Contech CSP Vent Pipe »
Optimal Solution for Potato Storage
Contech has over 50 years manufacturing Corrugated Steel Pipe (CSP) Vent Pipe with a service life expectancy of 25 to 40 years.

CSP Vent Pipe prevents particles from becoming trapped in the wall profile. Dual wall plastic is difficult if not impossible to sanitize when particles enter through stress cracks and become trapped in corrugations.

Custom hole patterns can be accommodated to provide enhanced air flow.

- **3X THE STRENGTH OF PLASTIC**
- Pile heights of 20 feet plus are possible with CMP Vent Pipe.
- The strength of plastic decreases over time. Studies have shown a 20% decrease in strength the first year. Strength continues to decrease with each subsequent installation.

Enhanced end flanges are available for increased joint tightness.

Contech CSP Vent Pipe is manufactured per industry standards of 1-1-3/4" holes on the bottom of the pipe allowing more air flow to be pushed through the entire pile. Custom designs are available including smaller holes around the circumference without jeopardizing the structural integrity. Options include 3/8" fully perforated, strip perforations, and pin hole perforation for grain.
CSP & Corrugated Plastic Pipe Product Comparison

STRENGTH

Corrugated Steel Pipe does not lose strength over time as do thermoplastic pipe products. Because Polypropylene and Polyethylene pipe are “liquid” plastics they are more susceptible to creep under loads.

MATERIAL PROPERTIES

<table>
<thead>
<tr>
<th>PIPE TYPE</th>
<th>Initial Modulus of Elasticity (psi)</th>
<th>75-YR Modulus of Elasticity (psi)</th>
<th>Initial Yield Strength (psi)</th>
<th>75-YR Yield Strength (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSP</td>
<td>29,000,000</td>
<td>29,000,000</td>
<td>33,000</td>
<td>33,000</td>
</tr>
<tr>
<td>PE</td>
<td>110,000</td>
<td>21,000 (80% reduction)</td>
<td>3,000</td>
<td>900 (70% reduction)</td>
</tr>
<tr>
<td>PP</td>
<td>175,000</td>
<td>28,000 (84% reduction)</td>
<td>3,500</td>
<td>1,000 (71% reduction)</td>
</tr>
</tbody>
</table>

THERMAL EXPANSION

A high thermal expansion in the pipe can lead to pipe movement and poor joint integrity. Polypropylene and Polyethylene are “liquid” plastics and have a high thermal expansion and contraction. Polypropylene and Polyethylene have 12 times the thermal expansion and contraction of carbon steel.*

Coefficient of Thermal Expansion*

<table>
<thead>
<tr>
<th>PIPE TYPE</th>
<th>10-6 in/in F</th>
<th>10-6 m/m C</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSP Vent Pipe</td>
<td>6.5</td>
<td>11.7</td>
</tr>
<tr>
<td>Corrugated Polypropylene</td>
<td>83</td>
<td>150</td>
</tr>
</tbody>
</table>

AIR FLOW

Helically Corrugated Steel Pipe (spiral) has a lower Manning’s “n” than corrugated plastic pipe with smooth interior when installed under a constant load. The thin plastic inner wall may buckle when a load is applied, creating annular corrugations throughout the pipe. Helical CSP is made in a spiral fashion and creates a rifle effect allowing smooth air flow. Plastic pipe generally has drilled holes around the entire pipe that may not take full advantage of air flow.

INTERESTED IN CSP VENT PIPE BY CONTECH? LEARN MORE TODAY 800-338-1122!
Contech Engineered Solutions provides site solutions for the civil engineering industry. Contech’s portfolio includes bridges, drainage, retaining walls, sanitary sewer, storm sewer, erosion control and stormwater treatment solutions.

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