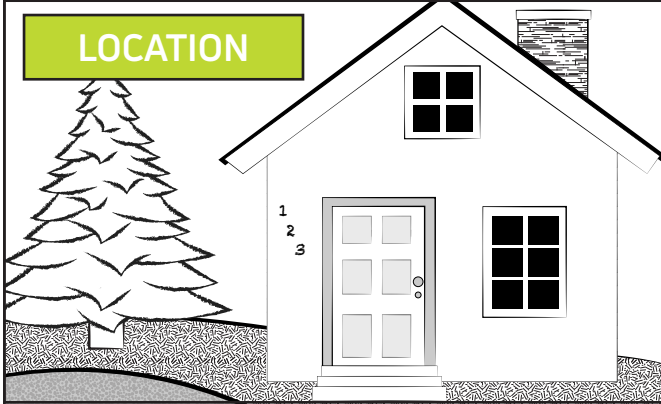


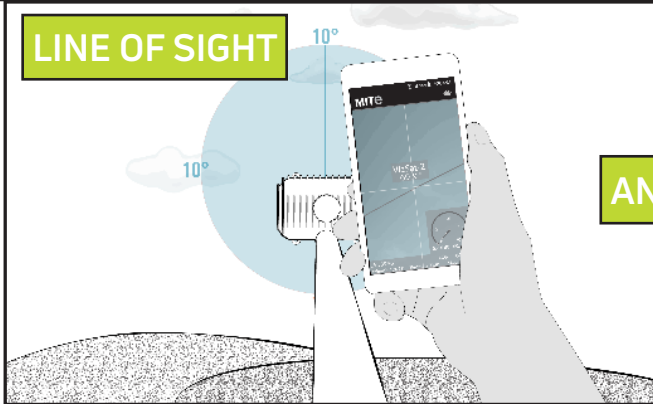
LOCATION / LOS

LOCATION



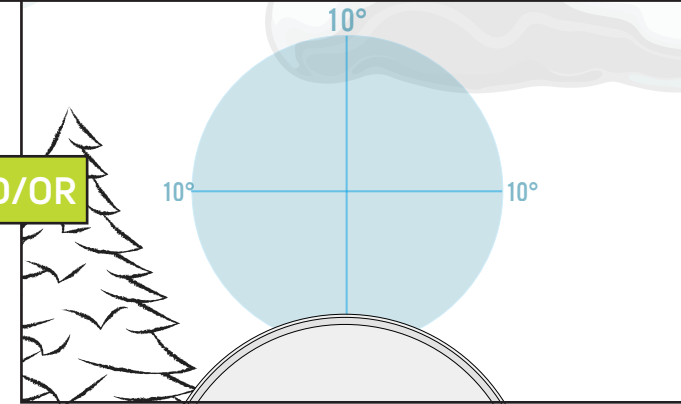
- Show full, frontal view of the home from the street:
 - Show customer's address
 - Show mailbox if necessary
- Do not take pictures of the customer, customer documents, or customer vehicle/license plate

LINE OF SIGHT



- Show a clear view of the southern sky toward the TRIA
- Take at least one photo that shows the line of sight from:
 - Top of the boom arm (where it connects to the reflector) toward the TRIA and/or
 - 1-2 feet behind the antenna reflector

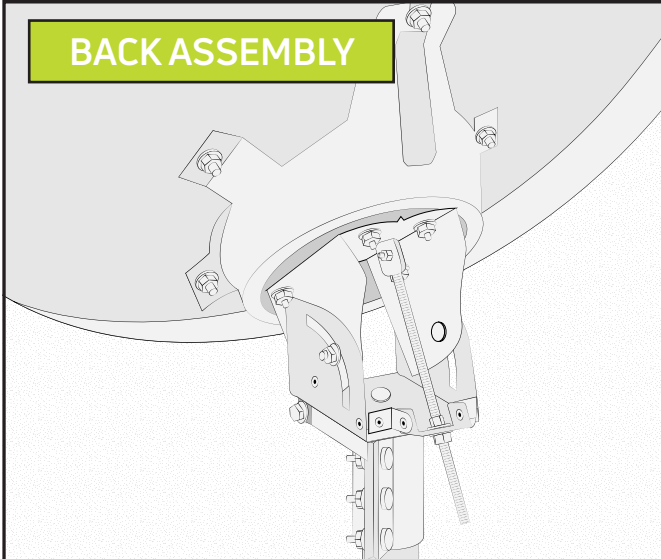
AND/OR



- Line of Sight should be:
 - Clear in all directions by 10 degrees
 - Clear of tree growth, seasonal foliage changes, and future development

