

# Chadsworth Incorporated

277 North Front Street  
Historic Wilmington, North Carolina 28401

## DOME INSTALLATION

Please Read And  
Follow All Installation  
Instructions Carefully

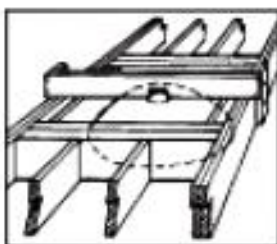


Figure 1

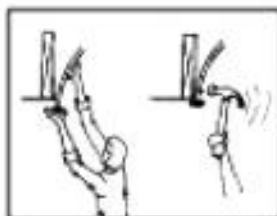


Figure 2



Figure 3

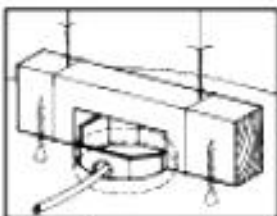


Figure 4



Figure 5

### 1. Preparing the Ceiling

- Invert dome and trace on ceiling.
- For domes with rims, measure and mark the distance from the edge of the domes rim to the beginning of the curve. This is the cut line.
- For rimless domes, the tracing line is the cut line.

### 2. Cutting the Rough Opening

- **Frame and Wallboard Construction:** Cut wallboard and remove necessary sections of joist. Add as needed for support (*figures 1 & 2*): (1) framing members, (2) double members on each side and perpendicular to ceiling joist, (3) over the top to hold electrical box.
- **Lay-in or Suspended Ceilings:** Cut acoustical tiles and metal framework. (*figure 3*). When in place, tiles will rest on the edge of the dome and framework.

### 3. Preparing the Dome

- Lightly sand dome surface.
- **Fiberglass domes:** drill hole for light fixture if needed:
  - holes less than 1/2" cut from front with metal cutting twist bit;
  - holes 1/2" to 2" cut from front with metal cutting hole saw;
  - holes 2" or more cut from back with reciprocating saw (*jig or sabre*)
- **Polyurethane Domes** can be drilled from the front side.
- **Frame and Wallboard Construction:**
  - **Fiberglass Domes:** Thread construction wire through metal straps on back of dome. Attach wires tightly to the overhead joist using screws (*figure 4*).  
*Note: If you choose to drill through the dome, refill holes with Bondo then sand, or use fiberglass repair kit.*
  - **Polyurethane Domes:** Insert screws through dome into wallboard or framing. Domes can be glued to ceiling using Degabond non-solvent adhesive.
- **Lay-in or Suspended Ceilings:**
  - **Fiberglass Domes:** Thread construction wire through straps; attach wires to suspended ceiling wires.
  - **Polyurethane Domes:** Use a wood block, into which the suspension wires are secured. Screw from the inside of the dome through the wood block that is positioned on the topside of the dome (*figures 4 & 5*).  
*Note: Light fixture is supported by the framing, not by the dome.*

### 4. Final Touch-Up

- Sand surface of dome; paint with high quality paint. **Do Not** use lacquer paints.
- Caulk where dome meets the ceiling.
- If using Wesley Rimless dome, standard drywall techniques apply.