

## ADS SINGLE WALL HEAVY DUTY PIPE SPECIFICATION

### Scope

This specification describes 3- through 24-inch (75 to 600 mm) ADS single wall high density corrugated polyethylene heavy duty pipe for use in gravity-flow land drainage applications.

### Pipe Requirements

ADS single wall high density corrugated polyethylene heavy duty pipe shall have annular interior and exterior corrugations.

- 3- through 24-inch (75 to 600 mm) pipe shall meet ASTM F667.

### Joint Performance

Joints for 3- to 24- inch (75 – 600 mm) shall be made with split or snap couplings. Standard connections shall meet the requirements of the ASTM F667. Gasketed connections shall incorporate a closed-cell synthetic expanded rubber gasket meeting the requirements of ASTM D1056 Grade 2A2. Gaskets, when applicable, shall be installed by the pipe manufacturer.

### Fittings

Fittings shall conform to ASTM F667.

### Material Properties

Pipe and fitting material shall be high density polyethylene conforming with the minimum requirements of cell classification 323410C or 333410C as defined and described in the latest version of ASTM D3350.

### Installation

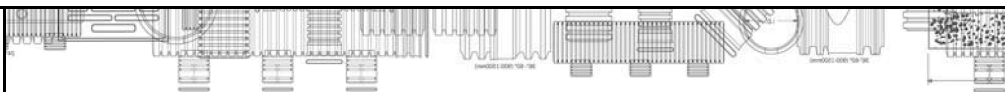
Installation shall be in accordance with ASTM D2321 and ADS recommended installation guidelines, with the exception that minimum cover in trafficked areas for 3- through 24-inch (75 to 600 mm) diameters shall be one foot (0.3 m). Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.03. Contact your local ADS representative or visit our website at [www.ads-pipe.com](http://www.ads-pipe.com) for a copy of the installation guidelines.

### Pipe Dimensions

Nominal Diameter, in (mm)										
Pipe I.D. in (mm)	3 (75)	4 (100)	5 (125)	6 (150)	8 (200)	10 (250)	12 (300)	15 (375)	18 (450)	24 (600)
Pipe O.D.* in (mm)	3.6 (91)	4.6 (117)	5.8 (147)	7.0 (178)	9.5 (241)	12.0 (305)	14.5 (368)	18.0 (457)	22.0 (559)	28.0 (711)

\*Pipe O.D. values are provided for reference purposes only, values stated for 12 through 24-inch are  $\pm 1$  inch. Contact a sales representative for exact values

\*\*All diameters available with or without perforations.



# TECHNICAL NOTE

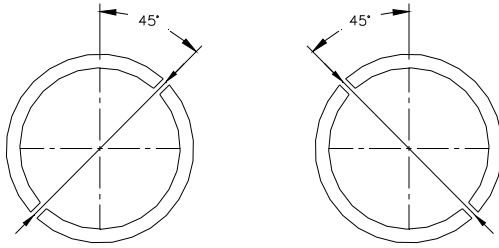
Single Wall HDPE Perforation Patterns

TN 1.02  
October 2018

Nominal I.D.		Perforation Type	Maximum Slot Length or Diameter		Maximum Slot Width		Minimum Inlet Area		Pattern Type
in	mm		in	mm	in	mm	in <sup>2</sup> /ft	cm <sup>2</sup> /m	
3	75	Slot	0.875	22	0.120	3	1.0	21	A
3	75	Fine Slot	0.875	22	0.015	0.4	0.3	6	A
4	100	Slot	0.875	22	0.120	3	1.0	21	B
4	100	Fine Slot	0.875	22	0.015	0.4	0.3	6	B
5	125	Slot	0.875	22	0.120	3	1.0	21	B
5	125	Fine Slot	0.875	22	0.015	0.4	0.3	6	B
6	150	Slot	0.875	22	0.120	3	1.0	21	B
6	150	Fine Slot	0.875	22	0.015	0.4	0.3	6	B
8	200	Slot	1.18	30	0.120	3	1.0	21	B
10	250	Slot	1.18	30	0.120	3	1.0	21	B
12	300	Slot	1.50	38	0.118	3	1.5	32	B
12	300	Circular	0.313	8	-	-	1.5	32	C
15	375	Circular	0.313	8	-	-	1.5	32	C
18	450	Circular	0.313	8	-	-	1.5	32	C
24	600	Circular	0.313	8	-	-	2.0	42	D