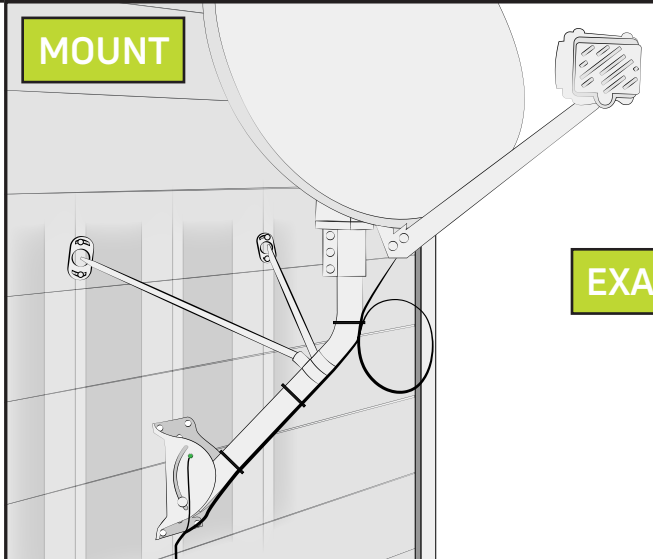
OUTDOOR UNIT (ODU)

BACK ASSEMBLY



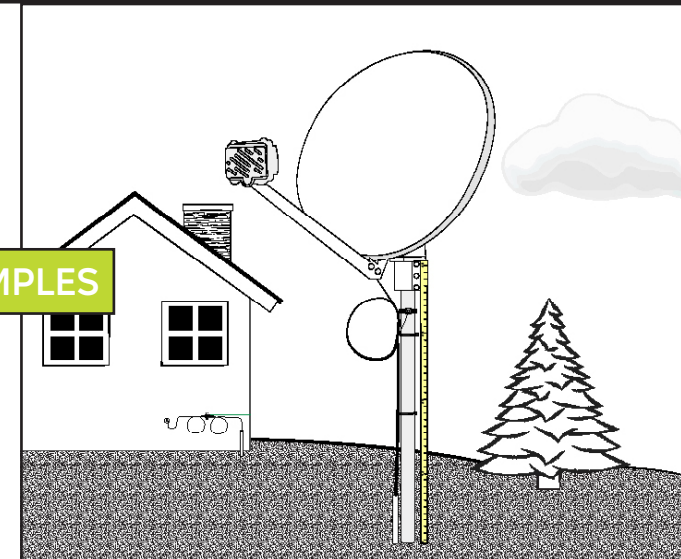
- Show the entire back assembly of the ODU installed:
 - Tighten all nuts and bolts, including collar bolts and elevation rod nuts
 - Use all hardware as designed for assembly
 - Use only approved components (matching reflector, AZ/EL and hardware)
 - Set skew according to the information on the work order

MOUNT



- Show correct installation of one of our approved mounts:
 - Wall / Roof Mount
 - Pole Mount
 - Side "S" Mount
 - Low Profile "Stub" Mount
 - Under Eave Mount
 - Brick Mount
 - Non-Pen Mount

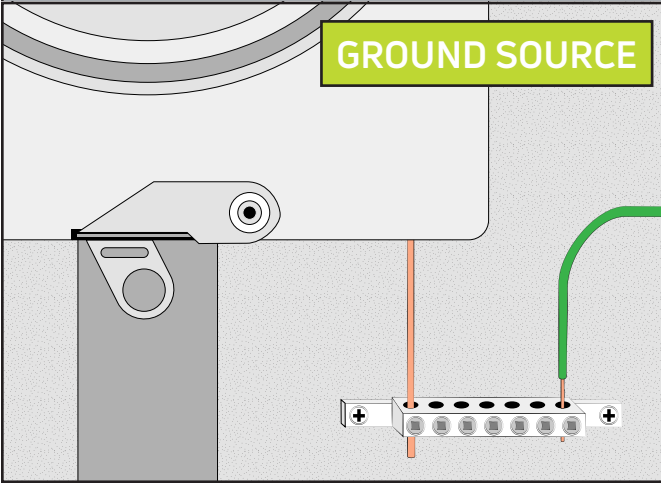
EXAMPLES



Reference "Mount Types" section for specific mount standards

- All information detailed in the mount profile must be visible in the installation photo
- Submit as many pictures as necessary to depict all installation requirements

