THE PERFORMANCE YOU EXPECT.  
THE INNOVATIONS YOU NEED.

With over 110 years experience, Hancor has provided expert knowledge and innovative product solutions proven in a wide range of field drainage applications. Our HDPE pipe delivers superior value while providing physical strength and structural design that just cannot be matched by metal or concrete.

Sure-Lok pipe is perfect for storm water applications: retention/detention systems; culverts; cross, slope or edge drains. Other uses include golf courses, sports playing fields, or parking lot drainage.

**Features & Benefits**

- Soil-tight rubber gasket meets ASTM F477
- Available in 20’ (6 m) lengths, resulting in fewer joints; custom lengths also available.
- Bell-and-spigot joint allows for quick and easy installation.
- Easy-to-handle, safe, lightweight pipe requires less labor and equipment for faster installation and reduced costs.
- HS-25 (Highway traffic loads) rated with a minimum of 12” (0.3 m) of cover for 4” - 48” (100 - 1200 mm) diameters and 24” (0.6 m) of cover for 54” and 60” (1350 and 1500 mm) diameters in single run applications.
- Provides superior resistance to chemicals, road salts, motor oil and gasoline – will not rust, deteriorate or crumble.
- Withstands repeated freeze/thaw cycles and continuous subzero temperatures.
- Superior hydraulics-smooth interior will ensure no debris or sediment build-up.

**Hancor Service:** Hancor representatives and engineers are committed to providing you with the answers to all your questions, including specifications, installation, backfill recommendations and more.
HANCOR SURE-LOK ST IB PIPE (PER AASHTO) SPECIFICATIONS

SCOPE
This specification describes 4- through 60-inch (100 to 1500 mm) Hancor Sure-Lok ST IB pipe (per AASHTO) for use in gravity-flow drainage applications.

PIPE REQUIREMENTS
Sure-Lok ST IB pipe (per AASHTO) shall have a smooth interior and annular exterior corrugations.

- 4- through 10-inch (100 to 250 mm) shall meet AASHTO M252, Type S.
- 12- through 60-inch (300 to 1500 mm) shall meet AASHTO M294, Type S or ASTM F2306.
- Manning’s “n” value for use in design shall be 0.012.

JOINT PERFORMANCE
Pipe shall be joined using a bell & spigot joint meeting AASHTO M252, AASHTO M294, or ASTM F2306. The joint shall be soil-tight and gaskets, when applicable, shall meet requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable wrap to ensure the gasket is free from debris. A joint lubricant supplied by the manufacturer shall be used on the gasket and bell during assembly.

FITTINGS
Fittings shall conform to AASHTO M252, AASHTO M294, or ASTM F2306. Bell and spigot connections shall utilize a spun-on or welded bell and valley or saddle gasket meeting the soil-tight joint performance requirements of AASHTO M252, AASHTO M294 or ASTM F2306.

MATERIAL PROPERTIES
Virgin material for pipe and fitting production shall be high-density polyethylene conforming with the minimum requirements of cell classification 424420C for 4- through 10-inch (100 to 250 mm) diameters, and 435400C for 12- through 60-inch (300 to 1500 mm) diameters, as defined and described in the latest version of ASTM D3350, except that carbon black content should not exceed 4%. The 12- through 60-inch (300 to 1500 mm) virgin pipe material shall comply with the notched constant ligament-stress (NCLS) test as specified in Sections 9.5 and 5.1 for AASHTO M294 and ASTM F2306 respectively.

INSTALLATION
Installation shall be in accordance with ASTM D2321 and Hancor’s published installation guidelines with the exception that minimum cover in trafficked areas for 4- through 48-inch (100 to 1200 mm) diameters shall be one foot (0.3 m) and for 54- and 60-inch (1350 and 1500 mm) diameters, shall be 2 ft. (0.6 m) in single run applications. Backfill for minimum cover situations shall consist of Class 1, Class 2 (Minimum 90% SPD) or Class 3 (Minimum 90% SPD) material. Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.01. Contact your local Hancor representative or visit our website at www.hancor.com for a copy of the latest installation guidelines.

PIPE DIMENSIONS

<table>
<thead>
<tr>
<th>Pipe I.D., in. (mm)</th>
<th>4 (100)</th>
<th>6 (150)</th>
<th>8 (200)</th>
<th>10 (250)</th>
<th>12 (300)</th>
<th>15 (375)</th>
<th>18 (450)</th>
<th>24 (600)</th>
<th>30 (750)</th>
<th>36 (900)</th>
<th>42 (1050)</th>
<th>48 (1200)</th>
<th>54* (1350)</th>
<th>60 (1500)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe O.D., ** in. (mm)</td>
<td>4.8 (122)</td>
<td>6.9 (175)</td>
<td>9.1 (231)</td>
<td>11.4 (290)</td>
<td>14.5 (388)</td>
<td>18 (457)</td>
<td>22 (559)</td>
<td>28 (711)</td>
<td>36 (914)</td>
<td>42 (1067)</td>
<td>48 (1219)</td>
<td>54 (1372)</td>
<td>61 (1549)</td>
<td>67 (1702)</td>
</tr>
</tbody>
</table>

*Check with sales representative for availability by region.

**Pipe O.D. values are provided for reference purposes only, values stated for 12- through 60-inch are ± 1 inch. Contact a sales representative for exact values.