

Installation Guide for the Elliptical Perimeter Angle with a 3/4" Framing Plate

For technical support at any time during the installation, 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.

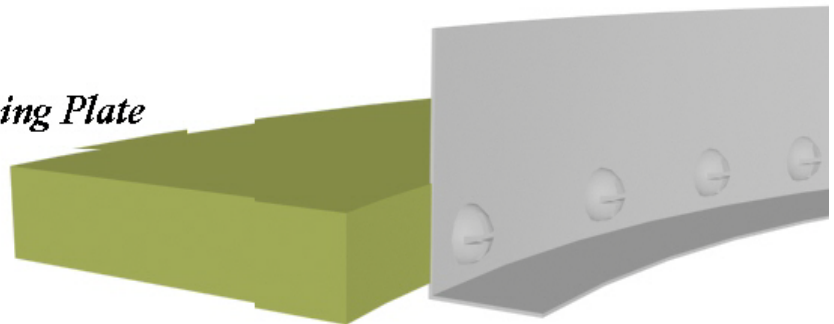
Please read through the entire instruction packet before beginning.

IMPORTANT:

The Curved Perimeter Angle comes attached to the Framing Plate. **DO NOT REMOVE THE PERIMETER ANGLE FROM THE PLATE.**

Framing Plate

Curved Perimeter Angle



Curved Perimeter Angle Assembly

Step 1: Verify Plenum Dimensions

Verify the following conditions:

1. Verify plenum finish opening with Grid Plan GR1. If they do not match, do not install the SkyCeiling and contact The Sky Factory at 866-759-3288. We will help you find the best solution.
2. Verify the depth of the plenum with Grid Plan GR1 and Grid Detail DE1 or DE2. The plenum depth has been specially designed to maximize lighting. An improper depth will give you a light burnout on your images.

Step 2: Unpacking the Curved Perimeter Assembly

The Curved Perimeter Assembly is a pre-formed perimeter angle attached to a 3 1/2" framing plate. The perimeter angle has been divided into arcs, and each arc is attached to its own plate. The assembly as a whole has been pre-assembled in the factory and then knocked down for shipment.

The bottom face of the perimeter angle has been painted to match Armstrong grid and care should be taken that the bottom face of the perimeter angle is not damaged during unpacking and re-assembly. If touch-up is needed, use Armstrong Grid Touch-Up Paint, White.

The separate perimeter arcs are packaged in like pairs. Plywood has been attached to the outside of each assembly pair for shipping. Remove the plywood before unwrapping the pairs. Then remove the shrink wrap but:

DO NOT REMOVE ANY OF THE BLOCKING OR CROSS-BRACING.

The blocks on the top and bottom of the plate protect the perimeter during re-assembly.

The cross-bracing maintains the proper proportion of the ellipse, and THE PLATES MAY DISTORT IF REMOVED PRIOR TO INSTALLATION.

The cross-bracing and blocks are installed so they may be easily removed.

The perimeter arc pairs are screwed together by their bracing. Remove the screws but **DO NOT REMOVE THE BRACING**. The separate arcs are now ready for re-assembly.

Step 3: Re-Assembling the Curved Perimeter Assembly

1. To re-assemble the arcs, arrange them upside down on the floor (bottom up) matching the labels Gusset A to Gusset A, Gusset B to Gusset B, etc. The small arcs have both gussets pre-attached.
2. Being careful not to damage the ends of the perimeter angle, slide the ends of the framing plates together. The gusset locations have been outlined.
3. Re-attach the gussets using the pan head screws provided in the pre-set holes.
 - a. Occasionally during the manufacturing process, a screw will have to be moved. If multiple screw holes exist, the circled holes ("O") are to be used and the crossed out holes ("X") are not.

4. Once the gussets on the bottom are re-attached, re-attach the overlap of the perimeter angle by gently seating the washer head screws provided in the pre-existing holes.
 - a. Some shimming may be required to keep the bottom faces of the perimeter angle in the same plane.
5. At this point, check the short axis and long axis of the assembly with Perimeter Drawing PE1.
 - b. The dimensions of the perimeter assembly should match or be slightly smaller than the specifications on PE1.
 - c. If they don't, please double check your assembly process to be sure all the ends match and the gussets are appropriately placed.
 - d. If the assembly still does not match the specifications, do not proceed and please call us for technical support toll free at 866-759-3228.
6. If the dimensions match, then proceed by **GENTLY** turning the assembled ellipse over.

CARE MUST BE TAKEN THAT THE ASSEMBLY IS NOT OVERLY BENT OR STRESSED WHEN RAISING AND TURNING.

Once the assembly has been turned over, remove the blocks on the top of the plates. If the soffit allows for the gussets on the top of the plates, they can be re-attached now. If the soffit does not allow for the top gussets, then they can be removed before attaching the perimeter assembly to the soffit.

IF THE TOP GUSSETS HAVE TO BE REMOVED:

**THE CURVED PERIMETER ASSEMBLY WILL BE MUCH LESS RIGID
AND THEREFORE EXTRA CARE MUST BE TAKEN WHEN LIFTING UP
AND ATTACHING IT TO THE SOFFIT.**

Step 4: Installing the Curved Perimeter Assembly

1. Locate the points of the short axis and long axis on the face of the soffit.
 - a. These two axes must be perpendicular to each other.
2. When lifting the Perimeter Assembly into place:

CARE MUST BE TAKEN THAT THE ASSEMBLY IS RAISED WITHOUT BENDING OR STRESSING
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3. Attach the Perimeter Assembly to the bottom face of the existing soffit, making sure the short axis and long axis of the ellipse line up with the short axis and long axis of the existing opening. Shims should be used to ensure that the Assembly is level.
4. Once the whole assembly is installed, cross-bracing, blocks and gussets on the bottom of the plates can be removed.

If necessary, once the assembly is firmly in place, the perimeter angle may be removed. If it is removed:

1. Be sure to mark each section appropriately so the perimeter angle will go back in exactly the same configuration.
2. Please note any extra screw holes made during the manufacturing process that are no longer being used. Clearly mark them so they won't be used when re-installing the perimeter angle.
3. **CAUTION:** The perimeter angle by itself is very floppy. If it must be removed, **CARE SHOULD BE TAKEN NOT TO KINK IT** during removal and re-installation.