

# SureLok® ST IB PIPE (PER ASTM F2648)

## 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. Today's Sure-Lok ST IB pipe (per ASTM F2648) is engineered with a compound of virgin and recycled high density polyethylene resins to provide impressive material properties. The performance you've come to expect from Sure-Lok, with the added benefit of helping to promote responsible use of resources. Our HDPE pipe delivers superior value while providing physical strength and structural design that just cannot be matched by metal or concrete.

Sure-Lok ST IB pipe (per ASTM F2648) is perfect for storm water applications: storm drains; retention/detention; golf, turf and recreation; culverts/cross drains; grain aeration; waterways and ditch enclosures. Other uses include slope/edge drains, mining/forestry/industrial, foundation drains, downspouts/roof drainage, land reclamation or terracing.

### FEATURES & BENEFITS

- Soil-tight rubber gasket meets ASTM F477
- Available in 20' (6m) 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 1' (0.3 m) of cover for 4" - 48" (100 - 1200 mm) diameters and 2' (0.6 m) of cover for 60" (1500 mm) diameter 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 ASTM F2648) SPECIFICATIONS

## SCOPE

This specification describes 4- through 60-inch (100 to 1500 mm) Hancor Sure-Lok ST IB pipe (per ASTM F2648) for use in gravity-flow land drainage applications.

## PIPE REQUIREMENTS

Sure-Lok ST IB pipe (per ASTM F2648) shall have a smooth interior and annular exterior corrugations.

- 4- through 60-inch (100 to 1500 mm) shall meet ASTM F2648.
- Manning’s “n” value for use in design shall be 0.012.

## JOINT PERFORMANCE

Pipe shall be joined using a bell & spigot joint meeting ASTM F2648. 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 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 ASTM F2306.

## MATERIAL PROPERTIES

Material for pipe production shall be an engineered compound of virgin and recycled high-density polyethylene conforming with the minimum requirements of cell classification 424420C (ESCR Test Condition B) for 4- through 10-inch (100 to 250 mm) diameters, and 435420C (ESCR Test Condition B) 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 design engineer shall verify compatibility with overall system including structural, hydraulic, material and installation requirements for a given application.

## 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 and 60-inch (1500 mm) diameters, the minimum cover shall be 2 ft. (0.6 m) in a single run. Backfill for minimum cover situations shall consist of Class 1 (compacted) , or Class 2 (minimum 90% SPD) material. Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.02. Contact your local Hancor representative or visit our website at [www.hancor.com](http://www.hancor.com) for a copy of the latest installation guidelines.

## PIPE DIMENSIONS

Pipe I.D., in. (mm)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)	36 (900)	42 (1050)	48 (1200)	60 (1500)
Pipe O.D.,** in. (mm)	4.8 (122)	6.9 (175)	9.1 (231)	11.4 (290)	14.5 (368)	18 (457)	22 (559)	28 (711)	36 (914)	42 (1067)	48 (1219)	54 (1372)	67 (1702)
Perforations	All diameters available with or without perforations.												

\*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.

Hancor “Terms and Conditions of Sale” are available on the Hancor web site, [www.hancor.com](http://www.hancor.com)

## DIRECT CONTACT

**Customer Service**  
888-FOR PIPE (367-7473)  
Fax 888-FAX PIPE (329-7473) 24 hours a day

## ELECTRONIC MEDIA

**Web Site**  
Find market- and application-specific information and the latest industry news at our On-Line Pipeline – [www.hancor.com](http://www.hancor.com)