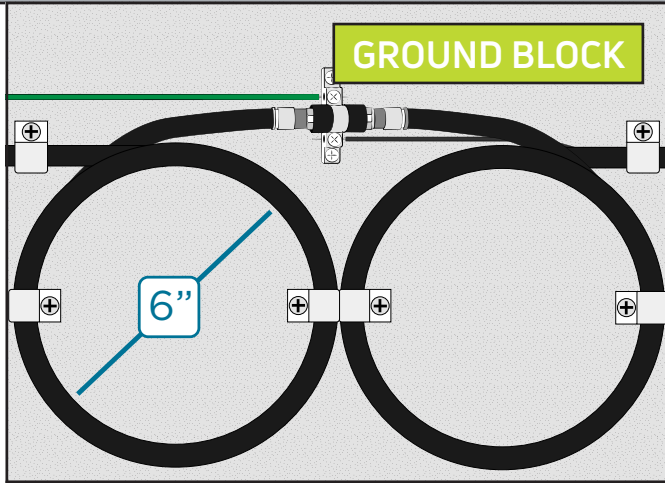
GROUND SOURCE



- Show a UL listed device attached to an NEC-approved ground source
 - IBT (required if present), #6 bare copper wire, back-bonded grounding electrode, metallic raceway, meter box, grounded I-beam, approved main water line
- Use matching metals (ex. copper to copper)
- Do not impede the opening of the meter box door
- Do not share ground sources (Note: each IBT port is an available ground source)
- Scrape paint to allow metal to metal contact

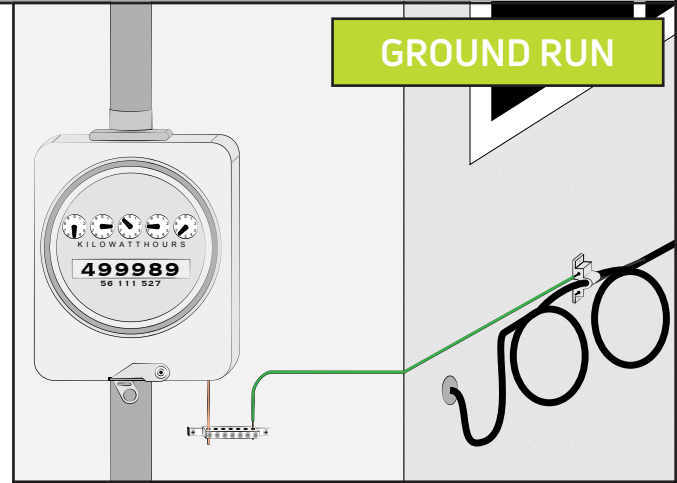
GROUND

GROUND BLOCK



- Show the installation of a UL listed, 3Ghz rated ground block:
 - Install compression connectors, torque to 30 in. lbs.
 - Use weather boots on both sides of the ground block
 - Form 6" diameter service loops
 - Attach ground block directly to structure (2 screws)
 - Run the #10 gauge solid copper ground wire as straight and short as possible, with minimal bends
 - Connect messenger and ground wire to ground block

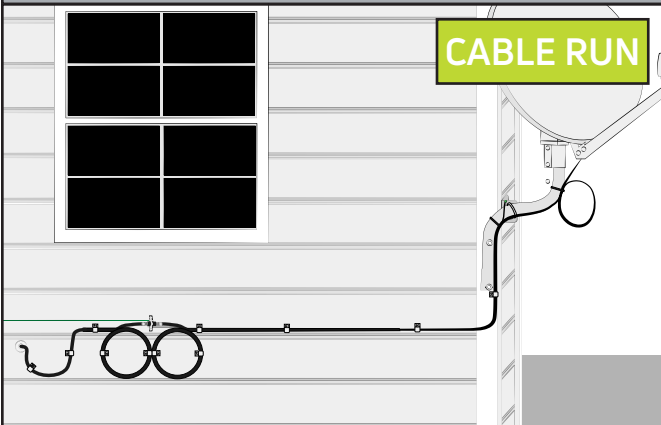
GROUND RUN



- Show the entire run from the ground block to the ground source:
 - Must be less than 20 feet
 - May require multiple photos to demonstrate entire ground run
 - » If multiple photos are necessary, they must visually overlap so the ground run can be followed

