

VULCAN PLASTICS



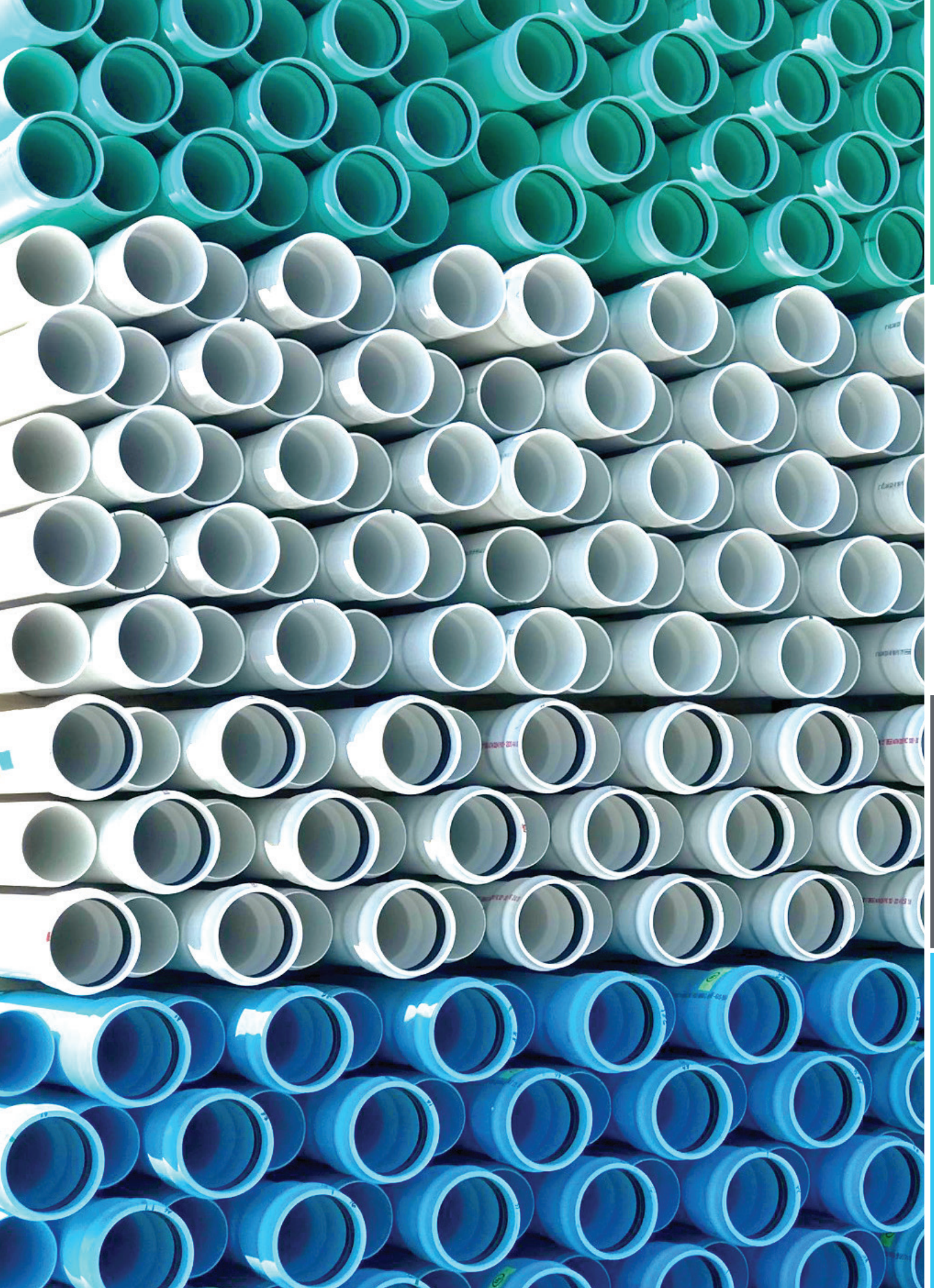
SECURESEAL™ PVC PIPE

PVC PRESSURE & SEWER PIPE

207 DURHAM DRIVE, ATHENS, AL 35611

PHONE: 256-233-3520

CONSOLIDATEDPIPE.COM



GRAVITY SEWER P.G. 8

SOLVENT WELD P.G. 14

IPS CLASS PIPE P.G. 4

C-900 P.G. 6



WHERE WE COME FROM

Founded in 1960, Consolidated Pipe & Supply has been under the same family ownership for almost 60 years. As our branch locations flourished throughout the Southeast, CPS formed Vulcan Plastics in 1981, centrally located in the distribution footprint. 37 years later our leadership at the plant comes from the same manager that rooted it. Vulcan is currently satisfying the PVC needs for 75 branch locations.

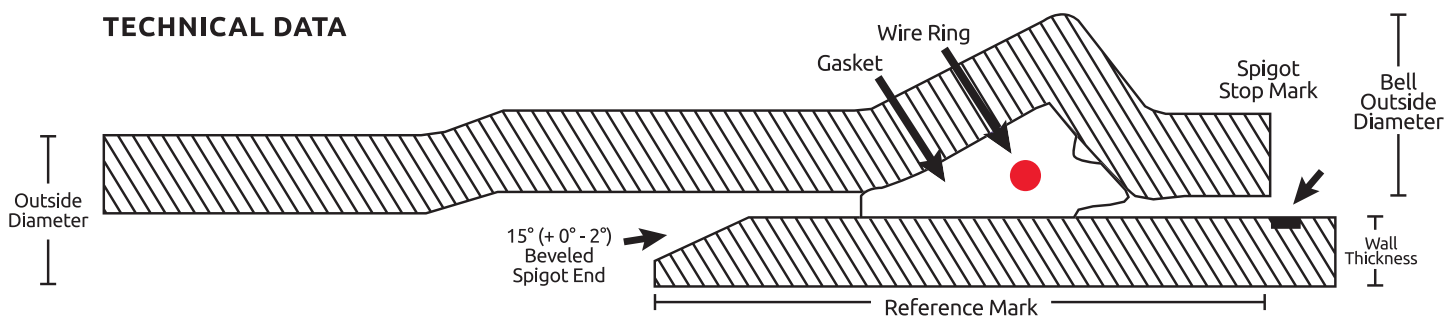
WHAT SETS US APART

We are able to plan production schedules around Consolidated’s loyal customer base. With Vulcan being under the CPS roof, we don’t have to ask the vendor — we are the vendor!

