



External Ground Plane

Applies to PEAR™ S5491, S5491i

DESCRIPTION:

The optional external ground plane can be placed above the suspended ceiling to improve gain and VSWR performance of the antenna. It is connected to the internal antenna ground plane through the mounting kit which is provided with the antenna.

INSTALLATION STEPS:

STEP 1 - Mark antenna center and mounting holes

Insert threaded rods into the base plate of the antenna (3x).

Place the antenna above the spot where the antenna needs to be installed and mark lightly:

- Three 3/16" or 5.0 mm holes for the threaded rods
- Center of the antenna

STEP 2 - Drill 3/16" holes and center hole

Drill three 3/16" or 5.0 mm holes that were marked in step 1.
Drill or cut out the center hole with a diameter of 3" or 75mm.

STEP 3 - Attach antenna to ceiling

Attach the antenna to the ceiling as shown in detail A.
Use the hardware provided.

STEP 4 - Attach the external ground plane to the ceiling

Attach the external ground plane to the plenum side of the ceiling by either pinning (pins provided) or screwing the aluminium foil to the ceiling.

It is recommended to pin the extended ground plane to the ceiling at the four corners and the center of each edge (see detail B).

