The specification describes 12- through 60-inch (300 to 1500 mm) ADS SanTite® HP for use in Slip line applications.

**PIPE REQUIREMENTS**

ADS 12" – 24" (300 – 600 mm) SanTite® HP shall have a smooth interior and annular exterior corrugations and ADS 12" – 60" (1500 mm) SanTite® HP shall have a smooth interior and exterior surfaces with annular inner corrugations.

- 12" – 60" (750 to 1500 mm) pipe shall meet ASTM F2764* and AASHTO M330.
- 12" – 60" (300 – 1500 mm) pipe shall have a minimum pipe stiffness of 40 ft when tested in accordance with ASTM D3212.
- Manning’s “n” value for use in design shall be 0.012.

**JOINT PERFORMANCE**

Pipe shall be jointed with a gasketed integral bell & spigot joint meeting the requirements of ASTM D3212 and AASHTO M330.

- 12" – 60" (300 – 1500 mm) shall be watertight according to the requirements of ASTM D3212.
- Gaskets shall be installed by the pipe manufacturer and covered with a removable, protective wrap to ensure the gasket is free from damage. A jointant lubricant supplied from the manufacturer shall be used on the gasket and spigot during assembly.

**FITTINGS**

Fittings shall conform to ASTM F2764* and AASHTO M330. Bell & spigot connections shall allow a smooth, welded or integral bell and spigot connection to be made that meet the centrifugal requirements and the gasket requirements of ASTM D3212.

**FIELD PIPE AND JOINT PERFORMANCE**

To ensure watertightness, field performance verification may be accomplished by testing in accordance with ASTM F1417 or ASTM F2487. Appropriate safety precautions must be used when field-testing any pipe material.

**MATERIAL PROPERTIES**

Polypropylene copolymer pipe and fitting production shall be an impact modified copolymer meeting the material requirements of ASTM F2764* and AASHTO M330.

**INSTALLATION**

For unloading, handling, and installation procedure information refer to Technical Notes 5.14 and 5.18. The hoisting of annular voids is to be done in accordance with the project plans/specifications and the manufacturer’s recommendations which can be found in Technical Notes 5.14 and 5.18. Contact your local ADS representative or visit our website at www.ads-pipe.com for a copy of the latest Technical Notes.

**Superior Hydraulics and Durability**

ADS SanTite® HP liner systems improve hydraulics over deteriorated CIP or RCP. SanTite® HP liner systems are highly resistant to abrasion and are not susceptible to chemical attack or corrosion for a long-lasting solution to rehabilitate existing aging infrastructure.

**National Standards**

Pipe
- ASTM F2764, Standard Specification for 6" - 60" (150 - 1500 mm) Polypropylene (PP) Corrugated Double and Triple Wall Pipe and Fittings for Non-Pressure Sanitary Sewer Systems
- AASHTO M330, Polypropylene Pipe 12" - 60" (300 mm - 1500 mm) diameter

Gaskets
- ASTM F477, Elastomeric Seals (Gaskets) for Joining Plastic Pipe

Pipe Stiffness Test
- ASTM D3212, Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading

Watertight Joint Lab Test
- ASTM D3212, joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals
#### HIGH PERFORMANCE POLYPROPYLENE PIPE FOR SLIPLINE APPLICATIONS

SaniTite HP provides an easy, economical solution for sewer castings or to rehabilitate deteriorated CMP and RCP culverts by providing:
- Sizes available in 12" - 60" (300 mm - 1500 mm) diameters. See specifications on page 6 for details per diameter.
- Standard pipe lengths are 20’ (6 m) for all pipe diameters and a 16.3’ (5 m) length for 60” (1500 mm) diameter.
- In-field technical support for these applications directly from ADS.
- Watertight joint meeting the requirements of ASTM F2764*.
- Superior Joint Performance.
- Faster Installation.
- Superior pipe stiffness (>46 pii).
- Restores hydraulics.
- Ease of Installation.

*ASTM F796 has been incorporated into the latest version of ASTM F794.

#### Ease of Installation

The lightweight pipe and triple wall design exclusive to SaniTite HP reduces friction and allows for longer uninterrupted pushing distance with lighter construction equipment. SaniTite HP is available in 13’ (4 m) length for 12” - 48” (300 mm - 1200 mm) diameters and a 16.3’ (5 m) length for 60” (1500 mm) diameter. In addition, SaniTite HP is available in a standard 20’ (6 m) length for 12” - 60” (300 mm - 1500 mm) diameter to suit the changing needs of various projects. Custom pipe lengths are available upon request.

#### The Advantages Are Clear

- Advanced Polypropylene Resin
- Excellent Pipe Stiffness (+46 %)
- Innovative Triple Wall Profile
- Superior Joint Performance
- Meets National Highway Design Standards
- Restores Hydraulics
- Best Economic Value
- Resistant to Abrasion
- Corrosion Resistant
- Faster Installation

#### SanTite HP VS. CMP Flow Rates

<table>
<thead>
<tr>
<th>Diameter in. (mm)</th>
<th>CMP (n=0.024)</th>
<th>SanTite HP (n=0.012)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 (300)</td>
<td>0.43</td>
<td>0.86</td>
</tr>
<tr>
<td>15 (375)</td>
<td>0.78</td>
<td>1.56</td>
</tr>
<tr>
<td>18 (450)</td>
<td>1.27</td>
<td>2.54</td>
</tr>
<tr>
<td>24 (600)</td>
<td>2.74</td>
<td>5.48</td>
</tr>
<tr>
<td>30 (750)</td>
<td>4.97</td>
<td>9.93</td>
</tr>
<tr>
<td>36 (900)</td>
<td>8.08</td>
<td>16.15</td>
</tr>
<tr>
<td>42 (1050)</td>
<td>12.18</td>
<td>24.37</td>
</tr>
<tr>
<td>48 (1200)</td>
<td>17.39</td>
<td>34.79</td>
</tr>
<tr>
<td>60 (1500)</td>
<td>31.54</td>
<td>63.07</td>
</tr>
</tbody>
</table>

Values based on 0.05% slope for both pipes. Please refer to slope that are actually

Contact ADS for more specific installation parameters.

#### Industry Leading Joints

SaniTite HP boasts two gaskets and a polypropylene resin technology and exclusive triple wall design provide enhanced pipe stiffness, beam strength and joint integrity, making SaniTite HP the logical and most economical choice for your next slipline project.

#### THE MOST ADVANCED NAME IN WATER MANAGEMENT SOLUTIONS®