

## **Installation Guide for the Luminous 360 Perimeter Angle**

Please read through all the instruction packet before beginning. If the bulkhead does not provide ample attachment for the two ledger blocks in Step 2 of "Installation Guide for the Luminous 360 Perimeter Angle", then call The Sky Factory for "Installation Guide for the Luminous 360 Perimeter Angle Option: Multiple Ledger Application".

Concept: A jig which will help locate the perimeter angle sections both in their proper arc and in their relation to the existing rough opening. The jig consists of a "fixed" arm and a "pivot" arm. The "fixed" arm of the jig sits above the "pivot" arm, allowing the "pivot" arm to rotate 360 degrees and thereby locate the perimeter angle.

### Step 1: Build the Jig

Out of two straight and flat pieces of pine, make two arms  $3/4''$  by  $3 1/2''$  by the diameter of the SkyCeiling minus  $1/8''$ . (See Grid Plan G-1). Dog-ear the ends of both arms 10 degrees to the center point of the  $3 1/2''$  width. Join the two arms at the center (equidistant from the ends and from the sides) using a  $1/4''$  bolt and washers so that the arms move snugly in relation to one another. See Diagram A.

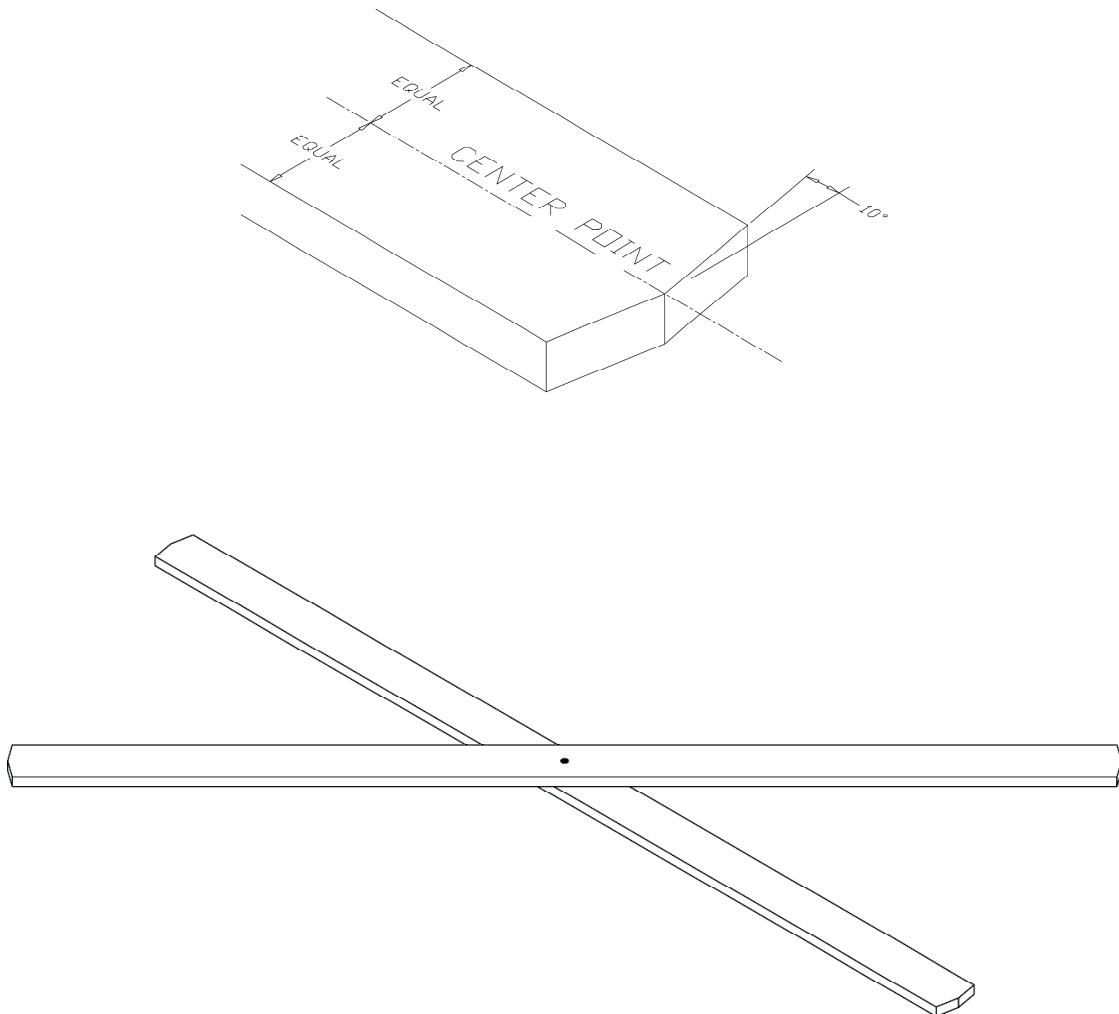


Diagram A

### Step 1: Build the Jig (Cont'd)

Attach the  $\frac{3}{4}$ " by  $2\frac{3}{16}$ " block provided by The Sky Factory to the end of one of the arms as shown in Diagram A. Make sure the block is:

