

DAUBENMIRE FRAME INSTRUCTIONS

Daubenmire frames can be made from PVC, rebar, wood, or other sturdy materials as the frames will be tossed around so durability is important. The frames are used to collect data for monitoring sites.

Materials and Supplies to build a PVC Frame:

- 1, 1/2" PVC pipe, comes in 10 ft lengths. A 10 ft length can make 2 frames with 1 ft extra
- 4, 90-degree PVC elbows, 1 for each corner of the frame
- PVC cement (colored or not)
- PVC cleaner (no color is better)
- Painter's masking tape, 2" or 1.88" width
- Colored spray paint (bright colors recommended)
- Utility knife/razor blade
- Tape measure/ruler
- Pencil
- Hacksaw

When frames are constructed, the **inside** dimensions should be 19 11/16 inches (50 cm) by 7 7/8 inches (20 cm) you need to account for the length of connectors (elbows). **TIPS:** Measure twice; cut once. Don't glue anything until measurements are checked once all materials are all cut.

Cut lengths for PVC Frames:

- Cut 2 lengths of PVC at 19 1/4" for the 19 11/16" (50 cm) long sides
- Cut 2 lengths of PVC at 7 11/16" for the 7 7/8" (20 cm) short sides

Once all pieces are cut, assemble the cut lengths as follows:

1. Attach a short length and a long length using a 90-degree elbow.
2. Repeat this to get a rectangle as shown in the diagram on page 2.
3. Once assembled, check inside dimensions. Tweak if needed.
4. If dimensions are correct, use the PVC cleaner to clean the ends that will be glued. This can be done to all pieces at once.
5. Apply PVC glue to one end (no more than 1/2") and slide end into elbow. Glue dries quickly so make sure fit is tight.
6. Check dimensions, if correct proceed to next step.
7. Go to the opposite end and repeat steps 5 and 6 until you have a frame that looks like the construction diagram.

When the frame is all glued, it is time to prep the frame for painting.

1. Use the painter's masking tape and cover the top of the frame with the tape.
2. On a long side measure from the inside corner of the frame 4 15/16" and, using a pencil, mark a line on the tape. From that line measure another 4 15/16" and mark a line and repeat once more. Repeat this process for the other long side.

TIP: Mark the sections you want painted with an "X" as this will be helpful when completing step 4.

3. On one corner measure 2 13/16" from inside edge and mark a line on the short side and then on the long side. This will only be done to one corner.

TIP: Mark the sections you want painted with an "X" as this will be helpful when completing step 4.

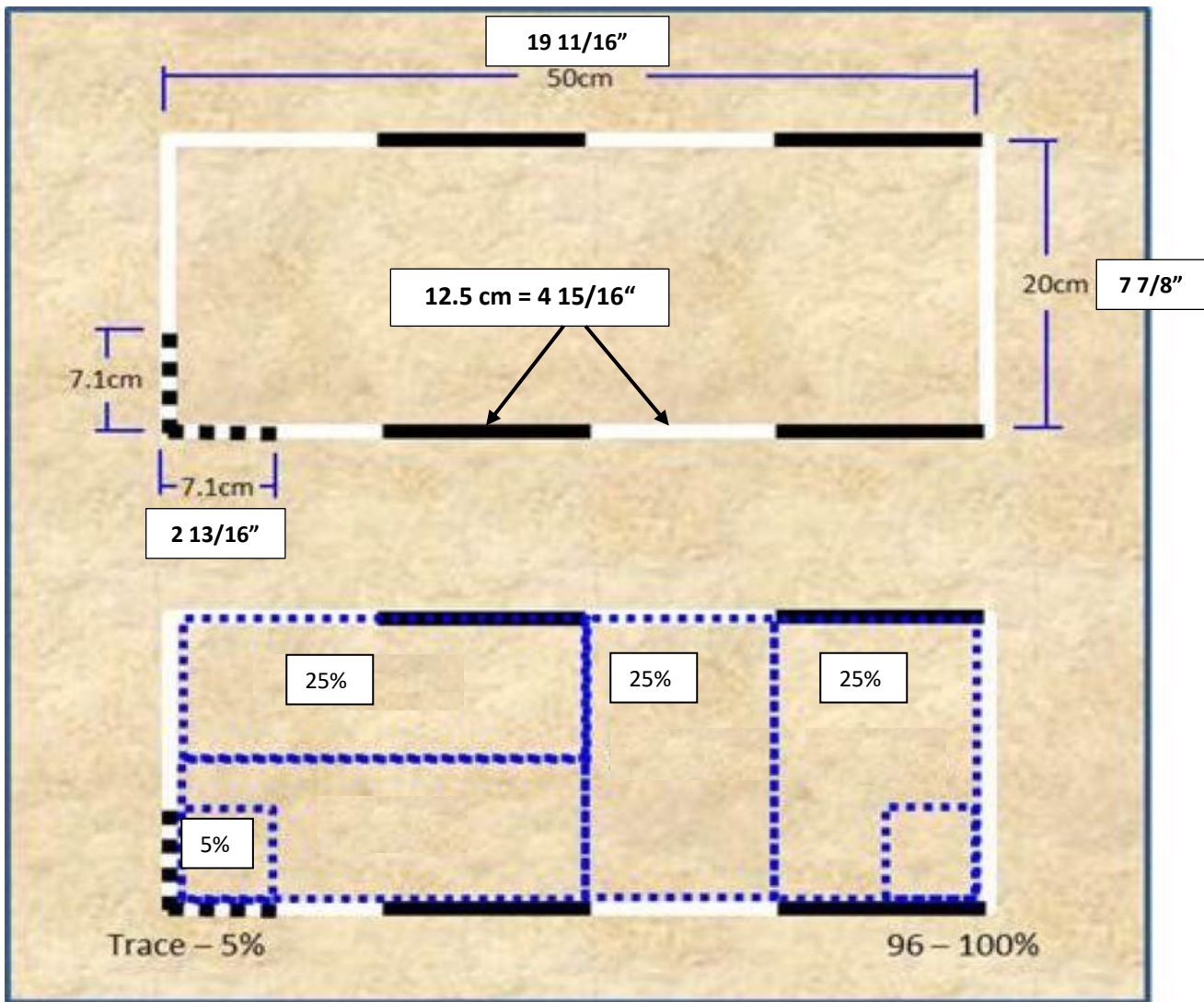
4. Use razor/utility knife to cut the tape on the lines of the sections marked with an "X" in step 2 and 3.
5. Remove the tape from the sections with an "X" as these will be painted. Complete till the PVC exposed on these sections.

TIP: Keep the removed piece of tape to use on the un-taped (bottom) side the frame opposite the remaining taped areas.

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6. Check the "Construction Diagram" to make sure the taped (white) and un-taped (black) sections match. If not repeat steps 2-4. If it matches proceed to next step.
7. Paint the exposed PVC using the can of spray paint. Make sure to get all the sides.
8. Let dry, and the frame is ready to use.

CONSTRUCTION DIAGRAM:



Black: Painted area

White: Has no color or is left unpainted.