CERTIFICATION OF COMPLIANCE

	DESCRIPTION	ASTM D1785	ASTM D2241	ASTM D3034	ASTM F679	4-12 C-900	14-18 C-900
F-477	STANDARD SPECIFICATION FOR ELASTOMERIC SEALS (GASKETS) FOR JOINING PIPE		X	X	X	X	X
D-618	STANDARD METHOD OF CONDITIONING PLASTICS AND ELECTRICAL INSULATING MATERIALS FOR TESTING	X	X	X	X	X	X
D-638	TEST METHOD FOR TENSILE PROPERTIES OF PLASTIC					X	X
D-1598	TEST METHOD FOR TIME-TO-FAILURE OF PLASTIC PIPE UNDER CONSTANT INTERNAL PRESSURE	X	X			X	X
D-1599	TEST METHOD FOR SHORT TERM HYDRAULIC FAILURE PRESSURE OF PLASTIC PIPE AND FITTINGS	X	X			X	X
D-1784	STANDARD SPECIFICATION FOR RIGID PVC (POLY VINYL CHLORIDE) COMPOUNDS	X	X	X	X	X	X
D-1785	STANDARD SPECIFICATION FOR POLY (VINYL CHLORIDE) (PVC) PIPE SCH 40-80-120	X					
D-2122	STANDARD METHOD OF DETERMINING DIMENSIONS OF THERMOPLASTIC PIPE AND FITTINGS	X	X	X	X	X	X
D-2152	STANDARD TEST FOR THE DEGREE OF FUSION OF EXTRUDED PVC (POLY VINYL CHLORIDE) PIPE AND MOLDED FITTINGS BY ACETONE IMMERSION	X	X	X	X	X	X
D-2241	STANDARD SPECIFICATION FOR POLY VINYL CHLORIDE (PVC) PRESSURE RATED PIPE (SDR SERIES)		X				
D-2290	TEST FOR APPARENT TENSILE STRENGTH OF RING OR TUBULAR PLASTIC BY SPLIT DISK METHOD					X	X
D-2412	TEST METHOD FOR EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATES OR FLATTENING TEST	X	X	X	X	X	X
D-2444	TEST METHOD FOR IMPACT RESISTANCE OF THERMOPLASTIC PIPE AND FITTINGS BY MEANS OF A TUP OR IMPACT TEST (FREE FALLING WEIGHT)		X	X	X	X	X
D-2672	STANDARD SPECIFICATION FOR JOINTS FOR IPS PVC USING SOLVENT CEMENT	X	X				
D-2837	STANDARD METHOD OF OBTAINING HYDROSTATIC DESIGN BASIS FOR THERMOPLASTIC PIPE MATERIALS	X	X			X	X
D-3034	SPECIFICATION FOR TYPE PSM POLY (VINYL CHLORIDE) (PVC) SEWER PIPE			X			
D-3139	STANDARD SPECIFICATIONS FOR JOINTS FOR PLASTIC PRESSURE PIPES USING FLEXIBLE ELASTOMERIC SEALS	X	X			X	X
D-3212	SPECIFICATION FOR SEWER PLASTIC PIPE USING FLEXIBLE ELASTOMERIC SEALS			X	X		
F-679	STANDARD SPECIFICATION FOR TYPE PVC POLY (VINYL CHLORIDE) (PVC) SEWER PIPE AND FITTINGS				X		
	NSF STANDARD #14 - COMPLIANCE FOR NSF SEAL OR APPROVAL	X	X			X	X
	UNDERWRITERS LABORATORIES (UL 1285) DR 25-18-14					X	
	FACTORY MUTUAL (FM-1612) DR18(185)-DR14 (250)					X	
	NSF-61	X	X			X	X
	AWWA C-900 – 07 – 16” MANUFACTURING STANDARD					X	X

TECHNICAL DATA



PR160* (SDR 26) Conforming to ASTM D 2241 and D 3139 Δ=2°

CELL CLASSIFICATION 12454B

NORMAL SIZE INCHES	MINIMUM WALL THICKNESS (MINIMUM)	PIPE OUTSIDE DIAMETER (NOMINAL)	BELL OUTSIDE DIAMETER (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT/FOOT
2	.091	2.375	3.100	3.000	.434
2-1/2	.110	2.875	3.875	3.250	.640
3	.135	3.500	4.510	3.500	.947
4	.173	4.500	5.690	4.000	1.564
6	.255	6.625	8.075	5.250	3.412
8	.332	8.625	10.310	5.750	5.801
10	.413	10.750	12.890	6.250	9.023
12	.490	12.750	15.105	6.750	12.737

PR200* (SDR21) Conforming to ASTM D 2241 and D 3139 Δ=2°

CELL CLASSIFICATION 12454B

NORMAL SIZE INCHES	MINIMUM WALL THICKNESS (MINIMUM)	PIPE OUTSIDE DIAMETER (NOMINAL)	BELL OUTSIDE DIAMETER (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT/FOOT
2	.113	2.375	3.125	3.000	.533
2-1/2	.137	2.875	3.940	3.250	.789
3	.167	3.500	4.650	3.500	1.162
4	.214	4.500	5.805	4.000	1.920
6	.316	6.625	8.232	5.250	4.195
8	.410	8.625	10.505	5.750	7.124
10	.511	10.750	12.920	6.250	11.080
12	.606	12.750	15.350	6.750	15.637

PR250* (SDR 17) Conforming to ASTM D 2241 and D 3139 Δ=2°

CELL CLASSIFICATION 12454B

NORMAL SIZE INCHES	MINIMUM WALL THICKNESS (MINIMUM)	PIPE OUTSIDE DIAMETER (NOMINAL)	BELL OUTSIDE DIAMETER (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT FOOT
2	.140	2.375	3.370	3.000	.653
2-1/2	.169	2.875	4.157	3.250	.961
3	.206	3.500	4.0710	3.500	1.412
4	.265	4.500	5.955	4.000	2.347
6	.390	6.625	8.470	5.250	5.117
8	.508	8.625	10.780	5.750	8.685
10	.632	10.750	13.100	6.250	13.535
12	.750	12.750	15.575	6.750	19.110

P315* (SDR 13.5) Conforming to ASTM D 2241 and D 3139 Δ=2°

CELL CLASSIFICATION 12454B

NORMAL SIZE INCHES	MINIMUM WALL THICKNESS (MINIMUM)	PIPE OUTSIDE DIAMETER (NOMINAL)	BELL OUTSIDE DIAMETER (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT/FOOT
2	.176	2.375	3.450	3.000	.806
2-1/2	.213	2.875	4.269	3.250	1.161
3	.259	3.500	4.816	3.500	1.753
4	.333	4.500	6.075	4.000	2.899
6	.491	6.625	8.650	5.250	6.346

*Pressure Rating at 73.4°F

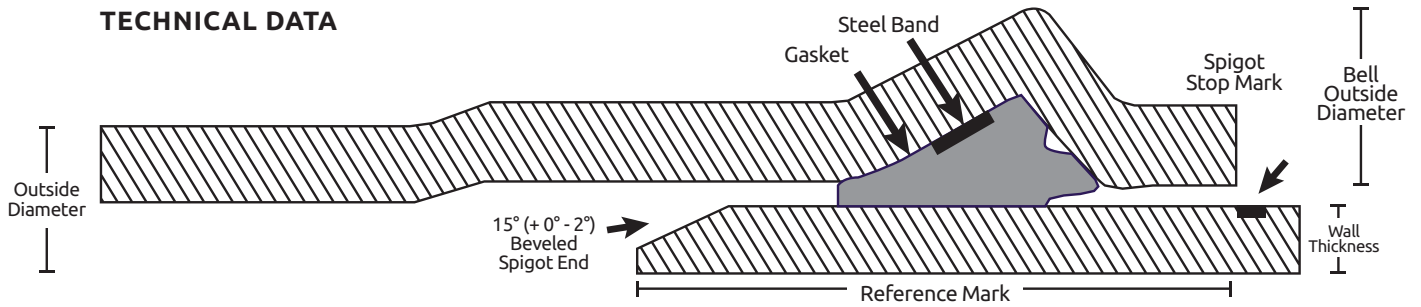
Vulcan Pressure Pipe is furnished in 20' lengths.
40' lengths are available sizes 2" through 6".

