
SECTION 03100 - CONCRETE FORMWORK (SURETOPS™)

This section includes cylindrical corrugated paper or waterproof, corrugated plastic concrete form materials to properly form and contain the upper portion of cast-in-place concrete piers (drilled caissons). SureTops® prevent structural damage from uplifting soils by eliminating mushroomed pier tops, as well as correctly identifying the center of drilled piers.

Information contained herein is intended to be included as a supplement to Section 03100 - Concrete Formwork.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Cylindrical corrugated paper or waterproof, corrugated plastic formwork for forming tops of cast-in-place concrete piers (drilled caissons).

1.2 SUBMITTALS

- A. Submit product data and manufacturer's installation instructions under provisions of Section 01300 for corrugated paper or plastic formwork and accessories.

PART 2 PRODUCTS

Edit the following descriptive specifications to identify project requirements:

SureTops are designed to withstand imposed loads during construction. The unique cylindrical design allows for elevations slightly above grade. They are shipped flat and are pre-scored for easy shaping and placement in caisson. Pre-cut lengths eliminate the need for field cutting. They are designed slightly undersized for easy placement.

Types Available:

- 1. Residential – Moisture-resistant, pre-scored corrugated paper (available in 10" and 12" diameters).
- 2. Commercial – Waterproof, pre-scored corrugated plastic (available in any diameter).

Related Products:

- 1. WallVoid® – used to create void space directly under grade beams or walls.
- 2. SlabVoid® – used to create void space directly under structural concrete slabs.
- 3. ArcVoid® – used to properly create void space around the upper portion of drilled piers at the intersection with grade beams.
- 4. SureRound PierVoid® – used to properly create void space adjacent to the upper portion of drilled piers at the intersection of slabs, under pier caps, or at a transition in pier diameter.
- 5. Column Wrap® – used to surround and isolate telepost columns from the slab.
- 6. Pipe Guard® – used to surround and isolate typical diameter pipes that are protruding from the slab.
- 7. Pipe Wrap® – used to surround and isolate all sizes of pipes protruding from the slab.
- 8. Angle Expansion Strip® – used to reduce damage caused by vertical movement around the slab perimeter adjacent to grade beams.
- 9. SureRetainer® by Motzblock® – used to help deter rapid moisture loss around the perimeter of the slab and prevent the migration of backfill material into the voided area, while allowing compaction equipment to operate directly adjacent to slab, walls, or grade beams.
- 10. SureCover Board® – used to distribute working load, bridge small gaps, and protect void material from puncture and other damage during concrete placement.

Where brackets are indicated [], a choice needs to be made by design engineer. Remove options not needed for a particular project.

2.1 PREFABRICATED FORMS

- A. Drilled Pier Top Forms:
 - 1. Function: used to properly form and contain upper portion of concrete piers.
 - 2. Composition: [residential – moisture-resistant, corrugated paper] [commercial – waterproof, corrugated plastic].
 - 3. Diameters: slightly undersized to pier diameter as indicated on drawings.
 - 4. Length: not to exceed 24”.
 - 5. Shipping: shipped flat.
 - 6. Acceptable Products / Manufacturer: SureTops[®] as manufactured by SureVoid Products, Inc., Englewood, CO (800) 458-5444 or Fort Worth, TX (888) 803-VOID

PART 3 EXECUTION

3.1 INSTALLATION

- A. Drilled Pier Top Forms:
 - 1. Store pier top forms in accordance with manufacturer’s recommendations.
 - 2. Protect corrugated paper forms from moisture before concrete placement.
 - 3. Install pier top forms in accordance with manufacturer’s recommendations.
 - 4. Place concrete in caisson up to an elevation that is approximately 12” to 24” below grade level, stopping just below the point at which the excavation is broken away.
 - 5. Open flat pier top form, shape into a cylinder by hand, and insert into pier top. Do not knife into concrete, as this defeats the purpose of the form.
 - 6. Protect forms from damage during concrete placement by filling form to the required elevation by hand. Do not exceed an elevation 12” above grade.
 - 7. Adjust concrete filled form to a perpendicular position.

END OF SECTION