ADS SANITITE® HP 12”- 30” PIPE SPECIFICATION

Scope
This specification describes 12- through 30-inch (300 to 750 mm) ADS SaniTite HP pipe for use in gravity-flow sanitary sewer applications.

Pipe Requirements
ADS 12” – 30” (300 to 750mm) SaniTite HP pipe shall have a smooth interior and annular exterior corrugations.

- 12- through 30-inch (300 to 750 mm) pipe shall meet ASTM F2736
- 12- through 30-inch (300 to 750 mm) pipe shall have a minimum pipe stiffness of 46 pii 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 ASTM F2736.

12- through 30-inch (300 to 750 mm) shall be watertight according to the requirements of ASTM D3212. 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.

12- through 30-inch (300 to 750 mm) diameters shall have a reinforced bell with a polymer composite band installed by the manufacturer.

Fittings
Fittings shall conform to ASTM F2736. 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 ASTM D3212.

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 ASTM F2736, Section 4.

Installation
Installation shall be in accordance with ASTM D2321 and ADS recommended installation guidelines, with the exception that minimum cover in traffic areas for 12- through 30-inch (300 to 750 mm) diameters shall be one foot (0.3 m) 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 2.05. 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, in (mm)					
Pipe I.D. in (mm)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)
Pipe O.D. in (mm)	14.5 (368)	17.6 (447)	21.2 (538)	28.0 (711)	35.4 (899)
Minimum Pipe Stiffness @ 5% Deflection* #/in./in. (kN/m^2)	75 (520)	60 (411)	56 (385)	50 (343)	46 (320)

* Minimum pipe stiffness values listed; contact a representative for maximum values

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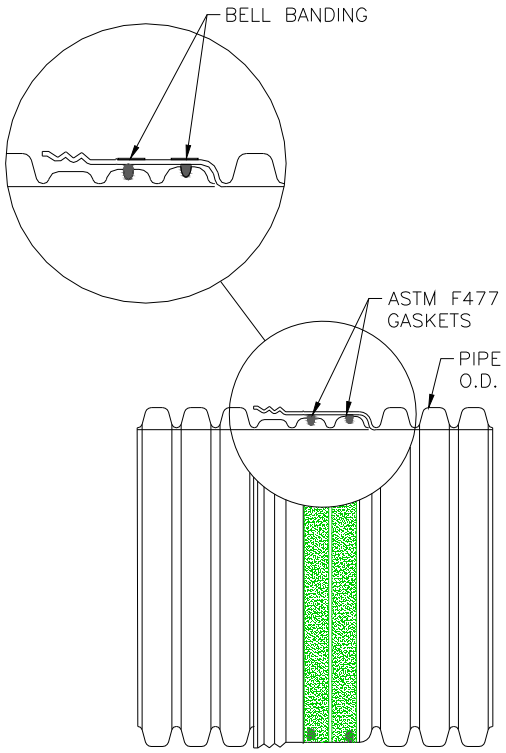
SANITITE® HP 12” – 30” PIPE JOINT SYSTEM

(Joint configuration & availability subject to change without notice. Product detail may differ slightly from actual product appearance.)



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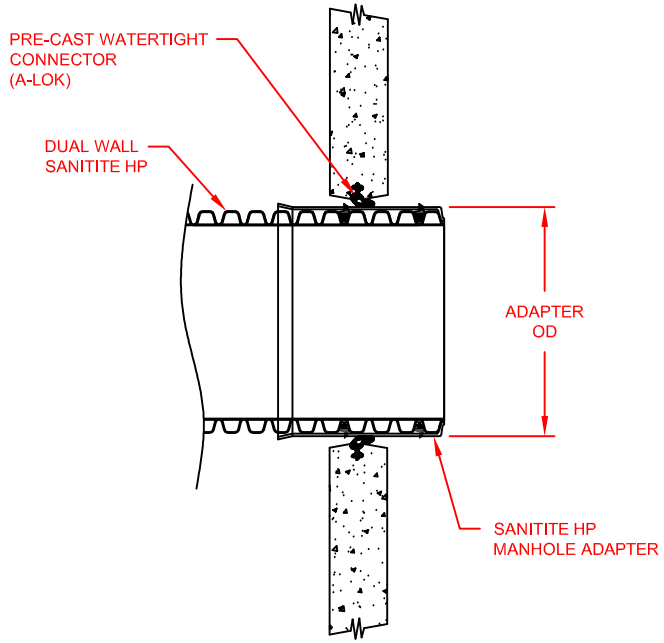
12"-24" DUAL WALL SANITITE HP WATERTIGHT CONNECTION USING A PRE-CAST COMPRESSION GASKET

