

## BORE-GARD/HDPE COMPARISON

### Four Inch Comparison

Purpose: The purpose of the following information is intended to enable dimensional and performance comparison of Bore-Gard PVC Trenchless Raceway to competing HDPE pipe. Information is subject to change. Questions regarding the information should be E-mailed to [techinfo@carlon.com](mailto:techinfo@carlon.com).

Feature	4 inch PVC Bore-Gard	4 inch HDPE SDR 13.5
<b>Specifications</b>		
Bend Radius Rating (ft.)	65	5
Stiffness (lb./in./in. @5%)	600	n/a
Yield Strength (lbs.)	10,500 lb.	8,500
Ultimate Tensile Strength (lbs.)	12,100 lb <sup>3</sup>	12,500
Max. Axial Load Rating (lbs.)	8,700 <sup>2</sup>	12,500
Seal Pressure Rating	75 psi <sup>4</sup>	-
Weight per foot	2.34	1.90
<b>Dimensions</b>		
Pipe O.D.	4.5	4.5
Pipe I.D.	4.0	3.834
Joint O.D.	5.0	4.88
Pipe Wall Thickness	0.250	0.333
<b>Joining Method</b>		
Joint Type	Integral Bell with Restrained Joint	Fusion Welded
<b>Packaging</b>		
Package Type	Bundle	Reel
Package Weight	616 lbs. / 1216 lbs.	1,400 lbs.
Package Size	10 ft: 11.0'L x 3.5' W x 1.25' H 20 ft.: 21'L x 3.5' W x 1.25' H	96 in. x 43 in.
Feet per Package	260 ft. / 520 ft.	625 ft.
Feet per Truckload	14,560 ft.	5,000 ft.

**Note:**

1. No stiffness value (at 5% diameter deflection) available.
2. Axial load rating at 65 foot bend radius.

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3. Ultimate tensile strength when pulled straight (no bend radius).
4. Pressure rating at worst case 65 foot bend radius.

#### Six Inch Comparison

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Feature	6 inch PVC SCH 40 Bore-Gard	6 inch HDPE SDR 13.5	6 inch HDPE SDR 11
Specifications			
Bend Radius Rating (ft.)	65	5	5
Stiffness (lb./in./in. @5%)	443	160 psi <sup>1</sup>	128 psi <sup>1</sup>
Max. Axial Load Rating (lbs.)	18,000 <sup>2</sup>	24,500 <sup>3</sup>	29,500 <sup>3</sup>
Seal Pressure Rating	75 psi <sup>4</sup>	-	-
Weight per foot (lb.)	4.18	4.03	4.86
Dimensions			
Pipe O.D. (inches)	6.625	6.625	6.625
Pipe I.D. (inches)	6.0	5.610-5.643	5.385-5.421
Joint O.D. (inches)	7.2	7.2	7.2
Pipe Wall Thickness (inches)	0.280	0.491	0.603
Joining Method			
Joint Type	Integral Bell with Restrained Joint	Fusion-Welded	Fusion-Welded
Packaging			
Package Type	Bundle	Reel	Bundle
Package Weight (lbs.)	1,670 / 3,340	1,500 & 2,300	3,888
Package Size	10 ft: 11.0'L x 50.5" W x 1.7' H	10 ft. dia. x 48 in. w	40 ft Length x 24 pcs

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	20 ft.: 21'L x 4.2' W x 1.7' H	10 ft. dia. x 76 in. w	
Feet per Package	200 / 400	300 & 500	960
Feet per Truckload	8,000	2,000	6,720-9,600

Note:

1. No HDPE stiffness value (at 5% diameter deflection) available; Soil Pressure Rating in Pounds per Square Inch given by manufacturer.
2. Axial load rating at 65 foot bend radius.
3. Axial load rating with no bend radius.
4. Pressure rating at worst case 65 foot bend radius.