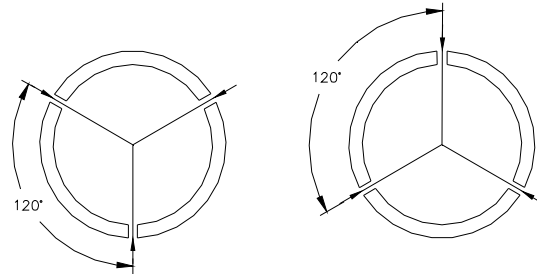
The data provided above is representative of the most common pattern supplied by ADS. Actual perforation count and dimensions may vary based on regional-specific requirements; product will still comply with respective product ASTM and AASHTO product standards.

TYPE A PATTERN



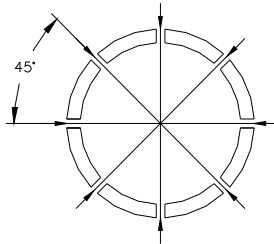
2 SLOT PATTERN  
PERFORATIONS  
ROTATED 90° EVERY  
OTHER VALLEY

TYPE B PATTERN



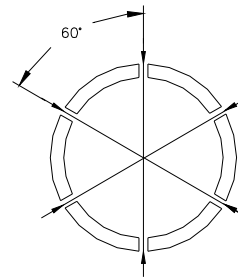
3 SLOT PATTERN  
PERFORATIONS  
ROTATED 60° EVERY  
OTHER VALLEY

TYPE C PATTERN



8 HOLE PATTERN

TYPE D PATTERN



6 HOLE PATTERN

## ADS FILTER SOCK SPECIFICATION

### Scope

This specification describes 2- through 48-inch (50- to 1200 mm) ADS SOCK synthetic wrap.

### Filter Fabric Requirements

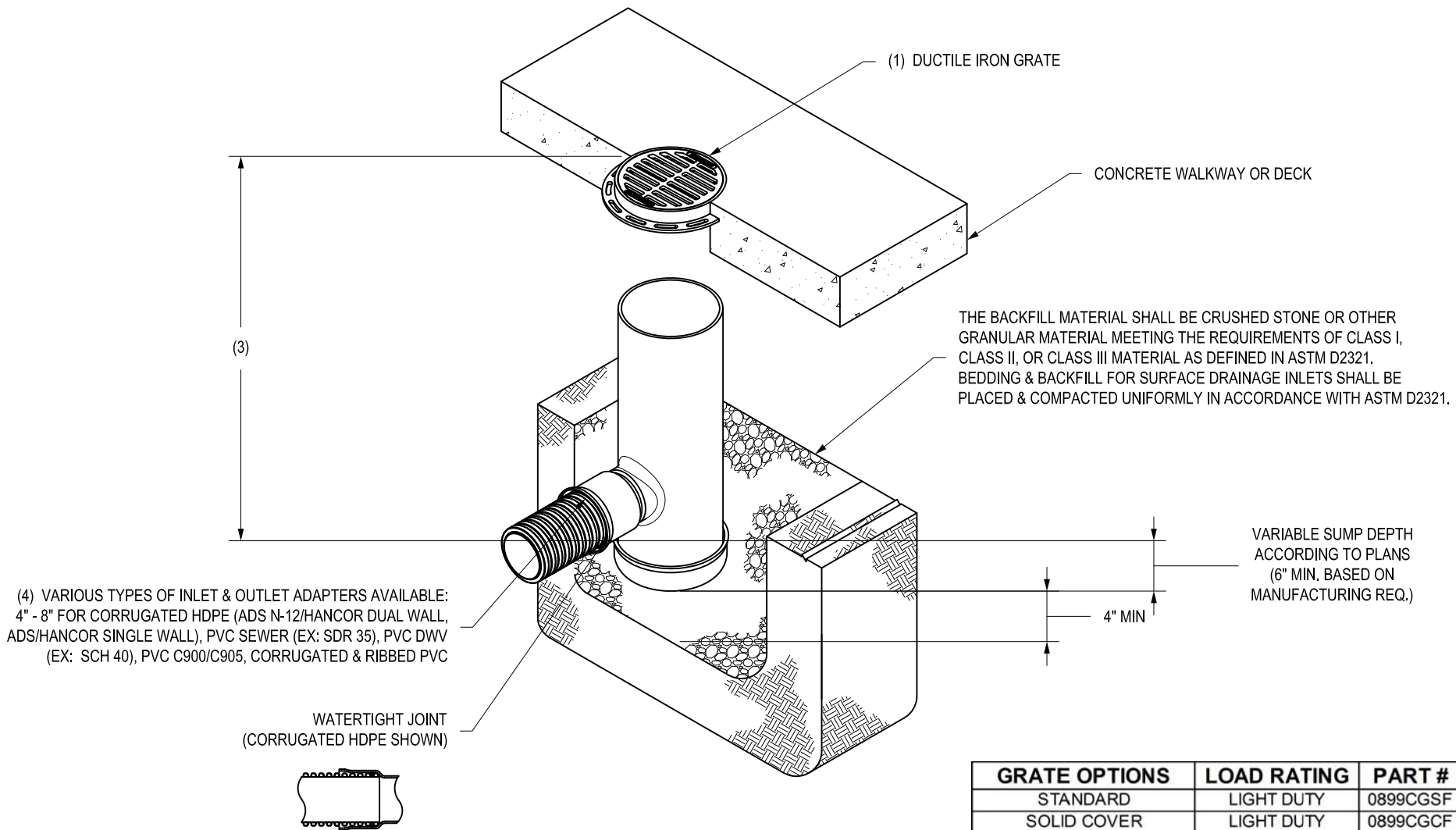
The ADS SOCK shall meet the requirements of ASTM D6707.