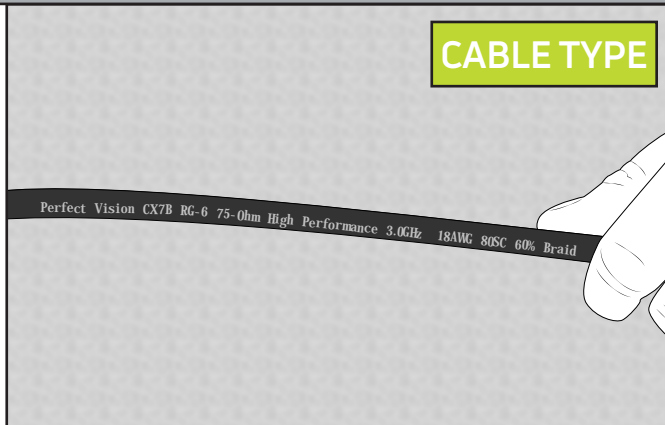
CABLE

CABLE RUN



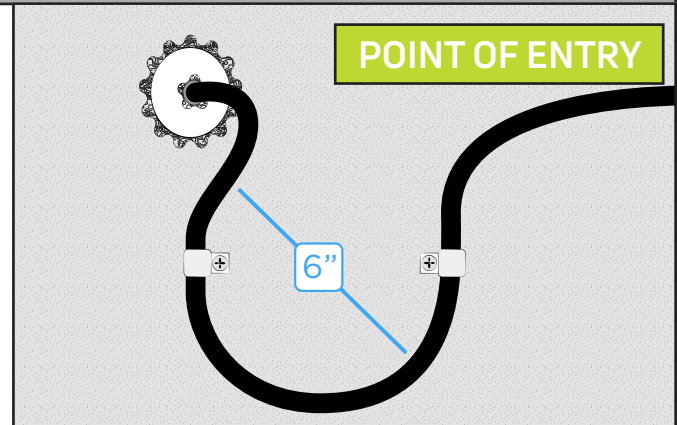
- Show that the cabling:
 - Is <150', neat, and follows the lines of the house
 - Is attached using only screw clips
 - Is continuous and does not use in-line barrels, excluding the ground block and wall plate
 - Never bend the cable to 90 degree angles

CABLE TYPE



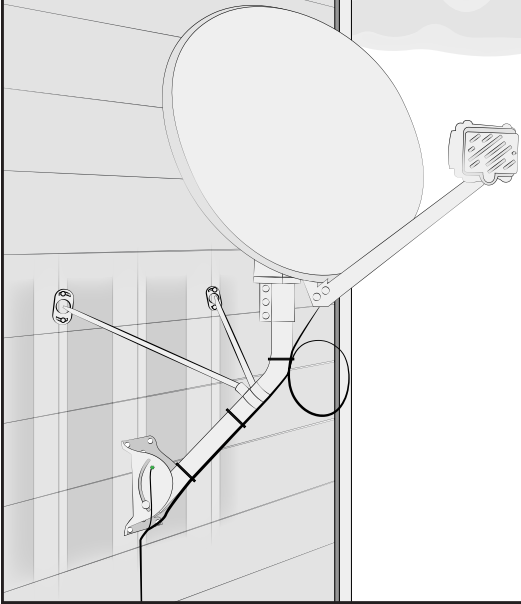
- Show a close-up of cable markings proving:
 - Cable type and model number
 - Solid copper, rated to 3GHz, 75 Ohm, 60% braid
 - Cable is in good condition

