

SaniTite® HP Sewer Pipe 750mm–1500mm





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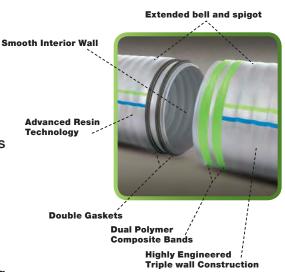
## Certified to CSA B182.13

A new addition to our proven line of pipe products, SaniTite HP (High Performance) couples advanced polypropylene resin technology with a patented triple wall profile design for superior performance and durability. This innovative new product meets or exceeds many of the industry standards for pipe stiffness and joint integrity currently used within the sanitary and storm trunk sewer markets. When specifying SaniTite HP, on your next sewer project, you are specifying some of the most stringent requirements in the industry. Design verification, structural considerations, and finished product quality are part of this all-encompassing specification.

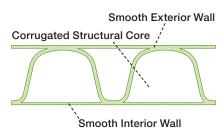
Advanced Triple Wall Construction and Profile Design SaniTite HP pipe in the 750mm–1500mm (30"-60") diameters utilize an innovative triple wall construction, providing pipe stiffness values meeting the CSA standard B182.13 (320 kPa) requirements. The additional stiffness and beam strength enhances jobsite performance in stringent line and grade requirements. The triple wall pipe profile provides a smooth exterior that simplifies backfill, installation and manhole connectivity. This profile is completed with a smooth interior that provides additional beam strength as well as excellent flow characteristics.

# **Superior Polypropylene Material**

Made from an engineered, impact modified co-polymer compound the superior strength and material properties of polypropylene (PP) offer robust pipe stiffness and excellent handling characteristics. It is chemically resistant to hydrogen sulfide gas and sulfuric acid concentrations typical of sanitary sewers to provide superior durability and performance. The unique light grey resin color provides immediate jobsite recognition as well as improving the pipe's interior visibility during post-installation inspection.



# **Exclusive Triple Wall Design**





Polypropylene Resin



**Interior View** 

# **Superior Joint Performance**

SaniTite HP pipe has a patented extended, reinforced bell with two polymer composite bands and dual gaskets that add an additional factor of safety within each joint. The SaniTite HP joint performance is certified to meet or exceed the CSA standard B182.13 requirements (100 kPa).

In the field, each section of SaniTite HP may be tested by a low pressure air test, according to ASTM F1417, which is a commonly used standard and specifies that 24.1 kPa (3.5 psi) air pressure be held for a specified length of time based upon pipe diameter and length of run.

Where a hydrostatic infiltration/exfiltration test is preferred, ASTM F2487 specifies a simplistic method of verifying proper joint performance. As specified, the system is plugged, filled with water and then measured for water loss within a specified period of time. Performance is recorded as litres of water lost per millimetre of inside diameter per kilometre of pipe per day.

Joint isolation tests are sometimes specified in lieu of whole line air or hydrostatic requirements due to safety concerns, especially prevalent with larger diameters. Please reference your local specifications for joint isolation standards or contact your ADS representative for additional information.

# **Diameter Range**

SaniTite HP pipe meeting CSA B182.13 is currently manufactured in the 750mm-1200mm (30"-48") size range in 6m (20 foot) or 4m (13 foot) lengths. The 1500mm (60") diameter is available in 6m (20 foot) and 5m (16 foot) lengths. The 6m (20 foot) lengths provide a faster installation and fewer joints. However, the 4m (13 foot) lengths are often preferred for deeper projects where trench conditions are more challenging.