ADS sock products as listed on this specification meet Ontario Provincial Standard Specification 1860, Material Specifications for Geotextiles, dated March 1998.

### Filter Fabric Properties

Property	Test Method	
Material	-	Polyester
Fabric	-	Knitted
Permittivity (min.)	ASTM D4491	5.5 sec <sup>-1</sup>
Puncture Resistance (min.)	ASTM D6241	1000 N
AOS (max.)	ASTM D4751	0.600 mm 30 U.S. Sieve
FOS (max.)	CAN/CGSB-148.1, M10-94	450 microns
Mass (relaxed)	ASTM D3887	3.0-3.9 oz/yd <sup>2</sup> 101.7-132.2 g/cm <sup>2</sup>
Mass (applied minimum)		2.7-3.5 oz/yd <sup>2</sup> 91.5-118.7 g/cm <sup>2</sup>
Thickness (min.)	ASTM D4491	24.0 mils 609.6 microns
Permeability (K) (min.)	ASTM D4491	0.390 cm/sec
Burst Strength (min.)	ASTM D3786	760 kpa
Air Permeability (min.)	ASTM D737	700 ft <sup>3</sup> /ft <sup>2</sup> /min 213 m <sup>3</sup> /m <sup>2</sup> /min
Water Flow Rate (min.)	ASTM D4491 (2" constant head)	300 gal/min/ft <sup>2</sup> 12,224 L/min/m <sup>2</sup>
Yarn Denier	-	150
Specific Gravity	-	1.3
Melt Temperature	-	450° F 232° C

# NYLOPLAST 8" DRAIN BASIN: 2808AG \_\_ X



GRATE OPTIONS	LOAD RATING	PART #
STANDARD	LIGHT DUTY	0899CGSF
SOLID COVER	LIGHT DUTY	0899CGCF
BRONZE	N/A	0899CGBF
DOME	N/A	0899CGDF
DROP IN GRATE	LIGHT DUTY	0801DI

- 1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
- 2 - CUSTOM DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
- 3 - STANDARD DRAIN BASIN HAS FIXED ADAPTER LOCATIONS OF 0° & 180°. CUSTOM DRAIN BASIN ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL) & PVC SEWER (4" - 24").

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DRAWN BY NMH  
DATE 6-25-18  
APPD BY NMH  
DATE 6-25-18  
DWG SIZE A

MATERIAL  
PROJECT NO./NAME  
SCALE 1:12 SHEET 1 OF 1

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TITLE  
8 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL  
DWG NO. 7001-110-272 REV F