Gaskets are manufactured by Hultec and are NSF approved.
Δ Angular offset of joint

PACKAGING

PIPE SIZE	ITEM NUMBER	LENGTH	WEIGHT	NO. PCS. PER UNIT	FOOTAGE PER UNIT	WEIGHT PER UNIT	UNITS PER	FOOTAGE PER TRUCK	WEIGHT PER TRUCK EST
2" SDR26	207160	20'	.434	222	4440	1927	12	53280	23,124
2" SDR21	207141	20'	.533	222	4440	2367	12	53280	28,398
2" SDR17	218973	20'	.653	222	4440	2899	12	53280	34,792
2" SDR13.5	250071	20'	.806	222	4440	3579	12	53280	42,944
2 1/2" SDR26	207153	20'	.64	198	3960	2534	12	47520	30,413
2 1/2" SDR21	207155	20'	.789	198	3960	3124	12	47520	37,493
2 1/2" SDR17	218974	20'	.961	198	3960	3806	12	47520	45,667
2 1/2" SDR13.5	250072	20'	1.161	198	3960	4598	10	39600	45,976
3" SDR26	207161	20'	.947	100	2000	1894	12	24000	22,728
3" SDR21	207144	20'	1.162	100	2000	2324	12	24000	27,788
3" SDR17	218936	20'	1.412	100	2000	2824	12	24000	33,888
3" SDR13.5	250075	20'	1.753	100	2000	3506	12	24000	42,072
4" SDR26	207163	20'	1.564	84	1680	2628	12	20160	31,530
4" SDR21	207145	20'	1.92	84	1680	3226	12	20160	38,707
4" SDR17	218937	20'	2.347	84	1680	3943	12	20160	47,316
4" SDR13.5	250077	20'	2.899	42	840	2436	16	13440	38,963
6" SDR26	207164	20'	3.412	26/30	520/600	1774/2047	8/8	8960	30,572
6" SDR21	207147	20'	4.195	26/30	520/600	2181/2517	8/8	8960	37,587
6" SDR17	218834	20'	5.117	26/30	520/600	2661/3070	8/8	8960	45,848
6" SDR13.5	250078	20'	6.346	26	520	3300	16	8320	52,799
8" SDR26	207166	20'	5.801	12/18	240/360	1392/2088	8/8	4800	27,845
8" SDR21	207148	20'	7.124	12/18	240/360	1710/2565	8/8	4800	34,195
8" SDR17	219775	20'	8.685	12/18	240/360	2084/3127	8/8	4800	41,688
10" SDR26	207168	20'	9.023	16/20	320/400	2887/3609	4/4	2880	25,986
10" SDR21	207149	20'	11.08	16/20	320/400	3546/4432	4/4	2880	31,910
10" SDR17	250070	20'	13.535	8/10	160/200	2166/2702	8/8	2880	38,981
12" SDR26	207169	20'	12.737	4/12	80/240	1019/3057	4/8	2240	28,531
12" SDR21	250051	20'	15.637	4/12	80/240	1251/3753	4/8	2240	35,027
12" SDR17	250076	20'	19.11	4/8	80/160	1529/3058	4/12	2240	42,806

TECHNICAL DATA



**Dimensions and Pressure Classes for All Pipe Dimension Ratio (DR) PVC 1120 Pipe with Cast-Iron Pipe Equivalent ODs
 $\Delta=2^\circ$ CELL CLASSIFICATION 12454B**

SIZE - PSI	DR	MINIMUM WALL THICKNESS INCHES (MINIMUM)	PIPE OUTSIDE DIAMETER INCHES (NOMINAL)	BELL OUTSIDE DIAMETER INCHES (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT/ FOOT
4"-165	25	.192	4.800	6.080	5.000	1.851
6"-165	25	.276	6.900	8.435	5.900	3.836
8"-165	25	.362	9.050	10.875	6.900	6.646
10"-165	25	.444	11.100	13.300	8.000	10.046
12"-165	25	.528	13.200	15.775	8.875	14.267
4"-235	18	.267	4.800	6.160	5.000	2.528
6"-235	18	.383	6.900	8.600	5.900	5.246
8"-235	18	.503	9.050	11.100	6.900	9.062
10"-235	18	.617	11.100	13.500	8.000	13.714
12"-235	18	.733	13.200	16.010	8.875	19.220
4"-305	14	.343	4.800	6.290	5.000	3.271
6"-305	14	.493	6.900	8.800	5.900	6.634
8"-305	14	.646	9.050	11.395	6.900	11.454
10"-305	14	.793	11.100	13.915	8.000	17.380
12"-305	14	.943	13.200	16.425	8.875	24.645

*Pressure Rating at 73°F
 Pipe Manufactured in 20' Lengths

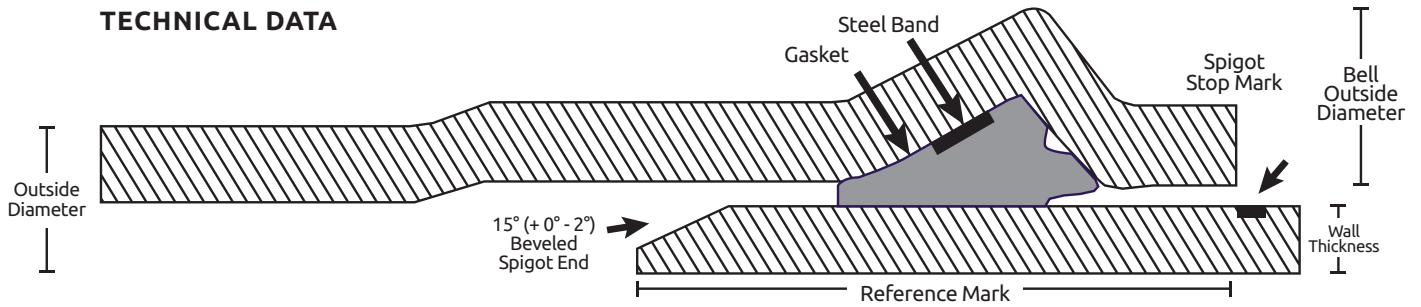
Pipe gaskets are manufactured by
 Hultec