Joint Isolation Test



Typical ASTM F1417 Air Test

|                 | DIAMETER RANGE |                       |             |                    |                     |                      |  |  |  |
|-----------------|----------------|-----------------------|-------------|--------------------|---------------------|----------------------|--|--|--|
| DIAMETER        | PRODUCT #      | RODUCT # PROFILE TYPE |             | INSIDE<br>DIAMETER | OUTSIDE<br>DIAMETER | TRUCKLOAD<br>FOOTAGE |  |  |  |
| 750mm (30 in.)  | 3030 0020 IBHP | Triple Wall           | 6m (20 ft.) | 764.5mm (30.1 in)  | 899.1mm (35.4 in)   | 109.7m (360 ft.)     |  |  |  |
| 750mm (30 in.)  | 3030 0013 IBHP | Triple Wall           | 4m (13 ft.) | 764.5mm (30.1 in)  | 899.1mm (35.4 in)   | 91.1m (299 ft.)      |  |  |  |
| 900mm (36 in.)  | 3630 0020 IBHP | Triple Wall           | 6m (20 ft.) | 906.8mm (35.7 in)  | 1043.9mm (41.1 in)  | 73.2m (240 ft.)      |  |  |  |
| 900mm (36 in.)  | 3630 0013 IBHP | Triple Wall           | 4m (13 ft.) | 906.8mm (35.7 in)  | 1043.9mm (41.1 in)  | 47.5m (156 ft.)      |  |  |  |
| 1050mm (42 in.) | 4230 0020 IBHP | Triple Wall           | 6m (20 ft.) | 1061.7mm (41.8 in) | 1198.9mm (47.2 in)  | 48.8m (160 ft.)      |  |  |  |
| 1050mm (42 in.) | 4230 0013 IBHP | Triple Wall           | 4m (13 ft.) | 1061.7mm (41.8 in) | 1198.9mm (47.2 in)  | 39.6m (130 ft.)      |  |  |  |
| 1200mm (48 in.) | 4830 0020 IBHP | Triple Wall           | 6m (20 ft.) | 1201.4mm (47.3 in) | 1366.5mm (53.8 in)  | 36.6m (120 ft.)      |  |  |  |
| 1200mm (48 in.) | 4830 0013 IBHP | Triple Wall           | 4m (13 ft.) | 1201.4mm (47.3 in) | 1366.5mm (53.8 in)  | 23.8m (78 ft.)       |  |  |  |
| 1500mm (60 in.) | 6030 0020 IBHP | Triple Wall           | 6m (20 ft.) | 1506.2mm (59.3 in) | 1689.1mm (66.5 in)  | 24.4m (80 ft.)       |  |  |  |
| 1500mm (60 in.) | 6030 0016 IBHP | Triple Wall           | 5m (16 ft.) | 1506.2mm (59.3 in) | 1689.1mm (66.5 in)  | 19.8m (65 ft.)       |  |  |  |

<sup>\*</sup>Contact your Sales Representative for availability of sizes in your area.

# **Fittings**

Standard and custom fittings are available for the SaniTite HP product line. The fittings are manufactured from pipe meeting CSA B182.13. Testable repair couplers are also available and include stainless steel restraint bands. Please contact your ADS representative for additional project specific information and capabilities.

# **Tap Connections**

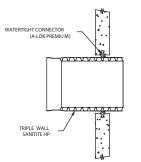
A standard tapping product, such as Inserta Tee®, is compatible with SaniTite HP.

# 750mm-1500mm Triple Wall Structure Connections

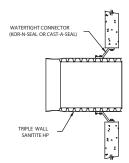
Sewer projects involving manhole connections require superior watertight performance combined with a flexible connection solution that can withstand the rigours of installation. To meet varying regional requirements, ADS offers a wide selection of connection options utilizing some of the most widely used manhole connectors on the market today from companies such as A-Lok, NPC and Press Seal Gasket Corporation.

When connecting triple wall SaniTite HP pipe to a manhole, a smooth exterior surface is required for commonly used flexible manhole connectors on the market today. Due to the innovative design of the exterior shell on large diameter SaniTite HP, commonly used manhole connectors on the market today can connect directly to a section of SaniTite HP pipe with no additional fittings or adapters.

