

**Parts List**

- One (1): 3'x12' GalvAlum Metal Roofing Section; Lowes P/N 96189
- Three (3): 2"x4"x32" lumber stock
- Twelve (12): #6 x 7/8 Binding Head Machine screws
- As Required: 3/16" Synthetic Clothesline Rope; Lowes P/N 91156

**Tools Required**

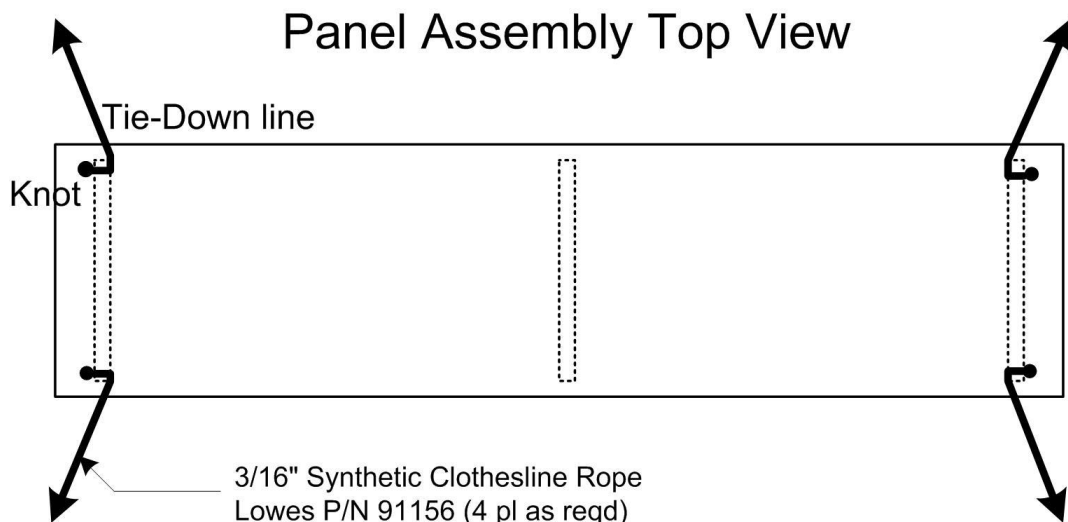
- Saw as required to cut the three 2"x4"x32" lumber for undermount pedestals
- Screw driver as required to fasten the twelve #6x7/8 BH machine screws to the roofing section