UL 1285 Approved (DR25, 18, 14)
 FM 1612 Approved DR18(185) - DR14(250)
 DR 25 not approved

PACKAGING

PIPE SIZE	ITEM NUMBER	LENGTH	WEIGHT	NO. PCS. PER UNIT	FOOTAGE PER UNIT	WEIGHT PER UNIT	UNITS PER TRUCK	FOOTAGE PER TRUCK	WEIGHT PER TRUCK
4" C-900 25	290001	20	1.851	38	760	1407	20	15,200	28,135
4" C-900 18	290006	20	2.528	38	760	1921	20	15,200	38,426
4" C-900 14	290011	20	3.271	38	760	2486	18	13,670	44,747
6" C-900 25	290002	20	3.836	20	400	1534	20	8,000	30,688
6" C-900 18	290007	20	5.246	20	400	2098	20	8,000	41,968
6" C-900 14	290012	20	6.634	20	400	2654	16	6,400	42,458
8" C-900 25	290003	20	6.646	25/30	500/600	3233/3988	4/4	4,400	29,242
8" C-900 18	290008	20	9.062	10/20 12/24	200/400 240/480	1812/3625 2175/4350	2/4 2/4	4,400	39,873
8" C-900 14	290013	20	11.454	15/20	300/400	3436/4581	8/4	4,400	45,816
10" C-900 25	290004	20	10.046	16/20	320/400	3215/4018	4/4	2,880	28,932
10" C-900 18	290009	20	13.714	8/10	160/200	2194/2743	8/8	2,880	39,496
10" C-900 14	290014	20	17.380	8	160	2781	16	2,560	44,493
12" C-900 25	290005	20	14.267	4/8	80/160	1141/2283	4/12	2,240	31,958
12" C-900 18	290010	20	19.220	4/8	80/160	1538/3075	4/12	2,240	43,053
12" C-900 14	290015	20	24.645	8	160	3943	12	1,920	47,318

TECHNICAL DATA



**Dimensions and Pressure Classes for Dimension Ratio (DR) PVC 1120 Pipe with Cast-Iron Pipe Equivalent ODs
 $\Delta=1^\circ$ CELL CLASSIFICATION 12454B**

SIZE - PSI	DR	MINIMUM WALL THICKNESS INCHES (MINIMUM)	PIPE OUTSIDE DIAMETER INCHES (NOMINAL)	BELL OUTSIDE DIAMETER INCHES (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT/FOOT
14" - 165	25	.612	15.300	18.538	9.900	18.975
14" - 235	18	.850	15.300	19.000	9.900	25.927
16" - 100	41	.424	17.400	20.470	10.400	15.631
16" - 165	25	.696	17.400	21.020	10.400	25.083
16" - 200	21	.829	17.400	21.280	10.400	27.701
16" - 235	18	.967	17.400	21.560	10.400	34.283
18" - 165	25	.780	19.500	22.844	11.125	30.969
18" - 235	18	1.083	19.500	23.444	11.125	42.304

*Pressure rating at 73°

Vulcan C-900 14" – 18" NSF-61 Approved

Vulcan C-900 14" – 18" UL-1285 – Not approved

Vulcan 14"-18" FM-1612 - Not approved

Vulcan C-900 Pipe Manufactured in 20' lengths.

Pipe gaskets are manufactured by Hultec.

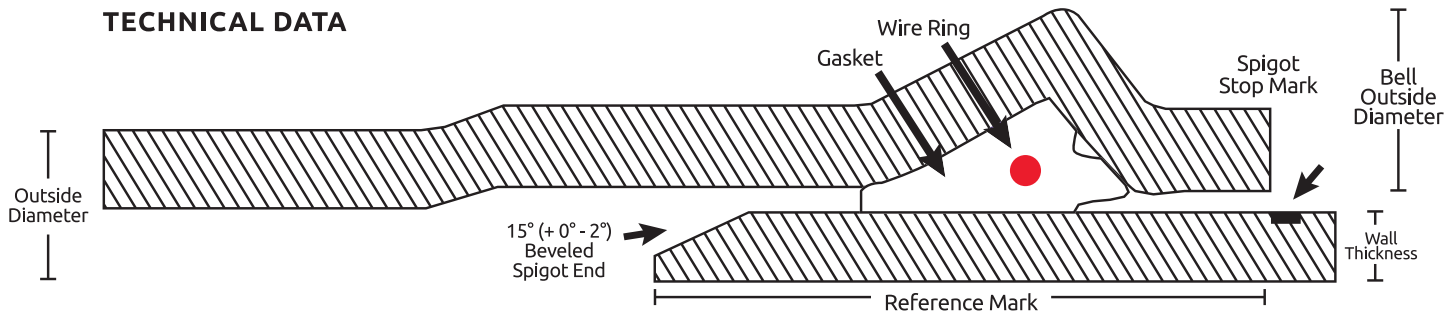
Δ Angular offset of joint – bell and spigot

PACKAGING

PIPE SIZE	ITEM NUMBER	LENGTH	WEIGHT	NO. PCS. PER UNIT	FOOTAGE PER UNIT	WEIGHT PER UNIT	UNITS PER TRUCK	FOOTAGE PER TRUCK	WEIGHT PER TRUCK
14" DR25	290024	20	18.975	3/6	60/120	1139/2277	4/8	1,200	22,722
14" DR18	290025	20	25.927	3/6	60/120	1556/3111	4/8	1,200	31,112
16" DR25	290026	20	25.083	3/6	60/120	1505/3010	4/8	1,200	30,100
16" DR21	230372	20	27.701	3/6	60/120	1662/3324	4/8	1,200	33,240
16" DR18	290027	20	34.083	3/6	60/120	2057/4114	4/8	1,200	41,140
18" DR25	290028	20	30.969	2/3	40/60	1239/1858	8/8	800	24,775
18" DR18	290029	20	42.304	2/3	40/60	1692/252538	8/8	800	33,843

GRAVITY SEWER PIPE (GREEN): 4" – 15"

TECHNICAL DATA



SDR 35 Conforming to ASTM D 3034 and D3212 PSI-46

$\Delta=2^{\circ}$ 4" – 12"

$\Delta=1^{\circ}$ 15"

CELL CLASSIFICATION 12454B

SIZE	MINIMUM WALL THICKNESS INCHES (MINIMUM)	PIPE OUTSIDE DIAMETER INCHES (NOMINAL)	BELL OUTSIDE DIAMETER INCHES (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT/FOOT 20' LENGTHS
4"	.120	4.215	5.175	2.500	N/A
6"	.180	6.275	7.400	3.250	N/A
8"	.240	8.400	9.825	4.250	N/A
10"	.300	10.500	12.175	4.750	N/A
12"	.360	12.500	14.425	5.500	N/A
15"	.437	15.300	17.914	6.000	N/A

