a flat surface so two complete circular shapes appear. Make sure their best side is facing down.
- Place a 1" x 1-3/4" x 11" bottom support along both outside ends of the top pieces. Make sure all edges are flush.
- Pre-drill with a 1/8" drill bit and countersink each bottom support in order to place two screws 1" in from the outside edges and two screws 1" in from the shared edge (center seam).
- Attach the outer bottom supports to the top pieces with 2" #8 exterior wood screws.
- Mark and center the remaining 1" x 1-3/4" x 11" bottom support to the bottom of the top pieces.
- Repeat the above processes to pre-drill, countersink and attach the bottom center support to the top pieces.
- For the safety of pets and people, slightly round off the outside square corners with a jigsaw or sandpaper, or angle-cut.

Protect the Wood

- Lightly sand the assembled double dog bowl holder and clean with a damp cloth. Allow the wooden surfaces to dry before applying a protective finish.
- Following the manufacturer's directions, apply a good quality indoor/outdoor spray spar urethane to all exposed wood surfaces and allow to dry before proceeding any further.

Attach the Angle Brackets

- Place and center the stainless-steel angle brackets onto the bottom supports so that their back sides are flush with the back ends of the outside supports.
- Mark the center of each of the angle bracket's screw holes.
- Pre-drill the screw holes with a 1/8" drill bit and countersink.
- Attach the angle brackets to the bottom supports with 3/4" #12 stainless-steel Phillips oval-head screws.

Attach the Bowl Holder to the Dog House

- Work with a helper to support the dish holder against the dog house at a height that's comfortable for your dog.

Tip: For short dogs, you may need to use a hacksaw to cut up to half of the length off the vertical legs of the angle brackets.

- Make sure the bowl holder is level.
- Mark through the angle bracket mounting hole locations and onto the dog house.
- At each mark on the dog house, drill a 1/4" hole through its surface.
- From outside the dog house, insert the 1/4" x 1-1/2" stainless-steel bolts through the angle bracket holes and the matching holes in the dog house.
- From inside the dog house, secure each bolt with a 1/4" galvanized washer and a 1/4" #20 galvanized hex nut.