POINT OF ENTRY



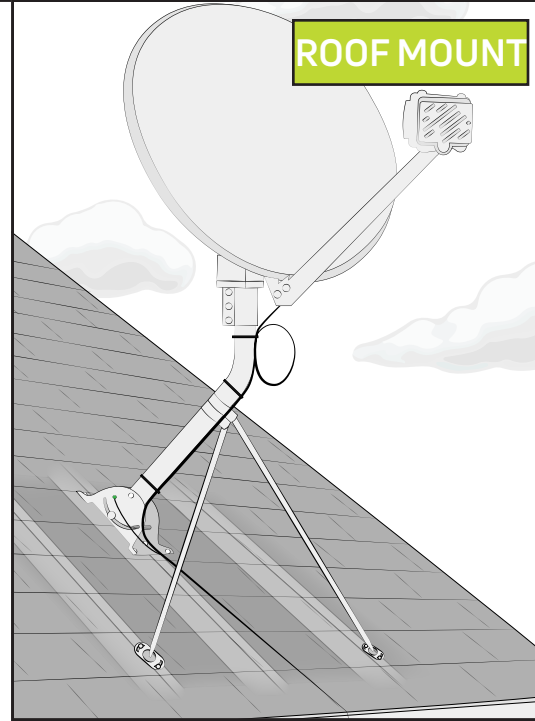
- Show point where cable enters the building:
 - Form a J-loop prior to entry
 - Seal the hole with silicone and an approved bushing
 - Form cable bends with a diameter of at least 6"
 - Use only screw clips to secure the cable
 - Never bend the cable to 90 degree angles

WALL MOUNT



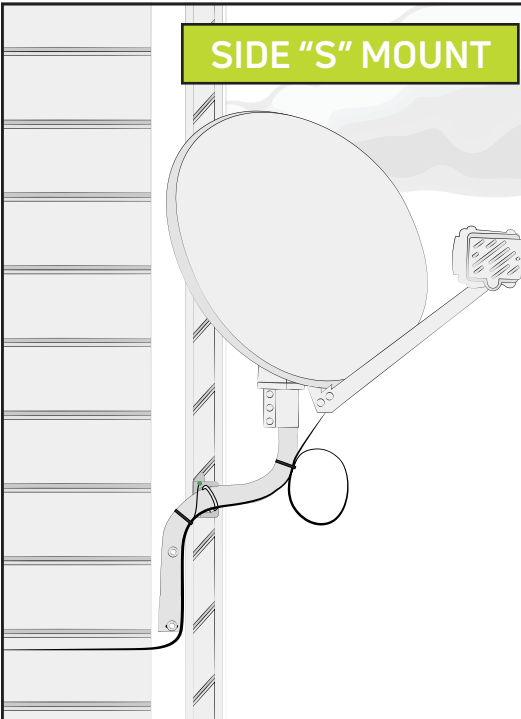
- Attach to an approved, structurally sound surface (wood or composite siding only)
- Mount antenna so that the bottom of the reflector is at least 4' above a walking surface
- ODU is at least 3' from electrical panel and 20' from power lines
- Use only approved and matching ODU hardware
- Secure the footplate to the wall with:
 - Two 3" lags through center holes into stud
 - Four 2" lags through corner holes
- Position monopoles 2" below the bend, at an upward angle, forming a tripod
- Secure monopole plates to adjacent studs using two 3" lags
- Seal all drilled holes with silicone
- Zip-tie cable to the mast, including a 6" diameter service loop
- Connect the messenger/ground wire to a green ground screw on the footplate
- Tighten all hardware completely

ROOF MOUNT



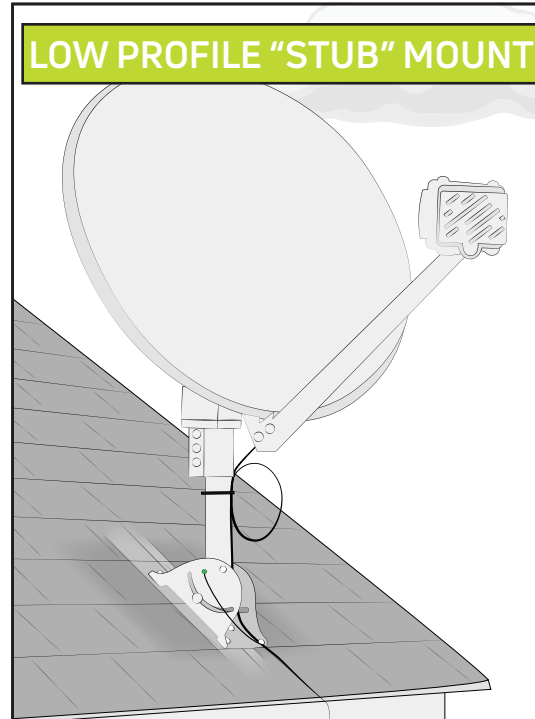
- Attach to an approved, structurally sound surface (asphalt shingles only, sloped roof, close to the roof's edge, ideally not over living space)
- ODU is at least 3' from electrical panel and 20' from overhead power lines
- Use only approved and matching ODU hardware
- Secure the footplate to the roof with:
 - Two 3" lags through center holes into rafter
 - Four 2" lags through corner holes
- Position monopoles 2" below the bend, at a downward angle, forming a tripod
- Secure monopole plates to adjacent rafters using two 3" lags
- Seal all drilled holes with tar-based sealant
- Zip-tie cable to the mast, including a 6" diameter service loop
- Connect the messenger/ground wire to a green ground screw on the footplate
- Tighten all hardware completely