- a) centered on the arm's width ( $1\frac{3}{4}$ " from each side for a  $3\frac{1}{2}$ " arm) and
- b) the distance between the pointer on the block and the pivot point (where the bolt sits) must be the radius of the SkyCeiling minus  $\frac{1}{16}$ ".**

The arm with the block attached will now be the "pivot" arm. The other arm will be the "fixed" arm. See Diagram B.

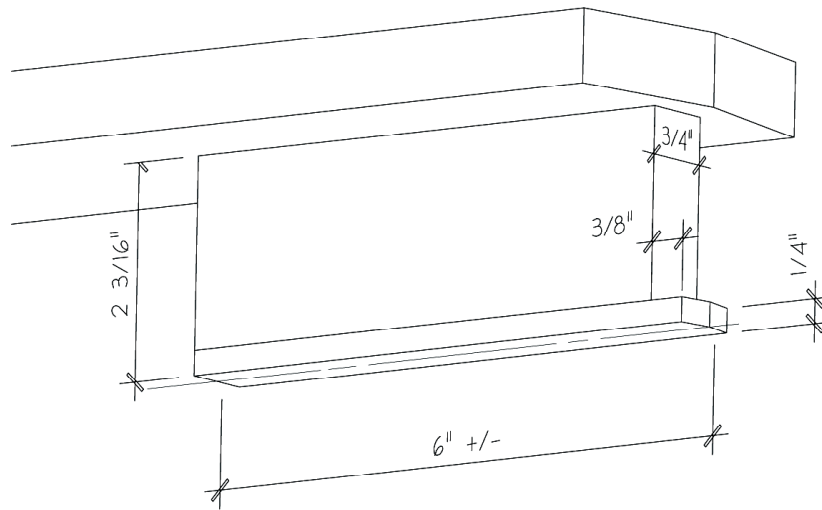


Diagram B

## Step 2: Install the Jig

Install two ledger blocks so that the bottom of each ledger sits  $3 \frac{3}{4}$ " above the finished height of the bottom of the perimeter angle. The blocks should be 180 degrees opposed. Screw the "fixed" arm of the jig up into the bottom of the ledger blocks so that the center points of the arm are 180 degrees opposed and the ends of the arm are equidistant from the rough opening. The "pivot" arm is then free to rotate 360 degrees. Check the existing rough opening in several locations with the "pivot" arm to make sure the jig is centered in the opening. See Diagram C.