**Safety Issues**

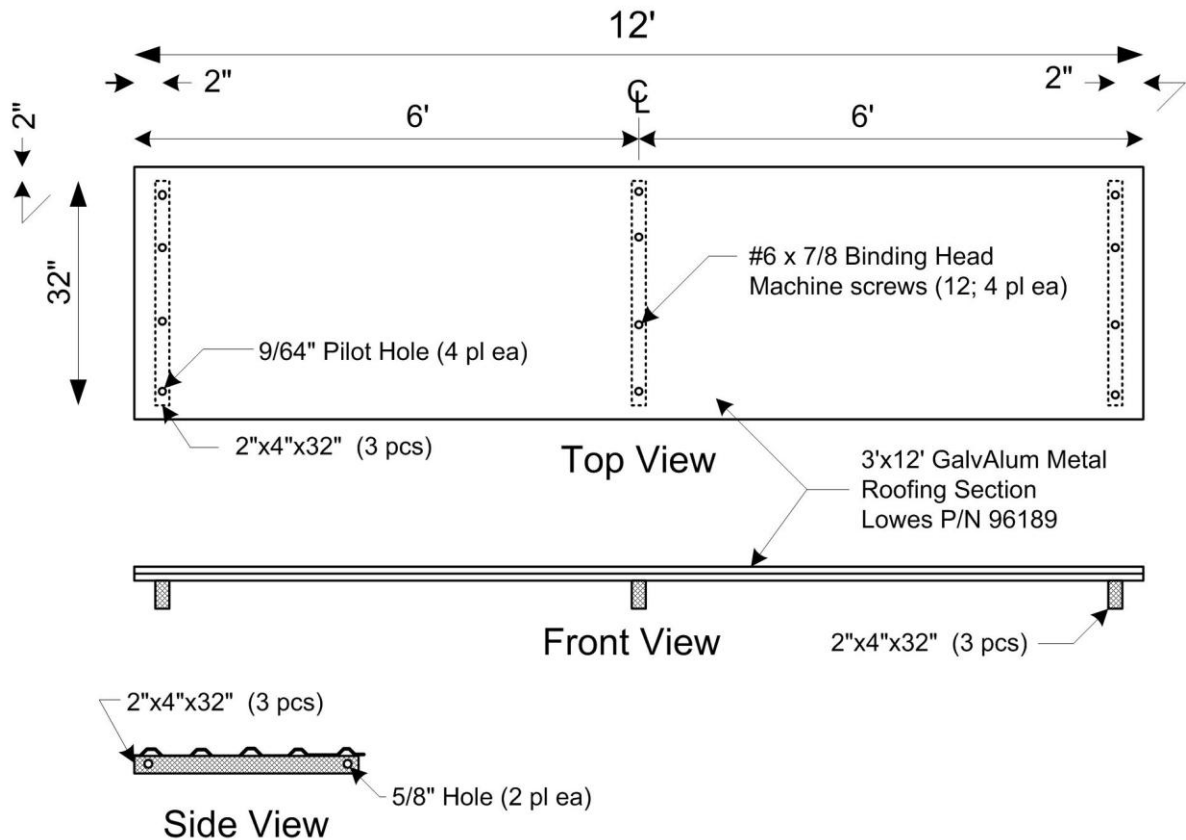
- Wear safety goggles at all times when sawing or drilling
- Wear moderate to heavy duty hand gloves at all times when handling the metal roofing section
- Do not transport the metal roofing section without securing it with a rope or other rigging that has at least two tie-points
- Do not mount the metal roofing section without the three 2"x4"x32" undermount pedestals

**Preparation**

- Select the roof area where the heat shield panel assembly will be placed
- Do all drilling and final assembly on the ground before moving the completed assembly to the roof
- Insure that there are four tie points that will be used to secure each corner of the heat shield panel assembly, using the diagram below as a guideline



## Reference Assembly Drawing



## Panel Assembly Procedure

1. Cut 2"x4" lumber stock as required to make three pedestal pieces, each 32" long
2. Drill 5/8" hole at each end of the each 32" pedestal piece, two inches in from the end and center with the length (see *Side View* drawing, above)
3. Position each 2"x4"x32" piece under the metal roofing section according to *Top View* drawing, above
4. Drill four 9/64" pilot holes through the metal roofing section to each respective pedestal piece, spaced equally and within a flat area of the roofing section
5. Attach the three pedestal pieces to the underside of the metal roofing section using #6x7/8" binding head machine screws

**Mounting Procedure**

1. Cut tie-down lines as required for each corner of the panel assembly. **DO NOT INSTALL THE LINES INTO THE PEDESTAL PIECES**
2. Wrap each cut end with masking tape to ease handling and threading the ends through the 5/8" holes in the pedestal pieces
3. Tie at least three closed knots on the end of each line, and cut away any excess line remaining after the larger knot is tightened
4. Place each line on the roof convenient to where the panel assembly will be positioned
5. Using gloves, additional help and due safety precautions, place the completed panel assembly on the roof, with the pedestal sections down, up or above panel's final position
6. Insert the four tie-down lines through the pedestal section on each corner of the panel assembly, and pull them through until the knot is against the section's outside surface (see *Side View* drawing, above)
7. Carefully position the panel assembly to its final position
8. Secure the lower two tie-down lines
9. Evenly take up the slack on the two upper tie-down lines, and then secure them

**Example Photos**

[www.futurewaredc.com/fwsweblog/index.php/2008/07/13/potpouri/beat-the-heat-roof-sun-shield](http://www.futurewaredc.com/fwsweblog/index.php/2008/07/13/potpouri/beat-the-heat-roof-sun-shield)