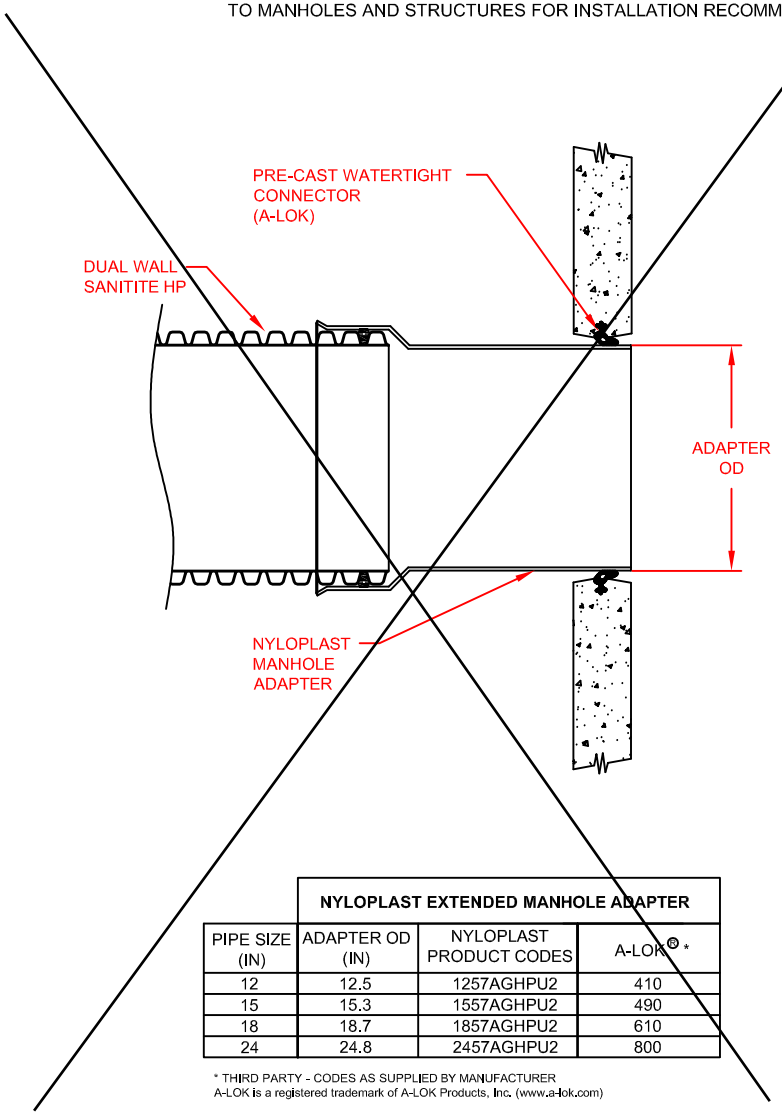
NOTES:
PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST ENSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONS MUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.

SEE STANDARD DETAIL STD-201 AND TECHNICAL NOTE: 5.04 CONNECTIONS TO MANHOLES AND STRUCTURES FOR INSTALLATION RECOMMENDATIONS.



	SANITITE HP MANHOLE ADAPTER		
PIPE SIZE (IN)	ADAPTER OD (IN)	ADS ADAPTER PRODUCT CODES	A-LOK® PREMIUM *
12	15.3	1222AAPP	490
15	18.3	1522AAPP	580
18	22.0	1822AAPP	710
24	29.0	2422AAPP	915

* THIRD PARTY - CODES AS SUPPLIED BY MANUFACTURER
A-LOK is a registered trademark of A-LOK Products, Inc. (www.a-lok.com)



	NYLOPLAST EXTENDED MANHOLE ADAPTER		
PIPE SIZE (IN)	ADAPTER OD (IN)	NYLOPLAST PRODUCT CODES	A-LOK® *
12	12.5	1257AGHPU2	410
15	15.3	1557AGHPU2	490
18	18.7	1857AGHPU2	610
24	24.8	2457AGHPU2	800

* THIRD PARTY - CODES AS SUPPLIED BY MANUFACTURER
A-LOK is a registered trademark of A-LOK Products, Inc. (www.a-lok.com)

REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
7	UPDATED INFO & REVISED GASKETS	TJR	10/11/13	

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ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

WATERTIGHT STRUCTURE 12"–24" SANITARY DETAIL

DRAWING NUMBER: STD–205A

ADS ADVANCED DRAINAGE SYSTEMS, INC.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

DRAWN BY:	JAB
DATE:	4/3/09
CK'D BY:	
SCALE:	NTS
SHEET	1 OF 1

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

DEVIN D GATES
SUBMITTED BY

221313-001
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

221313
SPECIFICATION SECTION / PARAGRAPH

ADS
MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

☐ CRITICAL

ITEM BEING SUBMITTED (check only one)

- ☐ Shop Drawings
- ☐ Samples (_____ copies)
- ☐ LEED Submittal
- ☐ Certification / Qualifications
- ☐ Record Documents
- ◉ Product Data
- ☐ Coordination Drawing
- ☐ Calculations
- ☐ Schedules
- ☐ O&M Manuals
- ☐ Other _____

ITEM BEING SUBMITTED FOR (check only one)

- ◉ Action
- ☐ Information Only
- ☐ Record

REMARKS OR DEVIATIONS

Pending approval of substitution request 15.

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

DEVIN D GATES
REVIEWED BY

042216
DATE

To be completed by Reviewer

22 1313-001
CANNON DESIGN SUBMITTAL NUMBER

4/26/16
RECEIVED DATE

- ◉ A. No Exceptions Taken
  No further review of submittal is required.
- ☐ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ☐ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ☐ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ☐ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ☐ F. Not Required for Review
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS

☐ See attached sheet(s) for additional comments

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0024

Paric Corporation

PROJECT: Webster University Interdisciplinary Science Building

DATE: 04/25/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Facility sanitary sewers product data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☐ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☑ Other:	☐ Separate Cover Via:	☑ Due Date: 08/26/2016

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		221313-001	1		04/25/2016	Facility sanitary sewers product data	Open

NOTES:

CC:

Signed: _____

Devin Gates