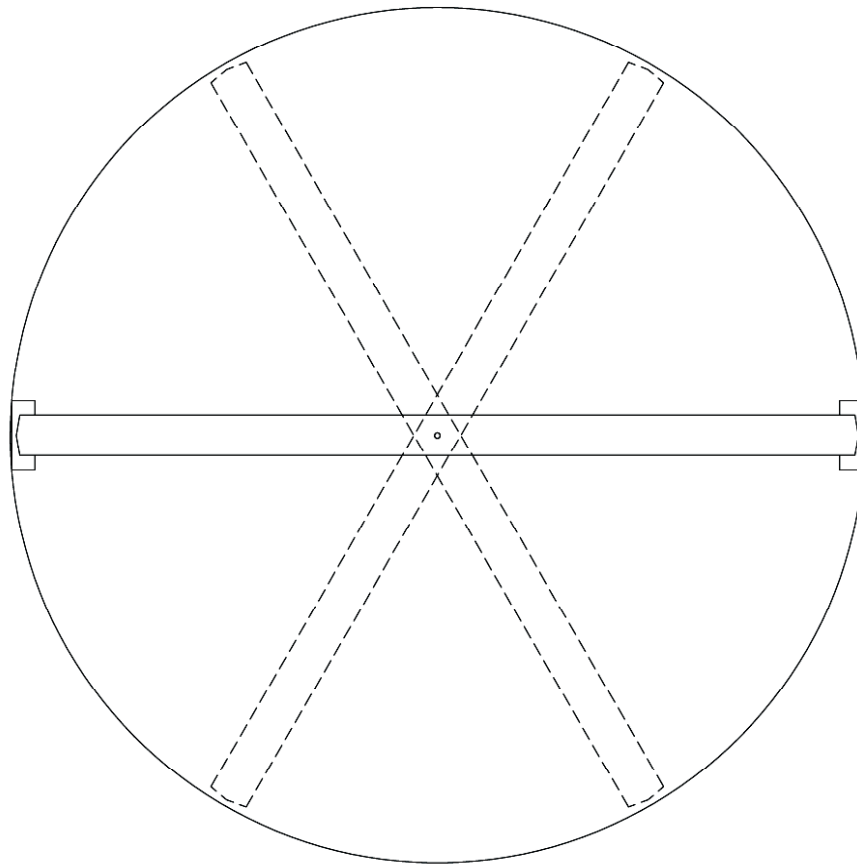
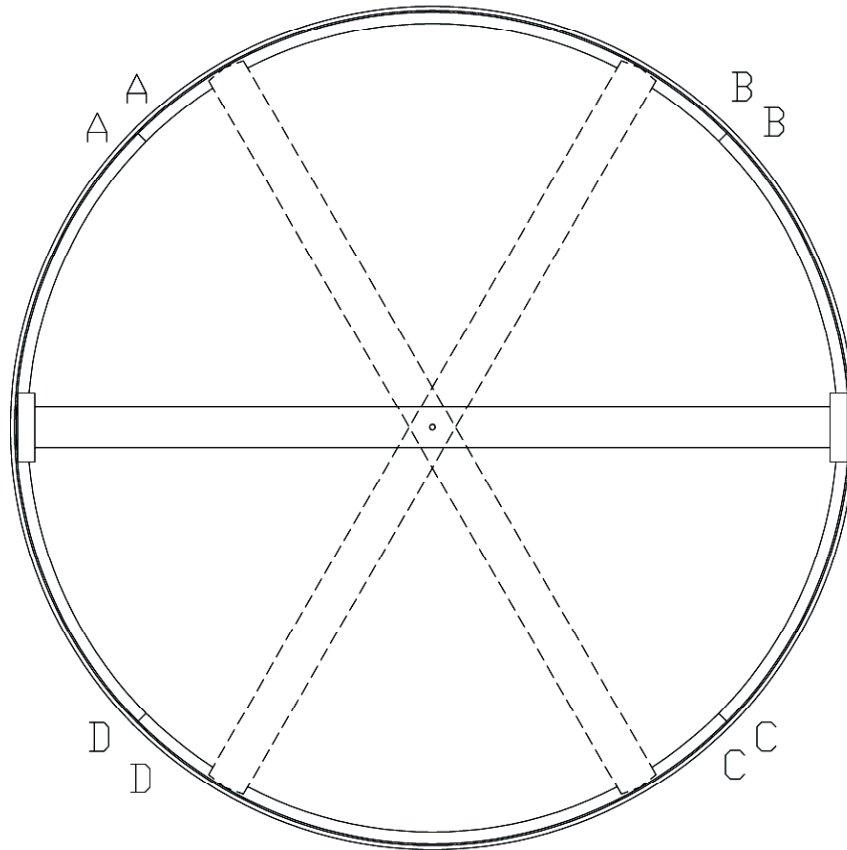


Diagram C

### Step 3: Install the perimeter angle

Install the perimeter angle sections, matching the ends A to A, etc.. When installing the first section of perimeter angle, always work either from one end to the other or from the center out to both ends. Attaching both ends before locating the middle will form a "bubble" in the arc. When attaching the second, third, etc., begin with an end butting a previously installed section, and proceed incrementally from there. Screws should be placed every 3", 3/4" above the horizontal leg of the perimeter angle, and the perimeter angle should be pre-drilled as it may crack otherwise. The perimeter angle should be shimmed at each screw to fit against the pointer of the pivot arm. See Diagram D.



## Diagram D

### **Step 3: Install the perimeter angle (Cont'd)**

If a small gap or overlap occurs (plus or minus 1/8") at the final junction of the perimeter angles, ease the screws off (or tighten as necessary) and re-shim, tapering the adjustment back approximately four feet on either side of the joint.

**Do not cut the perimeter angle! It will change the diameter of the circle!**

If a larger gap or overlap occurs, taper the adjustment back to within a few inches of the preceding joint on either side.

For technical support, please call us toll free at 866-759-3228. We want your installation to go as smoothly as possible. Thank you for choosing The Sky Factory.