SIDE "S" MOUNT



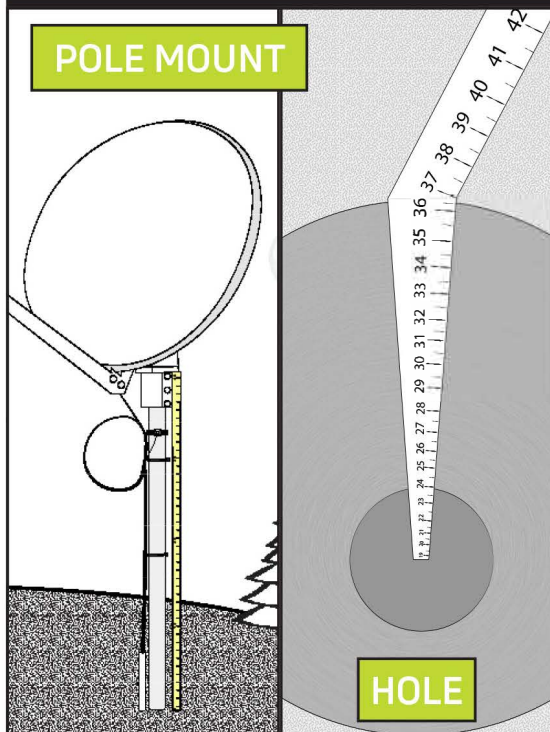
- Attach to an approved, structurally sound surface (wood or composite siding only, southern-facing corner, avoid touching the eave/roof with antenna)
- Mount antenna so that the bottom of the reflector is at least 4' above a walking surface
- ODU is at least 3' from electrical panel and 20' from power lines
- Use only approved and matching ODU hardware
- Secure the footplate to a corner stud with:
 - Two 6" lags on S-tube
 - Two 3" lags on L-bracket
- Seal all drilled holes with silicone
- Zip-tie cable to the mast, including a 6" diameter service loop
- Connect messenger/ground wire to a galvanized strap or green ground screw
- Tighten all hardware completely

LOW PROFILE "STUB" MOUNT



- Attach to an approved, structurally sound surface:
 - Sloped roofs only
 - Asphalt shingles only
 - Close to the roof's edge
 - Ideally not over living space
- ODU is at least 3' from electrical panel and 20' from power lines
- Use only approved and matching ODU hardware
- Secure the footplate to the roof with:
 - Two 3" lags through center holes into rafter
 - Four 2" lags through corner holes
- Seal all drilled holes with tar-based sealant
- Zip-tie cable to the mast, including a 6" diameter service loop
- Connect the messenger/ground wire to a green ground screw on the footplate
- Tighten all hardware completely

