



Polymer Concrete Manholes and Wet Wells: Handling & Installation Instructions

Material Handling

1. **Safety:** Review instructions, use safety gear (hard hat, gloves, etc.), and follow procedures. Obtain P3 Polymers' approval for any deviations.
2. **Inspection:** Inspect components for damage upon delivery. Note damage or shortages on the Bill of Lading and notify P3 Polymers immediately.
3. **Unloading & Handling:**
 - Confirm component weights and use adequate rigging/lifting equipment.
 - Lift using embedded lift pins on the side of structures with a spreader bar, using standard chains and hooks, keeping chains within 30° of vertical to prevent damage.
 - Place components on level ground atop wooden blocks, avoiding direct ground contact.
 - Ensure chains don't touch components and avoid dropping or impacting them.
4. **Rigging:** Contractor is responsible for proper lifting apparatus. Consult P3 Polymers or local suppliers with concerns.

Installation

1. **Safety:** Review instructions, use safety gear, and ensure proper rigging. Follow pipe connector and sealant manufacturer guidelines.
2. **Inspection:** Inspect components for damage and clean joining surfaces of dirt, grease, or contaminants (use denatured alcohol if needed).
3. **Foundation:** Install on a firm, stable foundation. Replace unstable material with compacted crushed stone.
4. **Base Structure:**
 - Clean joint surfaces, lift using embedded lift pins, and set in place.
 - Apply sealant (butyl rubber, gaskets, or polymer grout per project specifications) in the bell or keyway per manufacturer instructions.
5. **Pipe Connections:** Install using flexible rubber connectors (ASTM C923) per manufacturer instructions.
6. **Risers:**
 - Clean joining surfaces, lift with embedded lift pins, and set on base.
 - Apply sealant (butyl rubber, gaskets, or polymer grout per project specifications) in the bell or keyway.
7. **Flat-Lid (84"+ manholes) or Cone (48", 60", 72" manholes):**
 - Clean surfaces, lift with embedded lift pins (rigging within 30° of vertical), and set on riser.
 - Apply sealant (butyl rubber, gaskets, or polymer grout per project specifications) for Flat-Lid or Cone per manufacturer instructions.
8. **Backfilling:**
 - Install to project line and grade with bedding to support design loads.
 - Use backfill material per project specifications, hand-placed and tamped in 12–24" lifts.
 - Avoid heavy equipment on manhole during backfilling.

Contact P3 Polymers for questions or concerns.