

FOLDUP WALL-MOUNTED CLOTHESLINE



IN USE



STORED

PURPOSE

The clothesline was designed to mount on an 8' wall for drying towels and bathing suits. It may be mounted on a fence or a house or shed. It folds flat against the wall and out of the way when not needed. Its three lines provide about 22-feet of drying line. We used plastic covered wire line but any rope or line up to 1/4-inch will work as well. The finished clothesline may be easily disassembled for transport in a car trunk or a pickup bed.

MATERIALS

| QTY | ITEM | DETAILS |
|---------|--|--|
| 2 | 3/4-inch EMT (Electrical Metallic Tubing) | 10-foot length, galvanized steel |
| 2 | 3/4-inch EMT screw couplings | Cast Zinc |
| 4 | 3/4-inch pipe two-hole clamps | Size for 3/4" galvanized pipe |
| 1 | 3/4-inch wood dowel | 3-foot length |
| 2 | 3/4-inch broom clips | Gibson #225L |
| 10 | #10 x 3/4 Phillips sheet metal screws | For mounting to wall |
| 6 | #10 eyebolts | Shank must be at least 1 1/4-inches long |
| 6 | #10 nylon stopnuts | To fit eyebolts |
| 4-Feet | Light Chain | Chain opening to fit over #10 bolt |
| 25-feet | Clothesline | Plastic covered wire |

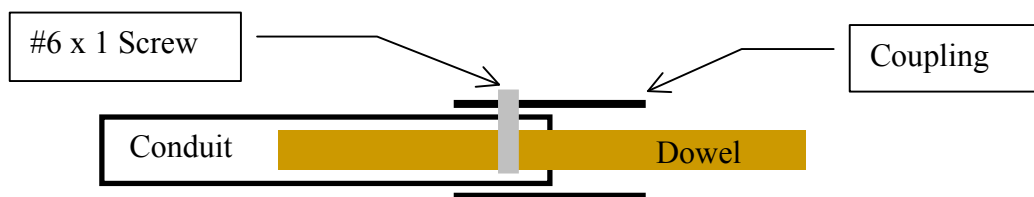
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TOOLS REQUIRED

| TOOL | NOTES |
|---|--|
| 3/4-inch Conduit Bender | With 6-inch radius bend |
| Medium Marking Pen | For marking EMT |
| Tape Measure or Ruler | |
| Wood saw or hacksaw | For cutting dowel |
| Two pliers (one needlenose) | For sizing chain and stringing clothesline |
| #2 Philips Screwdriver (hand or cordless) | |
| 3/8-inch Nutdriver | For nuts on eyebolts |
| Center Punch and Hammer | For mild steel EMT |
| Drill Motor (AC or cordless) | |
| 1/8-inch Drill Bit | For mild steel EMT |
| 3/16-inch Drill Bit | For mild steel EMT |

CLOTHESLINE FABRICATION

1. Take two (2) 10-foot lengths of EMT, cut off 8-inches from each, and mark the center of each 112-inch piece. Also, mark 8-inches each side of center on each.
2. Using a 3/4-inch conduit bender (mine has a bend radius of 6-inches) place the arrow at the '8-inch off center' mark on each conduit and bend 90-degrees so the leg formed is 14-inches from the center mark (8-inches plus the conduit bend radius). Do the same with the other side to form a U-shape close to 28-inches wide and 44.5 inches long, and with corners as close to 90-degrees as possible.
3. The two U-shaped conduit pieces are joined using dowels inside the conduit and couplings outside the conduit to make a stiff joint (EMT couplings are not designed for strength). Refer to the drawing below for the interrelationship of these parts. Lean one of the U-shapes close against a vertical wall with the legs of the U horizontal. Cut the 3/4-inch dowel in half. Place one 18-inch dowel half way into one open leg of the U and the other 18-inch dowel half way into the other leg of the same U.



4. Remove and discard the two setscrews from each conduit coupling. Place one conduit coupling over each dowel and conduit end. Rotate the couplings so the screw holes point toward each other (same plane as the U-shape). Butt the coupling against the end of the conduit. Position a 1/8-inch drill bit in the lower coupling setscrew hole and drill through the conduit wall and the dowel, but NOT through the opposite conduit wall. Insert a #6 x 1-inch sheet metal screw into this hole and screw down tight. Turn the U-section upside down and repeat this for the other leg of the U. Bring the legs of the second U-shape over the dowels and fully into the couplings. Similarly drill and screw tight with #6 x 1-inch sheet metal screws. The finished rectangle will be very close to 28-inches by 90-inches.
5. Choose the number and spacing of the clotheslines. The following directions are for three (3) equally spaced clotheslines. Using the existing center marks (on the 28-inch center portion of each U) mark 8-inches either side of center on both pieces. Drill a 3/16-inch hole in 6 places (3 each end) parallel to the long side of the rectangle for the eyebolts that will hold the clothesline. All drilled edges should be filed smooth.
6. Insert the six (6) eyebolts through the holes drilled above. Using a 3/8-inch Nutdriver, fasten with the six (6) stopnuts so the eyebolt shank just protrudes from the stopnut. The eyebolt will be loose and can swivel in the conduit.
7. String each of the three clotheslines through one eyebolt and wrap around itself for holding it. I put each end of the line through the eyebolt twice and twisted it around the line at least three times. Stretch the line tight and fasten the other end in the same way. The stopnuts may be screwed tighter on the eyebolts to tighten the clotheslines.



WALL MOUNTING

1. At about a 6-foot height on the wall where the clotheline will be, locate where the center of the clothesline should be. Mount two broom clips, about 12 to 18-inches left and right of center and at the 6-foot height. Hang one long side of the clothesline in these clips, centered in the clips.
2. The rectangular clothesline is hinged to the wall using standard two-hole clamps for 3/4-inch galvanized pipe- these are just a bit larger (and looser) than EMT clamps. Four are used on the lower (pivot) side of the rectangle. Place two clamps on either side of the conduit coupling on the lower long side of the rectangle, and screw to the wall. Place two more clamps near the left and right ends of the rectangle and screw to the wall.
3. Prepare two 2-foot lengths of chain. One at a time, remove the highest eyebolt from the rectangle, put one end of a 2-foot chain over it and replace in the rectangle (see photo). Repeat for the other end of this line with the second chain.
4. Grasp the top edge of the rectangle and pull forward out of the clips. Verify that the clothesline hinges smoothly in the clamps. Lower the rectangle to about a 45-degree angle and hold with your knee or a helper. One at a time, stretch out the chains and attach securely to the wall to hold the clothesline at the desired angle.