

TECHNICAL SHEET

VERSAPIPE® STD

Low Density Polyethylene Pipe for Wastewater and Others

Scope

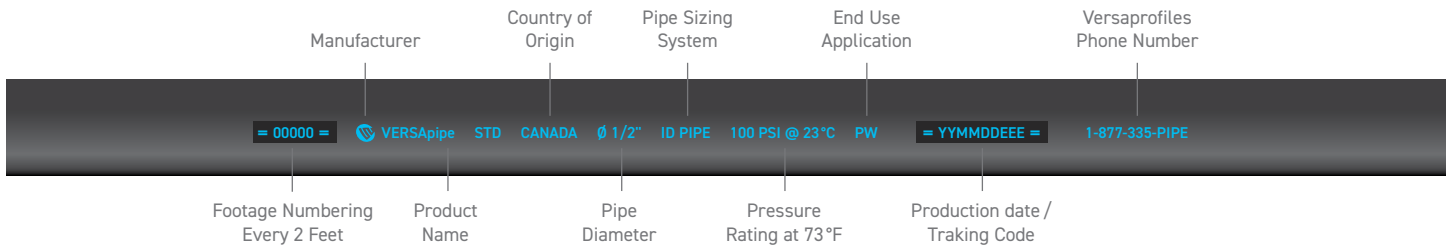
This technical data sheet designates the properties of the **VERSAPIPE® STD** low density polyethylene pipe for use in wastewater transport applications and other uses. It describes the minimum requirements established by **Versaprofiles** for the design and manufacture of a pipe especially created for wastewater applications. This pipe is intended and recommended for use at a temperature rating of 23°C (73°F), however occasional exposure to temperatures up to 50°C (120°F) is acceptable.

Raw Material

All **VERSAPIPE® STD** pipes are manufactured from low density polyethylene. The raw material is filled with carbon black as an ultra violet inhibitor allowed the pipe to be stored outside.

Printline

Versaprofiles VERSAPIPE® STD pipe is identified with permanent marking and sequential footage numbering every two (2) feet.



Handling, joining and installation

Do not drag or roll **VERSAPIPE® STD** pipe across rocks or rough ground. Installation and backfill practices for **VERSAPIPE® STD** pipe in trench should comply with guidelines prepared by the Plastics Pipe Institute (PPI)¹.

¹ <http://plasticpipe.org/pdf/chapter07.pdf>

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info@versaprofiles.com 1 877 335 7473



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STANDARD PRODUCT SIZES¹

Color : Black

Nominal Pipe Size in	Minimum Inside Diameter po (mm)	Maximum Inside Diameter po (mm)	~ 75 PSI			~ 100 PSI		
			Minimum Wall Thickness in (mm)	Tolerance ± in (mm)	Weight for 100 ft lb (kg)	Minimum Wall Thickness in (mm)	Tolerance ± in (mm)	Weight for 100 ft lb (kg)
1/2	0,610	0,634	0,070	0,007	6,4	0,089	0,009	8,4
	(15,5)	(16,1)	(1,78)	(0,18)	(2,9)	(2,26)	(0,22)	(3,8)
3/4	0,807	0,835	0,085	0,009	10,2	0,118	0,012	14,7
	(20,5)	(21,2)	(2,16)	(0,22)	(4,6)	(3,0)	(0,3)	(6,7)
1	1,028	1,059	0,108	0,011	16,4	0,150	0,015	23,6
	(26,1)	(26,9)	(2,74)	(0,28)	(7,5)	(3,8)	(0,38)	(10,7)
1 ¼	1,358	1,390	0,143	0,014	28,6	0,197	0,020	40,9
	(34,5)	(35,3)	(3,62)	(0,36)	(13,0)	(5,0)	(0,5)	(18,6)
1 ½	1,591	1,626	0,166	0,017	39,0	0,230	0,023	55,9
	(40,4)	(41,3)	(4,22)	(0,42)	(17,7)	(5,84)	(0,58)	(25,4)
2	2,047	2,083	0,214	0,021	64,5	0,294	0,029	91,9
	(52,0)	(52,9)	(5,44)	(0,54)	(29,3)	(7,48)	(0,74)	(41,8)

THERMAL EXPANSION CALCULATION

$\Delta L = L \alpha \Delta T$

Where
 ΔL = Pipeline Length Variation, ft
 L = Pipe Length, ft
 α = 12×10^{-5} (Linear Thermal Expansion coefficient, in/[in °F])
 ΔT = Temperature Variation, °F

TEMPERATURE COMPENSATING MULTIPLIER

Maximum Pipe Sustained Temperature		Compensating Multiplier
°F	°C	
-20	-29	2,54
-10	-23	2,36
0	-18	2,18
10	-12	2,00
20t	-7	1,81
30	-1	1,65
40	4	1,49
50	10	1,32
60	16	1,18
73,4	23	1,00
80	27	0,93
90	32	0,82
100	38	0,73
110	43	0,64
120	49	0,58
130	54	0,50
140	60	0,43

FLUID VOLUME CALCULATION

$V = \pi r^2 L$

Where
 V = Volume, ft³ (m³)
 π = 3,1416...
 r = Pipe Inside Radius (ID/2), ft (m)
 L = Pipe Length, ft (m)

For Weight Calculation, $W = V D$
 Where
 W = Weight, lb
 V = Calculated Volume, ft³
 D = Fluid Density, lb/ft³

¹ Ask your account manager about the availability of the displayed sizes. Versaprofiles may also offer options that are not listed in this document.

PACKAGING TYPE AND STANDARD LENGTHS

Nominal Diameter in ¹	Packaging Type	Length ft ²	Skid Size in	Number of Coils/Reels per Skid	Total Height po
1/2	Coil	100	48 x 40	12	55
		400		6	79
	TITAN™ Reel	3 000		2	65
3/4	Coil	100	48 x 40	10	80
		400		6	74
	TITAN™ Reel	2 500		2	65
1	Coil	100	48 x 40	10	72
		300		6	74
	TITAN™ Reel	1 500		2	65
1 1/4	Coil	100	48 x 40	10	89
		300		5	89
	TITAN™ Reel	1 000		2	65
1 1/2	Coil	100	48 x 40	10	89
		250		5	89
	TITAN™ Reel	900		2	65
2	Coil	100	60 x 60	5	89
		250		5	89



¹Other diameters & DR available on request. ²Other roll and coil lengths available on request.

References: Plastics Pipe Institute (PPI), http://plasticpipe.org/publications/pe_handbook.html

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About Versaprofiles

With over 50 years of experience in thermoplastic extrusion, **Versaprofiles** offers innovation to make your job easier and lighten your workload. We are producing pipe and tubing for maple sap, geothermal, water and natural gas distribution applications in addition of specializing into custom made profiles. With our collective expertise in various sectors and our versatile equipment, we can bring your projects to higher level. We work closely and in a friendly atmosphere with each partner to deliver products that meet expectations and provide dedicated customer service.



References: Plastic Pipe Institute (PPI), http://plasticpipe.org/publications/pe_handbook.html

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