

ENDOT INDUSTRIES
PIPE AND TUBING PRODUCTS

GREEN SEWER PIPE

Sewer Line Pipe (Copper Tube Size - CTS) - ASTM D2737-12
Sewer Line Pipe (OD Controlled - IPS) - ASTM D3035-06

APPLICABLE STANDARDS:
Produced with NSF Listed Resin - PE 4710
Cell Classification 445574E (UV Stabilized)
Conforms as SODR 9 & 11 (IPS) SODR 9 CTS
Conforms as SODR 9 & 11 (IPS) SODR 9 CTS
Meets PE 4710 Requirements For SDR 9
Meets PE 4710 Requirements For SDR 9, 11

GREEN SEWER SERVICE TUBING (CTS) - ASTM D2737

Size	STANDARD OUTSIDE DIMENSION RATIO (SDR) = 9 - 250 PSI				Part Number
	Nominal O.D.	Nominal I.D.	Min. Wall	Weight Per 100'	
3/4"	0.875	0.681	.097	10.5	PSP07541010009
1"	1.125	0.875	.125	17.1	PSP10041010009
1 1/4"	1.375	1.059	.153	25.5	PSP12541010009
1 1/2"	1.625	1.263	.181	35.3	PSP15041010009
2"	2.125	1.633	.236	61.0	PSP20041010009

Size	GREEN SEWER SERVICE PIPE (IPS - OD CONTROLLED) - ASTM D3035				Part Number
	Nominal O.D.	Nominal I.D.	Min. Wall	Weight Per 100'	

Size	STANDARD OUTSIDE DIMENSION RATIO (SDR) = 9 - 250 PSI				Part Number
	Nominal O.D.	Nominal I.D.	Min. Wall	Weight Per 100'	
3/4"	0.875	0.681	.097	10.5	PSP07541010016
1"	1.125	0.875	.125	17.1	PSP10041010016
1 1/4"	1.375	1.059	.153	25.5	PSP12541010016
1 1/2"	1.625	1.263	.181	35.3	PSP15041010016
2"	2.125	1.633	.236	61.0	PSP20041010016

Size	STANDARD OUTSIDE DIMENSION RATIO (SDR) = 11 - 200 PSI				Part Number
	Nominal O.D.	Nominal I.D.	Min. Wall	Weight Per 100'	
3/4"	0.875	0.681	.097	10.5	PSP07541010014
1"	1.125	0.875	.125	17.1	PSP10041010014
1 1/4"	1.375	1.059	.153	25.5	PSP12541010014
1 1/2"	1.625	1.263	.181	35.3	PSP15041010014
2"	2.125	1.633	.236	61.0	PSP20041010014

WARRANTY
Certification of Purity and Laboratory Warranty - See Warranty for Details

ENDOT INDUSTRIES, INC.
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TENNESSEE OPERATIONS: 400 Beaman Avenue, Greenville, TN 37745 - 800 438 5851 - FAX 423 639 3722
OKLAHOMA OPERATIONS: Mid America Industrial Park, Pryor Creek, OK 74361 - 800 443 6368 - FAX 973 625 4087

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BEND RADIUS CALCULATIONS
FOR PIPE

The table below assumes a perfectly round pipe at ambient temperature of 73.4° F and summarizes recommended bend ratios for various SDR pipe operating at 73.4° F.

SDR	Minimum Allowable Bend Radius Ratio 73.4° F
17.0	>27 times outside diameter
15.5	>27 times outside diameter
13.5	>25 times outside diameter
11.0	>25 times outside diameter
9.0	>20 times outside diameter

The above table includes a safety factor of 2:1. The bend radius is calculated as follows. For example, if a 4.50" diameter SDR 11 pipe was to be bent, the minimum bend radius is:

$$Ra = Do \times 25 \\ Ra = Ra / Do \times Do \\ Ra = 112.5" \text{ minimum Radius of Curvature} \\ Ra = 9.4'$$

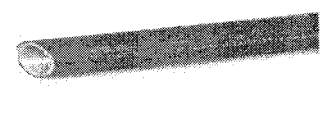
Fittings: If Tees, Elbs, Flanges, or socket fusion joints are located in the bend zone, the minimum bend radius of curvature should be increased to forty (40) times the outside diameter of the pipe.

Temperature Effect: while temperature does not significantly affect thick wall, low SDR pipes, the sun heating the top of the pipe while the underside of the pipe is cooler can affect thin-wall higher SDR pipes. With significant heating due to sun exposure it is advisable to increase the bends radius.

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HDPE GREEN SEWER PIPE

HDPE pipe and tubing is an excellent choice for force main sewage or grinder pump applications because of its chemical and corrosion resistance. Endot has recognized the need for such applications and offers Green Sewer Pipe produced from Virgin PE4710 resin.

Utilizing the same co-extrusion process used to make our widely accepted Endopure potable water products, we have once again met the emerging demand for specifiable, color-coded, identification of buried underground utility lines.

Endot Green Sewer Pipe and Tubing has the following features:

- Produced from 100% Virgin NSF Certified PE4710 HDPE Resin
- Green exterior shell co-extruded over a virgin clear HDPE core clearly identifies the pipe for sewage and non potable waste water applications only, minimizing harmful cross contamination errors that could occur in the field
- UV Protected for outdoor storage and to prevent sunlight deterioration
- Long seamless coil lengths ensures a leak free system
- Consecutive footage marks every 2 feet
- Permanent indent printing
- Minimum four point coil taping every 100 feet of pipe
- Available with an optional tracer wire for ease of underground location (See our EndoTrace product)

Green Sewer Pipe is available in the following HDPE ASTM Standards from 1" - 2"
• ASTM D3035 IPS OD Controlled - SDR 11 200PSI
• ASTM D2737 CTS - SODR 9 250PSI

For more information regarding Endot Green Sewer Pipe or any Endot HDPE products, please contact your local Endot Sales Representative or contact us directly at 1-800-44ENDOT or email to info@endot.com

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Asbuilt: 06/09/2021

I Hereby Certify That The Work Was Done In Accordance With These Documents, With Reasonable Accuracy, And That Any Deviations Have Been Red-Line Annotated Or Otherwise Captured In Change Order Documentation.

Contractor's Signature,

Date:

CFF Properties, LLC

6-17-21

PIERSON
ENGINEERING
&
SURVEYING

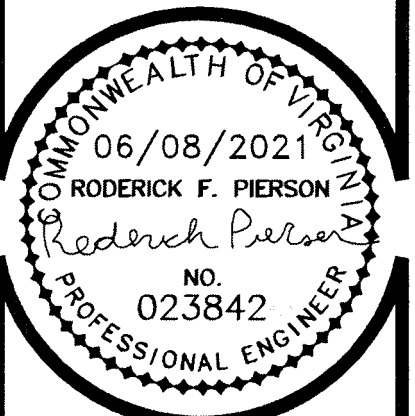
P.O. BOX 311
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NOTE: PROJECT ALSO REFERENCED AS
BRINKMAN SEWER EXTENSION

SEWER SYSTEM DESIGN
FOR
CFF PROPERTIES, LLC
BOTETOURT COUNTY, VIRGINIA

PLAN SHEET
ASBUILT



COMMISSION
R2019171
SHEET
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