SDR 26 Conforming to ASTM D 3034 and D 3212 PSI-115

$\Delta=2^{\circ}$ 4" – 12"

$\Delta=1^{\circ}$ 15"

CELL CLASSIFICATION 12454B

SIZE	MINIMUM WALL THICKNESS INCHES (MINIMUM)	PIPE OUTSIDE DIAMETER INCHES (NOMINAL)	BELL OUTSIDE DIAMETER INCHES (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT/FOOT 20' LENGTHS
4"	.162	4.215	5.250	2.500	N/A
6"	.241	6.275	7.495	3.250	N/A
8"	.323	8.400	9.935	4.000	N/A
10"	.404	10.500	12.375	4.750	N/A
12"	.481	12.500	14.965	5.500	N/A
15"	.588	15.300	18.275	6.000	N/A

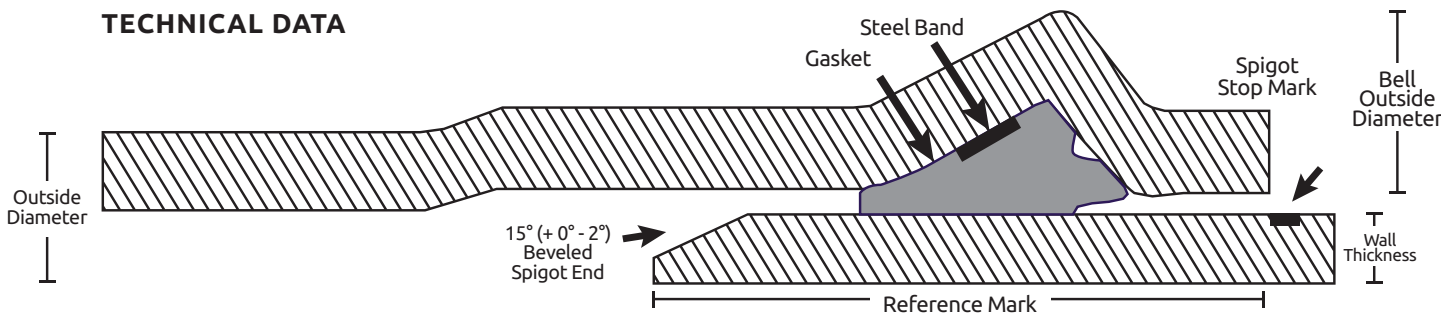
Vulcan Sewer Pipe is manufactured in 14' lengths.
Pipe gasket manufactured by Hultec.

Δ Angular offset of joint – bell and spigot

PACKAGING

PIPE SIZE	ITEM NUMBER	LENGTH	WEIGHT	NO. PCS. PER UNIT	FOOTAGE PER UNIT	WEIGHT PER UNIT	UNITS PER TRUCK	FOOTAGE PER TRUCK	WEIGHT PER TRUCK
4" SDR35	242032	14	1.022	84	1176	1202	18	21,168	21,634
4" SDR26	242043	14	1.365	84	1176	1605	18	21,168	28,894
6" SDR35	242033	14	2.292	30	420	963	24	10,080	23,103
6" SDR26	242044	14	3.037	30	420	1276	24	10,080	30,613
8" SDR35	242034	14	4.512	18/30	252/420	1137/1895	12	5,544	25,015
8" SDR26	242045	14	6.024	18/30	252/420	1518/2530	12	5,544	33,397
10" SDR35	242035	14	7.037	20/25	280/350	1970/2463	6/6	3,780	26,600
10" SDR26	242046	14	9.358	20/25	280/350	2620/3275	6/6	3,780	35,373
12" SDR35	242036	14	10.076	12/16	168/224	1693/2257	6/6	2,352	23,699
12" SDR26	242047	14	13.303	12/16	168/224	2235/2980	6/6	2,352	31,289
15" SDR35	242037	14	15.04	9	126	1895	12	1,512	22,740
15" SDR26	242048	14	20.031	9	126	2524	12	1,512	30,287

TECHNICAL DATA



Conforming to ASTM F-679 and D 3212 PSI-46 $\Delta=1^{\circ} 18'' - 21''$

SIZE	MINIMUM WALL THICKNESS INCHES (MINIMUM)	PIPE OUTSIDE DIAMETER INCHES (NOMINAL)	BELL OUTSIDE DIAMETER INCHES (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT/FOOT 20' LENGTHS
18"	.499	18.701	19.884	8.250	N/A
21"	.791	22.047	23.955	9.250	N/A

Conforming to ASTM-F679 and D 3212 PSI-115 $\Delta=1^{\circ} 18'' - 21''$

CELL CLASSIFICATION 12454B

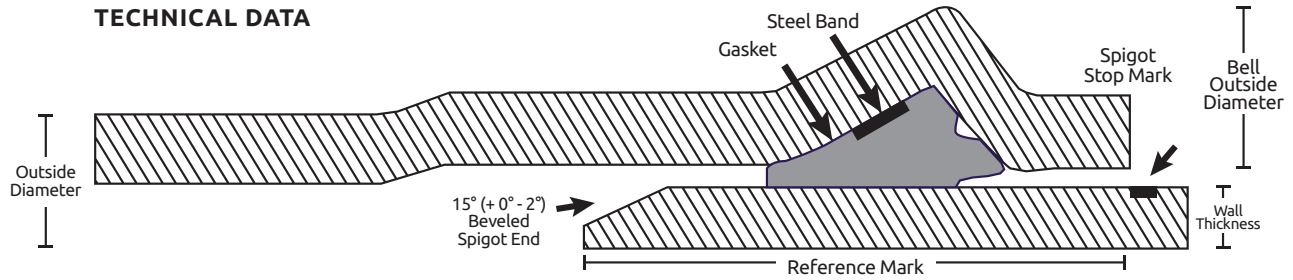
SIZE	MINIMUM WALL THICKNESS INCHES (MINIMUM)	PIPE OUTSIDE DIAMETER INCHES (NOMINAL)	BELL OUTSIDE DIAMETER INCHES (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT/FOOT 20' LENGTHS
18"	.671	18.701	20.158	8.250	N/A
21"	.791	22.047	23.955	9.250	N/A

PACKAGING

PIPE SIZE	ITEM NUMBER	LENGTH	WEIGHT	NO. PCS. PER UNIT	FOOTAGE PER UNIT	WEIGHT PER UNIT	UNITS PER TRUCK	FOOTAGE PER TRUCK	WEIGHT PER TRUCK
18" PS46	242038	14	19.459	2/3 4/6	28/42 56/84	545/817 1090/1635	3/3 6/6	1,050	20,432
18" PS115	240479	14	25.919	2/3 4/6	28/42 56/84	726/1086 1451/2177	3/3 6/6	1,050	27,215
21" PS46	242039	14	27.033	4	56	1514	12	672	18,166
21" PS115	240480	14	36.021	4	56	2017	12	672	18,166

Vulcan Sewer Pipe is manufactured in 14' lengths.
Pipe gasket manufactured by Hultec.