# Pre-Cast Compression Gasket Connection



# Flexible Boot Connection



| PIPE<br>DIAMETER | A-LOK PREMIUM<br>RING PRODUCT CODE |
|------------------|------------------------------------|
| 750mm (30 in.)   | 1130                               |
| 900mm (36 in.)   | 1310                               |
| 1050mm (42 in.)  | 1520                               |
| 1200mm (48 in.)  | 1705                               |
|                  |                                    |



Repair Coupler



Typical Inserta Tee Tap



Boot Connection
Directly to SaniTite HP



A-Lok Premium Compression Connection



# ADS SANITITE® HP 750mm-1500mm (30"-60") SANITARY PIPE SPECIFICATION

#### **SCOPE**

This specification describes 750 to 1500mm (30- through 60-inch) ADS SaniTite HP pipe for use in gravity-flow sewer applications.

## **PIPE REQUIREMENTS**

ADS SaniTite HP pipe shall have smooth interior and exterior surfaces with annular inner corrugations.

- 750 to 1500mm (30"-60") pipe shall be certified by an accredited certification body to meet CSA B182.13.
- 750 to 1500mm (30"-60") pipe shall have a minimum pipe stiffness of 320 kPa when tested in accordance with ASTM D2412.
- Manning's "n" value for use in design shall be 0.012.

### JOINT PERFORMANCE

Pipe shall be joined with a gasketed integral bell & spigot joint meeting the requirements of CSA B182.13.

750 to 1500mm (30"-60") shall be watertight according to the requirements of CSA B182.13. Spigot shall have two gaskets meeting the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable, protective wrap to ensure the gaskets are free from debris. A joint lubricant available from the manufacturer shall be used on the gasket and bell during assembly.

750 to 1500mm (30"-60") diameters shall have a reinforced bell with a polymer composite band installed by the manufacturer.



Fittings shall conform to CSA B182.13. Bell & spigot connections shall utilize a spun-on, welded or integral bell and spigot with gaskets meeting ASTM F477. Fitting joints shall meet the watertight joint performance requirements of CSA B182.13.

# (Check with a sales representative for regional product configuration.)

BELL BANDING

ASTM F477

## FIELD PIPE AND JOINT PERFORMANCE

To assure 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. Contact the manufacturer for recommended leakage rates.

### **MATERIAL PROPERTIES**

Polypropylene compound for pipe and fitting production shall be an impact modified copolymer meeting the material requirements of CSA B182.13.

### **INSTALLATION**

Installation shall be in accordance with CSA B182.11 and ADS recommended installation guidelines, with the exception that minimum cover in traffic areas for 750 to 1200mm (30"-48") diameters shall be 0.3m (1 foot) and for 1500mm (60") diameter the minimum cover shall be 0.6m (2 foot) in single run applications. Backfill for minimum cover situations shall consist of Class 1 or Class 2 (minimum 90% SPD) material. Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.05C. Contact your local ADS representative or visit our website at **www.ads-pipe.com** for a copy of the latest installation guidelines.

## **PIPE DIMENSIONS**

| Nominal Diameter mm  | 750         | 900         | 1050*       | 1200        | 1500        |  |
|--|-------------|-------------|-------------|-------------|-------------|--|
| (in.)  | (30)        | (36)        | (42)        | (48)        | (60)        |  |
| Pipe I.D. mm   | 765         | 907         | 1062        | 1201        | 1506        |  |
| (in.)  | (30.1)      | (35.7)      | (41.8)      | (47.3)      | (59.3)      |  |
| Pipe O.D. mm   | 899         | 1044        | 1119        | 1367        | 1689        |  |
| (in.)  | (35.4)      | (41.1)      | (47.2)      | (53.8)      | (66.5)      |  |
| Minimum Pipe Stiffness at 5% Deflection**kN/m² (#/in./in.) | 320<br>(46) | 320<br>(46) | 320<br>(46) | 320<br>(46) | 320<br>(46) |  |

<sup>\*</sup>Check with sales representative for availability.



<sup>\*\*</sup>Minimum pipe stiffness values listed; contact a representative for maximum values.

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