POLE MOUNT



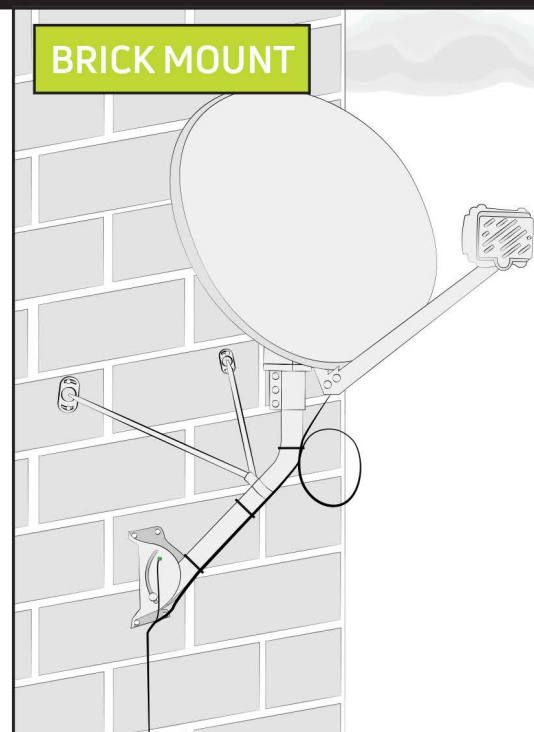
Pole Mount

- Install in stable, solid ground
- Use an approved pole:
 - 2" OD, 9 gauge, or 2 3/8" OD, Schedule 40
 - Galvanized, with an anti-spin device
 - 84" or 96" in length
- Photo displays measuring tape along pole:
 - If 7ft pole: 4' above walking surface
 - If 8ft pole: 5' above walking surface
- Use 150 lbs. of concrete (3 bags)
- Use 2 sweeps (1 at pole, 1 at house)
- If non-flooded cable is used, it must be buried in conduit
- Zip-tie cable to the pole, including a 6" diameter service loop
- Connect the messenger/ground wire to a galvanized ground strap
- Tighten all hardware completely

Hole

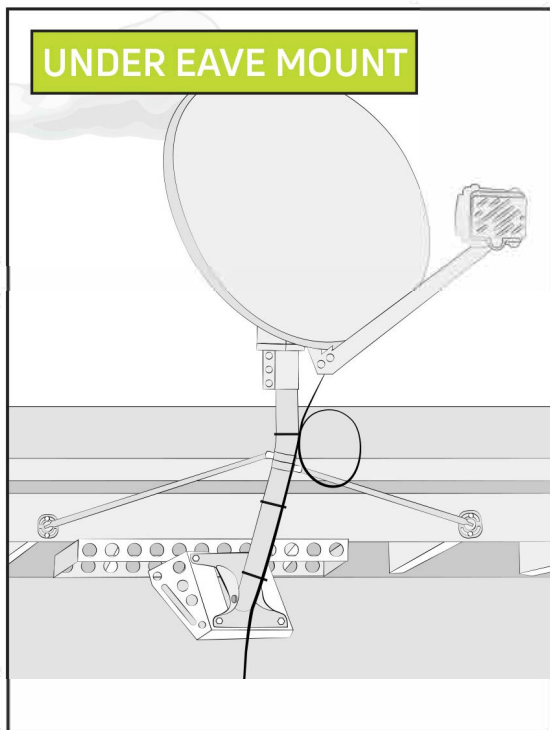
- Photo displays the hole measures 36" from the bottom to the top
- Hole should appear 12" in diameter and bell-shaped at the bottom

BRICK MOUNT



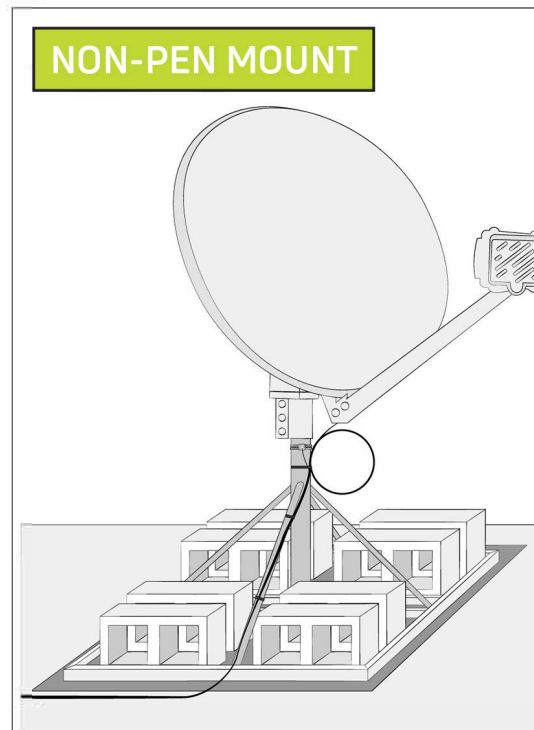
- Attach to an approved, structurally sound surface (load bearing wall, 28" away from corner/door/window/top of wall, no chimneys)
- Mount antenna so that the bottom of the reflector is at least 4' above a walking surface
- ODU is at least 3' from electrical panel and 20' from power lines
- Use only approved and matching ODU hardware
- Secure footplate using four 2" lags in corner holes and proper anchors
- Position monopoles 2" below the bend, at an upward angle, forming a tripod
- Monopole plates secured by two 2" lags, using proper anchors
- Lags must not be drilled into mortar, or more than two lags in one brick
- Seal all drilled holes with silicone
- Zip-tie cable to the mast, including a 6" diameter service loop
- Connect messenger/ground wire to a green ground screw on the footplate
- Tighten all hardware completely

