

DIAMOND PLASTICS CORPORATION

D3034 & F679 SEWER SPECIFICATIONS DATA

PVC Pipe for the 21st Century™

Product Description:

Diamond gravity sewer pipe 4 inches through 48 inches shall be made of compounds conforming to material requirements of ASTM D3034 and ASTM F679 (Annex) in accordance with ASTM D1784. Diamond PVC Sewer Pipe meets all the dimensional, chemical, and physical requirements as outlined in ASTM D3034 and ASTM F679.



The pipe sizes 4 inches through 48 inches are made with an integral bell "water-tight" joint that meets the requirements of ASTM D3212 and that utilizes a Rieber gasket system for sealing that meets the requirements of ASTM F477.

Each male end shall be beveled to facilitate joining and referencing marked for proper insertion depth. Diamond furnished lubricant is to be used in the joining process.

Physical Properties:

ASTM D3034 & ASTM F679

Pipe Materials:

Pipe shall be made of PVC plastic having a minimum cell classification of 12454 or 12364 as defined in Specification D1784.

Property	Properties of PVC 12364	
	ASTM	Minimum Test
Specific Gravity	D792	1.47
Tensile Strength, psi	D638	6,000
IZOD Impact Strength	D256	.65 Ft.,lb./in. of notch

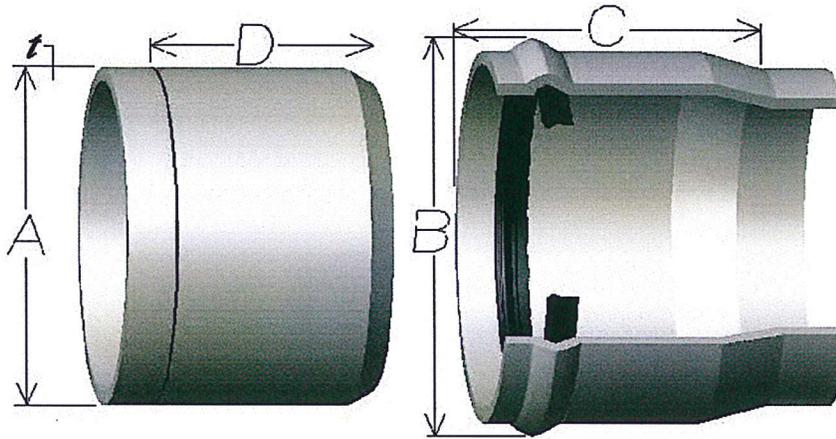
**SHORT FORM
Specification for Diamond
PVC Solid-Wall Sewer Pipe
SDR 26 or SDR 35 or PS 46 or PS 115**

Diamond PVC Solid-Wall Sewer Pipe shall be made of compounds conforming to ASTM D1784 manufactured in accordance with the material requirements of ASTM D3034 or ASTM F679. Diamond PVC Sewer Pipe must meet all dimensional, chemical, and physical requirements as outlined in ASTM D3034 and ASTM F679 or ASTM F679 ANNEX. Diamond PVC Sewer Pipe shall be installed according to the requirements of ASTM D2321, Joints shall meet the requirements of ASTM D3212 and shall be formed using Rieber Technology. Uni-Bell UNI-PUB 6, "and the manufacturer's requirements

Pipe SDR	Pipe Stiffness	
	Modulus E = 400,000	E = 500,000
41	28	35
35	46	57
26	115	144

ASTM D3034 & F679 Specification Data

Rieber Joint Illustration



Standard Laying Lengths are 14' & 20'

D3034 Pipe Dimensions

Nominal Pipe Size	Outside Diameter A	Bell Socket Diameter B	Socket Depth C	Insert Mark D	Wall Thickness SDR 26 (t)	Wall Thickness SDR 35 (t)
4	4.215	5 1/4	4 5/8"	4	0.162	0.120
6	6.275	7 1/2	4 3/4"	4	0.241	0.180
8	8.400	9 7/8	6 1/8"	5	0.323	0.240
10	10.500	12 3/8	6 3/4"	6	0.404	0.300
12	12.500	14 5/8	7 1/4"	6	0.481	0.360
15	15.300	18	6 3/4"	6	0.588	0.437

F679 & Annex Pipe Dimensions

Nominal Pipe Size	Outside Diameter A	Bell Socket Diameter B	Socket Depth C	Insert Mark D	Wall Thickness PS 115 (t)	Wall Thickness PS 46 (t)
18	18.701	21 3/4"	7 3/4"	7"	0.719	0.499
21	22.047	25 1/2"	7 3/4"	7"	0.848	0.588
24	24.803	28 3/4"	8 1/2"	7 1/4"	0.954	0.661
27	27.953	32 1/2"	8 1/2"	7 1/4"	1.075	0.745
30 _{ciod}	32.000	37 1/4"	12"	10"	1.231	0.853
36 _{ciod}	38.300	43 1/4"	12"	10"	1.473	1.021
42 _{ciod}	44.500	53"	16"	13"		1.187
48 _{ciod}	50.800	60"	16"	13"		1.355

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