

Non-Penetrating Roof Mount

1.2 Meter Offset Satellite Dish

By

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Bill of Materials:

One 2" X 8" X 8' Pressure Treated Pine Board.

One 10' long X 1/2" EMT conduit.

Two 3" Stanley Angle Brackets.

Four 3" SS Hose Clamps.

Six # 8 by 1 1/2" Countersunk Phillips Head Sheet Metal Screws.

Four #8 by 1 1/2" Panhead Phillips Sheet Metal Screws.

Four #8 by 3/4" Panhead Phillips Head Sheet Metal Screws.

3' length of Chain Link Corner Post 2 5/16" OD.

Tools:

Circular Saw, Electric Drill, Drill Bits, Power Screwdriver with 5/16" Hex Socket, Tape Measure and Jiffy Square.



Picture of finished project.

Step 1- Cut 2 X 8 X 8 in half and mark center of length, 24"

Step 2- Overlay the other piece at the center mark to mark perpendicular cuts.



Step 3 – With Jiffy Square mark off $\frac{1}{4}$ " marks.

Step 4 – With circular set to $\frac{1}{2}$ the board thickness make Kurf cuts.

Step 5 – With chisel pry out and true up joint.



Step 6 – Repeat this process with the other piece. Dry fit and adjust as needed.



Step 7 – Secure the joint with 6 #8 X 1 ½” countersunk Screws.

Step 8 – Stand Mast pole in center and secure angle brackets with # 8 X 3/4”.

Step 9 – Place two 3” SS hose clamps over mast and tighten.



Step 10 – Cut 10’ conduit into four 30” lengths. Flatten ends in vise or with hammer. Secure with two 3” SS hose clamps.

Step 11 – disassemble and move pieces to installation site.



Step 12 – Re-assemble and plumb mast with Torpedo level. Install dish.



Step 14 – Place concrete rounds on each leg.