UNDER EAVE MOUNT



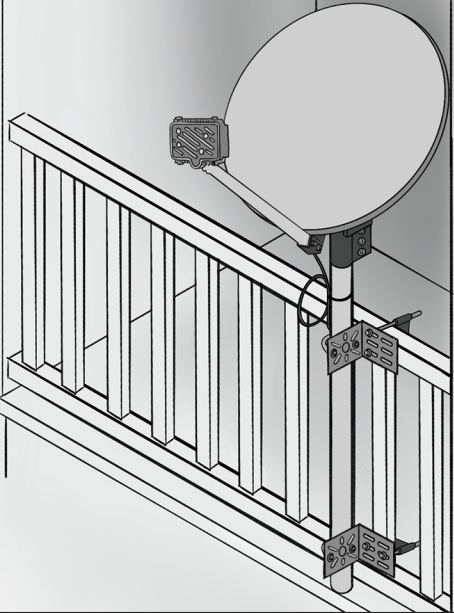
- Attach to an approved, structurally sound surface
- ODU is at least 20' from power lines
- Use only approved and matching ODU hardware
- The following options are available:
 - Slearo mount secured with four 3" lags
 - J-Mount secured with two 3" lags in center holes, and four 2" lags in corner holes
 - EM7 mount secured with five 3" lags
- Install the monopole per manufacturer's instructions
- Secure the monopole plates to adjacent rafters using two 2" lags
- Seal all drilled holes with silicone
- Zip-tie cable to the mast including a 6" diameter service loop
- Connect the messenger/ground wire to a green ground screw on the footplate
- Tighten all hardware completely

NON-PEN MOUNT



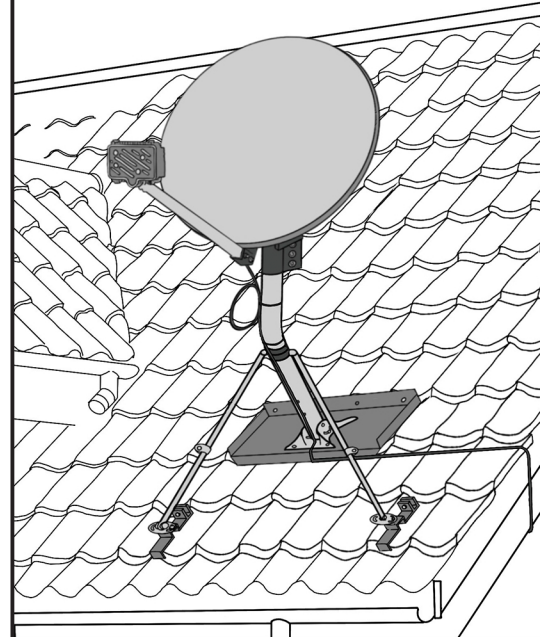
- Approved for flat roof, balcony, deck, patio, and ground use when a pole mount is not an option
- Use a protective mat
- If using monopoles, position the collars 2" below the bend, at a downward angle, forming a tripod
- Zip-tie cable to the mast, including a 6" diameter service loop
- Universal or stub mount based on location with snow as a consideration
- Should be placed in area of low traffic
- Surface must allow mast to be leveled
- Location should not be prone to flooding
- ODU is at least 3' from electrical panel and 20' from power lines
- Cable must not pose a tripping hazard
- Requires eight 28-pound cinder blocks for ballast

Rail Mount



- Attach to structurally sound railing, preferably near a wall or post
- ODU is at least 3' from electrical panel and 20' from power lines
- Zip-tie cable to the mast, including a 6" diameter service loop
- Connect the messenger to the L-bracket with a green ground screw
- Prevent hazards by properly routing and securing the coaxial cable
- Tighten all hardware completely

Tile Mount



- Attach to an approved, structurally sound surface on a sloped tile roof (clay or concrete tiles only)
- Avoid broken or cut tiles and use at least 3' from any flashing
- ODU is at least 3' from electrical panel and 20' from power lines
- Requires use of tri mast
- Place 2 or more rows from eave
- Position monopoles 2" below the bend, at a downward angle, forming a tripod
- Zip-tie cable to the mast, including a 6" diameter service loop
- Connect the messenger/ground wire to a green ground screw on the footplate
- Tighten all hardware completely