

## INSTALLATION PROCEDURES

- Conforms to Washington State Energy code (WSEC) for low air infiltration. Tested in accordance with ASTM E283 (2.0 CFM or less).
- Thermal insulation may be installed in direct contact with fixture. (Figure 1)
- Install hanger bars to fixture; ensure end tab is facing outward. (Figure 2)
- Extend bar hangers to fit between joists and position fixture by hammering nail on bars into the joists. Hangers should be level with bottom of the joists. (Figure 3)
- Use T-Bar slot in the bottom bars for suspended (T-Bar) ceilings, bending the tabs to hold T-Bar tightly.

### CUTTING HOLE:

- Hole must be 4-3/8" diameter.
- Locate the center of proposed opening on ceiling material and mark. Use compass to draw circle around this center point. Cut along this circular line.

### ELECTRICAL CONNECTION:

- Remove J-box cover by pushing up on spring clip.
- Attach conduit with connector to J-box and secure. Connect supply wires to fixture wires and insulate with proper size wire nuts (not provided). **ALWAYS SPlice WHITE TO WHITE AND BLACK TO BLACK.** (Figure 4)
- Connect the green ground wire to the green grounding pigtail in junction box (Figure Replace cover.
- For Romex or 3-wire BX, flexible metal cable installations attach supply ground lead (green) to bare copper ground lead or ground screw in wiring box mounted on plaster frame. Local electrical codes should be consulted to determine acceptable installation: conduit, Romex or flexible metal cable.

### INSTALLING LED MODULE TRIMS (Figure 5)

- **NOTE:** Housing uses a male type IDEAL® quick-connect connector. LED module must use matching female type IDEAL quick-connect luminaire connector.

#### PRESSURE SPRINGS

Make sure the POWER IS TURNED OFF at the source to the recessed housing. Holding up the LED Downlight module, attach the connectors between the housing and the module. Care should be taken not to damage wiring during this process. Slide module upward into housing. Module springs will flex against interior of recessed can and retain the module. Push module up until trim ring is flush with ceiling surface.

**WARNING:** Use only those trims, lamps and maximum wattages proper for this fixture, as indicated on the label within the housing. Do not exceed maximum allowable LED module wattage.

**WARNING:** The National Electrical Code, Article 110-3(B), states that "Listed or labeled equipment shall be used or installed in accordance with any instructions included in the listing or labeling." Use only with ConTech UL listed trims.

**WARNING:** If any special control devices are used with this fixture, follow the instructions carefully to assure full compliance with NEC requirements.

### IMPORTANT SAFETY INSTRUCTIONS:

- Read all the instructions before installation. Save instructions for later use.
- Turn off power at fuse or circuit breaker box before installation or doing any maintenance work.
- Product must be grounded to avoid potential electric shock and any other potential hazards.
- Product must be mounted in locations and at heights and in a manner consistent with its intended use, and in compliance with National Electrical Code and local codes. Use of accessory equipment is not recommended.
- Installing contrary to instructions may cause unsafe conditions.
- Do not block light from the trim aperture, in whole or in part, as this may cause unsafe conditions.
- **Warning:** Risk of fire. Most dwellings built before 1985 have supply wire rated at 60°C. Consult a qualified electrician before installation.
- To avoid hazards to children, account for all parts and properly dispose of all packing materials.
- Call the Technical Support department at ConTech Lighting with any installation questions: 847.559.5500.