Δ Angular offset of joint – bell and spigot



DISTRIBUTION LINE

Dimensions and Pressure Classes for Dimension Ratio (DR) PVC 1120 Pipe with Cast-Iron Pipe Equivalent ODs $\Delta=2^\circ$
 CELL CLASSIFICATION 12454B

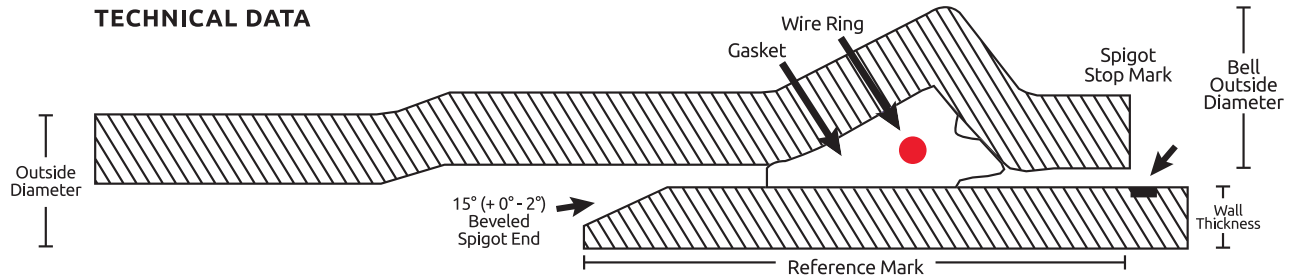
SIZE - PSI	DR	MINIMUM WALL THICKNESS INCHES (MINIMUM)	PIPE OUTSIDE DIAMETER INCHES (NOMINAL)	BELL OUTSIDE DIAMETER INCHES (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT/FOOT
4"-165	25	.192	4.800	6.080	5.000	1.851
6"-165	25	.276	6.900	8.435	5.900	3.836
8"-165	25	.362	9.050	10.875	6.900	6.646
10"-165	25	.444	11.100	13.300	8.000	10.046
12"-165	25	.528	13.200	15.775	8.875	14.267
4"-235	18	.267	4.800	6.160	5.000	2.528
6"-235	18	.383	6.900	8.600	5.900	5.246
8"-235	18	.503	9.050	11.100	6.900	9.062
10"-235	18	.617	11.100	13.500	8.000	13.714
12"-235	18	.733	13.200	16.010	8.875	19.220
4"-305	14	.343	4.800	6.290	5.000	3.271
6"-305	14	.493	6.900	8.800	5.900	6.634
8"-305	14	.646	9.050	11.395	6.900	11.454
10"-305	14	.793	11.100	13.915	8.000	17.380
12"-305	14	.943	13.200	16.425	8.875	24.645

TRANSMISSION LINE

Dimensions and Pressure Classes for Dimension Ratio (DR) PVC 1120 Pipe with Cast-Iron Pipe Equivalent ODs $\Delta=1^\circ$
 CELL CLASSIFICATION 12454B

SIZE - PSI	DR	MINIMUM WALL THICKNESS INCHES (MINIMUM)	PIPE OUTSIDE DIAMETER INCHES (NOMINAL)	BELL OUTSIDE DIAMETER INCHES (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT/FOOT
14" - 165	25	.612	15.300	18.538	9.900	18.975
14" - 235	18	.850	15.300	19.000	9.900	25.927
16" - 100	41	.424	17.400	20.470	10.400	15.631
16" - 165	25	.696	17.400	21.020	10.400	25.083
16" - 200	21	.829	17.400	21.280	10.400	27.701
16" - 235	18	.967	17.400	21.560	10.400	34.283
18" - 165	25	.780	19.500	22.844	11.125	30.969
18" - 235	18	1.083	19.500	23.444	11.125	42.304

* Pressure Rating At 73° F
 Pipe Gaskets Are Manufactured By Hultec
 Vulcan C-900 Sewer Force Main Pipe Manufactured In 20' Lengths



PR160* (SDR 26) Conforming to ASTM D2241 and D 3139 Δ=2°
 CELL CLASSIFICATION 12454B

SIZE	MINIMUM WALL THICKNESS (MINIMUM)	PIPE OUTSIDE DIAMETER INCHES (NOMINAL)	BELL OUTSIDE DIAMETER INCHES (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT FOOT
2"	.091	2.375	3.100	3.000	.434
2.5"	.110	2.875	3.875	3.250	.640
3"	.135	3.500	4.510	3.500	.947
4"	.173	4.500	5.690	4.000	1.564
6"	.255	6.625	8.075	5.250	3.412
8"	.332	8.625	10.310	5.750	5.801
10"	.413	10.750	12.890	6.250	9.023
12"	.490	12.750	15.105	6.750	12.737

PR 200* (SDR 21) Conforming to ASTM D 2241 and D 3139 Δ=2°
 CELL CLASSIFICATION 12454B

SIZE	MINIMUM WALL THICKNESS (MINIMUM)	PIPE OUTSIDE DIAMETER INCHES (NOMINAL)	BELL OUTSIDE DIAMETER INCHES (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT FOOT
2"	.113	2.375	3.125	3.000	.533
2.5"	.137	2.875	3.940	3.250	.789
3"	.167	3.500	4.650	3.500	1.162
4"	.214	4.500	5.805	4.000	1.920
6"	.316	6.625	8.232	5.250	4.195
8"	.410	8.625	10.505	5.750	7.124
10"	.511	10.750	12.920	6.250	11.080
12"	.606	12.750	15.350	6.750	15.637

PR250* (SDR 17) Conforming to ASTM D 2241 and D 3139 Δ=2°
 CELL CLASSIFICATION 12454B

SIZE	MINIMUM WALL THICKNESS (MINIMUM)	PIPE OUTSIDE DIAMETER INCHES (NOMINAL)	BELL OUTSIDE DIAMETER INCHES (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT FOOT
2"	.140	2.375	3.370	3.000	.653
2.5"	.169	2.875	4.157	3.250	.961
3"	.206	3.500	4.710	3.500	1.412
4"	.265	4.500	5.955	4.000	2.347
6"	.390	6.625	8.470	5.250	5.117
8"	.508	8.625	10.780	5.750	8.685
10"	.632	10.750	13.100	6.250	13.535
12"	.750	12.750	15.575	6.750	19.110

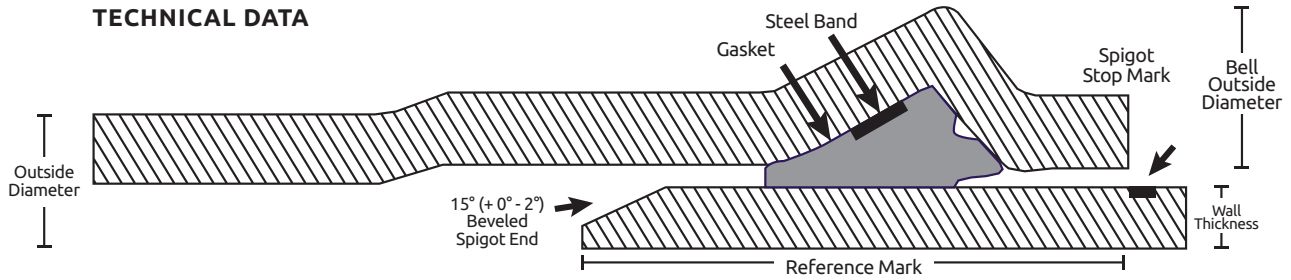
Pressure Rating at 73°F

Vulcan Pressure Pipe For Sewer Force Main is manufactured in 20' lengths.

