



Bury it and forget it.

## BLUE SEAL® WT IB PIPE (PER ASTM F2648).

### THE PERFORMANCE YOU EXPECT. THE INNOVATIONS YOU NEED.

With over a century of experience, we're experts when it comes to drainage, providing innovative solutions for all kinds of applications. Today's BLUE SEAL WT 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 BLUE SEAL, 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.

BLUE SEAL WT IB pipe (per ASTM F2648) is a gravity flow, watertight pipe ideal for storm drains, slope/edge drains, retention/detention and roof drainage. Other applications include culverts and cross drains, mining/forestry/industrial or ditch enclosures.

Pipe is available in a complete range of sizes from 4" - 60" (100 - 1500 mm) diameters. The unique feature that sets this system apart from any other is a highly engineered integral bell-and-spigot system that utilizes a polymer composite fused to the outside of the integral bell with a patented, factory-installed gasket. This revolutionary coupling system maintains bell dimension after installation providing uniform tolerances to ensure the highest consistent performance not found in the corrugated pipe industry.

### FEATURES

- Meets 10.8 psi water pressure and vacuum lab testing requirements.
- HS-25 (Highway traffic loads) rated when minimum cover is provided.
- Addresses EPA Phase II Best Management Practices for long-term service reliability.
- Lightweight, high strength composite joint requires less labor time for faster installations and reduced costs.
- Bell reinforcement provides uniform support not found in the corrugated polyethylene pipe industry.
- Fast bell-and-spigot joint assembly with unsurpassed structural integrity.
- HDPE pipe provides superior resistance to prevent rusting, deterioration or crumbling.

### BENEFITS

- Provides a visible commitment to better water quality, minimizing environmental impact.
- Prevents the contamination of soil and local waters from harmful substances such as sediment from construction runoff, lawn care products or automobile emissions.
- Avoids possible joint infiltration of sands and fines resulting in sinkholes and differential settlement to adjacent structures.
- Reduces the risk of blockage caused by vegetation infiltration into joints.
- Reduces soil migration.



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 BLUE SEAL WT IB PIPE (PER ASTM F2648) SPECIFICATIONS

## SCOPE

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

## PIPE REQUIREMENTS

BLUE SEAL WT 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

4- through 60-inch (100 to 1500 mm) shall be watertight according to the requirements of ASTM D3212. Gaskets shall be made of polyisoprene meeting the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable, protective wrap to ensure the gasket is free from debris. A joint lubricant available from the manufacturer shall be used on the gasket and bell during assembly.

12- through 60-inch (300 to 1500 mm) diameters shall have a reinforced bell with a bell tolerance device. The bell tolerance device shall be installed by the manufacturer.

## 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 watertight joint performance requirements of ASTM F2306.

## FIELD PIPE AND JOINT PERFORMANCE

To assure watertightness, field performance verification may be accomplished by testing in accordance with ASTM F2487. Appropriate safety precautions must be used when field-testing any pipe material. Contact the manufacturer for recommended leakage rates.

## 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 435400C (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 single run applications. 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)

\*\*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)