Δ Angular offset of joint – bell and spigot

Pipe Gaskets are Manufactured by Hultec

TECHNICAL DATA



DISTRIBUTION LINE

Dimensions and Pressure Classes for Dimension Ratio (DR) PVC 1120 Pipe with Cast-Iron Pipe Equivalent ODs $\Delta=2^\circ$
 CELL CLASSIFICATION 12454B

SIZE - PSI	DR	MINIMUM WALL THICKNESS INCHES (MINIMUM)	PIPE OUTSIDE DIAMETER INCHES (NOMINAL)	BELL OUTSIDE DIAMETER INCHES (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT/FOOT
4"-165	25	.192	4.800	6.080	5.000	1.851
6"-165	25	.276	6.900	8.435	5.900	3.836
8"-165	25	.362	9.050	10.875	6.900	6.646
10"-165	25	.444	11.100	13.300	8.000	10.046
12"-165	25	.528	13.200	15.775	8.875	14.267
4"-235	18	.267	4.800	6.160	5.000	2.528
6"-235	18	.383	6.900	8.600	5.900	5.246
8"-235	18	.503	9.050	11.100	6.900	9.062
10"-235	18	.617	11.100	13.500	8.000	13.714
12"-235	18	.733	13.200	16.010	8.875	19.220
4"-305	14	.343	4.800	6.290	5.000	3.271
6"-305	14	.493	6.900	8.800	5.900	6.634
8"-305	14	.646	9.050	11.395	6.900	11.454
10"-305	14	.793	11.100	13.915	8.000	17.380
12"-305	14	.943	13.200	16.425	8.875	24.645

TRANSMISSION LINE

Dimensions and Pressure Classes for Dimension Ratio (DR) PVC 1120 Pipe with Cast-Iron Pipe Equivalent ODs $\Delta=1^\circ$
 CELL CLASSIFICATION 12454B

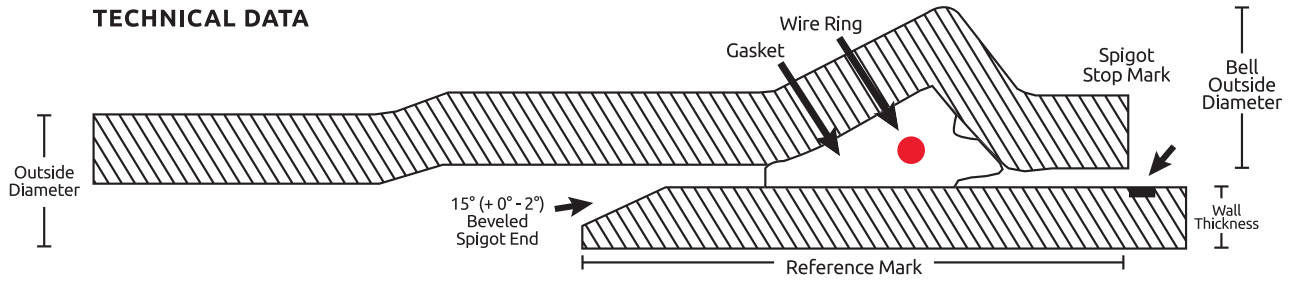
SIZE - PSI	DR	MINIMUM WALL THICKNESS INCHES (MINIMUM)	PIPE OUTSIDE DIAMETER INCHES (NOMINAL)	BELL OUTSIDE DIAMETER INCHES (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT/FOOT
14" - 165	25	.612	15.300	18.538	9.900	18.975
14" - 235	18	.850	15.300	19.000	9.900	25.927
16" - 100	41	.424	17.400	20.470	10.400	15.631
16" - 165	25	.696	17.400	21.020	10.400	25.083
16" - 200	21	.829	17.400	21.280	10.400	27.701
16" - 235	18	.967	17.400	21.560	10.400	34.283
18" - 165	25	.780	19.500	22.844	11.125	30.969
18" - 235	18	1.083	19.500	23.444	11.125	42.304

* Pressure Rating At 73°F

Pipe Gaskets Are Manufactured By Hultec

Vulcan C-900 Reclaimed Water Pipe Manufactured In 20' Lengths

TECHNICAL DATA



PR200* (SDR 21) Conforming to ASTM D 2241 and D 3139 $\Delta=2^\circ$
CELL CLASSIFICATION 12454B

SIZE	MINIMUM WALL THICKNESS (MINIMUM)	PIPE OUTSIDE DIAMETER INCHES (NOMINAL)	BELL OUTSIDE DIAMETER INCHES (APPROXIMATE)	REFERENCE MARK (AVG.)	APPROXIMATE WEIGHT FOOT
2"	.113	2.375	3.125	3.000	.533
2.5"	.137	2.875	3.940	3.250	.789
3"	.167	3.500	4.650	3.500	1.162
4"	.214	4.500	5.805	4.000	1.920
6"	.316	6.625	8.232	5.750	4.195
8"	.410	8.625	10.505	5.750	7.124
10"	.511	10.750	12.920	6.250	11.080
12"	.606	12.750	15.350	6.750	15.637

* Pressure Rating At 73° F

Pipe Gaskets Are Manufactured By Hultec

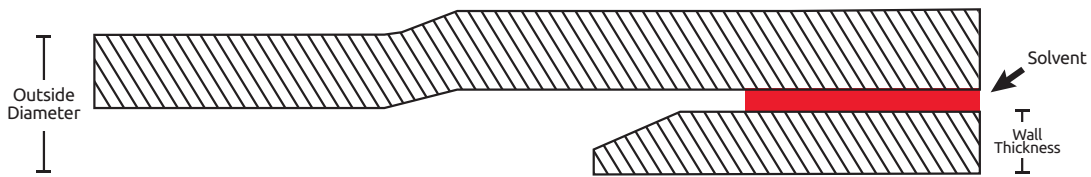
Vulcan Reclaimed Water Pipe Manufactured In 20' Lengths

Δ Angular offset of joint – belt and spigot

NON-POTABLE

NON NSF

PRESSURE PIPE: WHITE: 2"– 12"



SCH 40: ASTM D 1785 and ASTM D 2672

CELL CLASSIFICATION 12454B

SIZE - PSI	MINIMUM WALL THICKNESS INCHES	PIPE OUTSIDE DIAMETER INCHES	BELL OUTSIDE DIAMETER INCHES	OUTSIDE DIAMETER TOLERANCE ± INCHES	APPROXIMATE WEIGHT FOOT
2" - 280	.154	2.375	2.985	.006	.698
2 1/2" - 300	.203	2.875	3.285	.007	1.106
3" - 260	.216	3.500	3.940	.008	1.447
4" - 220	.237	4.500	5.000	.009	2.060
6" - 180	.280	6.625	7.185	.011	3.623
8" - 160	.322	8.625	9.289	.015	5.590
10" - 140	.365	10.750	11.576	.015	7.730
12" - 130	.406	12.750	13.675	.015	10.220

PACKAGING

PIPE SIZE	ITEM NUMBER	LENGTH	WEIGHT (FOOT)	NO. PCS. PER UNIT	FOOTAGE PER UNIT	WEIGHT PER UNIT	UNITS PER TRUCK	FOOTAGE PER TRUCK	WEIGHT PER TRUCK EST
2"	097010	20	.698	222	4440	3099	12	53,280	37,189
2 1/2"	097012	20	1.106	198	3960	4380	12	47,520	52,557
3"	097014	20	1.447	100	2000	2894	12	24,000	34,728
4"	097016	20	2.060	84	1680	3461	12	20,160	41,530
6"	097018	20	3.623	26/30	520/600	1884/2174	8/8	8,960	32,462
8"	097020	20	5.590	12/18	240/360	1342/2012	8/8	4,800	26,832
10"	206362	20	7.730	16/20	320/400	2474/3092	4/4	2,880	22,262
12"	094326	20	10.220	4/12	80/240	818/2453	4/8	2,240	22,893

SCH 80: ASTM D 1785 and ASTM D 2672

CELL CLASSIFICATION 12454B

SIZE - PSI	MINIMUM WALL THICKNESS INCHES	PIPE OUTSIDE DIAMETER INCHES	BELL OUTSIDE DIAMETER INCHES	OUTSIDE DIAMETER TOLERANCE ± INCHES	APPROXIMATE WEIGHT/FOOT
2" - 400	.218	2.375	2.815	.006	.959
2 1/2" - 420	.276	2.875	3.427	.007	1.463
3" - 370	.300	3.500	4.125	.008	1.958
4" - 320	.337	4.500	5.185	.009	2.861
6" - 280	.432	6.625	7.580	.011	5.456
8" - 250	.500	8.625	9.750	.015	8.285
10" - 230	.593	10.750	11.950	.015	12.283
12" - 239	.687	12.750	14.224	.015	16.900

PACKAGING

PIPE SIZE	ITEM NUMBER	LENGTH	WEIGHT (FOOT)	NO. PCS. PER UNIT	FOOTAGE PER UNIT	WEIGHT PER UNIT	UNITS PER TRUCK	FOOTAGE PER TRUCK	WEIGHT PER TRUCK EST
2"	320009	20	.959	111	2220	2130	18	39,960	38,360
2 1/2"	320010	20	1.463	99	1980	2897	16	31,680	46,352
3"	320011	20	1.985	50	1000	1985	20	20,000	39,700
4"	320012	20	2.861	48	960	2747	16	15,680	44,860
6"	320013	20	5.456	26	520	2837	16	8,320	45,393
8"	320014	20	8.285	20	400	3314	12	4,800	39,768
10"	320015	20	12.283	16	320	3931	8	2,560	31,444
12"	320016	20	16.900	8	160	2704	12	1,920	32,448

*Pressure Rating At 73° F Vulcan Pressure Pipe is manufactured in 20' lengths. Solvent Weld Bell Joint assembly per ASTM-D-2855.

PIPE MATERIAL PROPERTIES FOR PVC 1120

CELL CLASSIFICATION 12454-B

PROPERTIES	MINIMUM VALUE	UNIT	ASTM TEST
Specific Gravity	1.40 ± 0.03	–	D 792
Tensile Strength At 73.4°F	7,000	psi	D 638
Modulus Of Elasticity In Tension	400,000	psi	D 638
Compressive Strength At 73.4°F	9,600	psi	D 695
Flexural Strength At 73.4°F	12,000 - 14,000	psi	D 790
IZOD Impact At 73.4°F	0.65	ft. lbs/in. Notched	D 256
Hardness-Durometer D	80 ± 2	–	D 2240
Coefficient Of Thermal Expansion	2.8 x10-5	in/in/°F	D 696
Thermal Conductivity	3-4 x 10-4	cal/cm2/sec/°C	D 177
Heat Distortion - Temperature @ 264 psi	165	°F	D 648
Flammability	Self-extinguishing	–	D 635
Dielectric Strength	1,400	Volts/mil	D 149
Dielectric Constant - 60 cps @ 30°F	3.70	–	D 150
Power Factor - 60 cps @ 30°F	1,255	%	D 150
Specific Volume Resistivity @ 73.4°F	3-5 x 10	ohm/cm	D 257
Water Absorption	0.05	%	D 570

VULCAN PLASTIC PIPE ASSEMBLY

1. Visually inspect and clean and dry all belled ends and spigot end before joint assembly.

2. Lubricate the spigot end of the pipe from the tapered end to the reference mark. Not necessary to apply lube to gasket.

3. Align the spigot end of the pipe to the belled end for insertion. Angular offset beyond manufacture's allowable tolerance could result in the gasket being dislodged during assembly.

4. Place a wooden block on the belled end and using a pry bar push the spigot end into the belled end until reference mark on the spigot end is even with end of the bell. **DO NOT OVER INSERT SPIGOT INTO BELL.** Over-insertion could result in a joint failure.

5. If any unusual resistance occurs during the belling procedure, disassemble the joint and repeat steps 1-4. If resistance continues notify manufacturer prior to proceeding.

6. Field Cuts: All rough edges must be removed and the spigot end beveled with a file or a beveling tool. Failure to do so could result in damaged gasket.

7. Maximum bell deflection to spigot deflection after assembly 2"-12" IPS- CIS- PSM is 2° 14" – 21" IPS-CIS-PSM is 1°.

8. CIS C-900 should be installed in accordance with the AWWA #M23 PVC pipe design and installation, Uni Bell handbook of PVC pipe design and construction and, ASTM D-2774-08.

9. IPS should be installed in accordance with the Uni Bell handbook of PVC pipe design and construction, and ASTM D-2774-08.

10. PSM should be installed in accordance with the Uni Bell handbook of PVC pipe design and construction and ASTM D-2321.

11. The use of mechanical equipment (backhoe) is not recommended by the manufacturer for (bell/spigot) gasket joint assembly.

12. Solvent weld bell joints per ASTM-D-2855 used only approved cleaner-primer-cements.

13. The Installation Instruction #8-9-10 are general recommended instruction by Vulcan Plastics-Project Design and Installation per Engineer of Record.

14. Tapping PVC pipe per AWWA or Uni Bell recommendations: Electric drill holes saws or drill bits not recommended for tapping PVC pipe.



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