

PVC Well Casing

BASIC USES

Silver-Line PVC Well Casing is the standard bearer for the well drilling industry. Although used primarily to line wells for drinking water, PVC Well Casing pipe has also proven itself as a superior monitor pipe. Its advantages include:

- Non-Corrosion
- Resistance to Micro- and Macro- Biological Attack
- Lighter Weight
- Ease of Handling and Installation
- Competitive Price

Our PVC Well Casing is produced from Type I Grade 1 virgin PVC compound, which exceeds the materials requirements of ASTM Standard F 480, the governing standard specification for thermoplastic well casing pipe made in SDR and Schedules 40 and 80. This product is specially manufactured for use in water well construction and for ground water monitoring, and is tested and listed by NSF International.

The following information, adapted from ASTM F 480, outlines the storage, handling, and assembly procedures for SDR and SCH 40 thermoplastic well casing pipe:

STORAGE: PVC Well Casing pipe should not be stored in direct sunlight for long periods and should be stored in a manner to prevent sagging or bending of the pipe.

HANDLING: PVC Well Casing pipe should be kept clean and free of debris. Pipe ends should be cut square and any burrs must be removed before coupling. Cleaners and primers are recommended for use in accordance with the manufacturer's instructions, to soften and dissolve the pipe surfaces prior to cementing.

ASSEMBLY: Prior to assembly, ensure a full and tight fit between the pipe and belled end. Before the cement is applied, the pipe should insert half the length of the bell without unnecessary force. Use solvent cement, in accordance with the manufacturer's instructions, to join the pipe and belled end. After the joint is made, any excess cement should be wiped away from the new joint. Allow the cement to set properly and the joint to develop good handling strength before installation. Cure time will depend on many factors. Generally, however, short cure periods are satisfactory for high ambient temperatures, low humidity, and interference-type fittings. Longer cure periods are recommended for low ambient temperatures, high humidity, larger pipe sizes, and loose fitting joints.

**TOO MUCH CEMENT WILL DAMAGE THE PIPE
PVC PIPE IS NOT RECOMMENDED FOR AIR PRESSURE**

What Is IC-2 Rated Well Casing and How Does It Benefit You?

Although other manufacturers produce this product, few if any subject it to the rigorous testing required of pipe conforming to Impact Classification 2 ("IC-2") of ASTM F 480. For example, the IC-2 standard for 4-1/2" PVC SDR 17 Well Casing pipe requires that 9 of 10 samples, pre-conditioned to the temperature of 32°F, withstand the impact of a 30 pound tup dropped from 7.1 feet (213 ft LB). On 6-1/4" PVC SDR 21 and 6-1/4" SDR 27.6, IC-2 requires 9 of 10 samples, similarly conditioned, to withstand the impact of a 30 pound tup dropped from 8.9 feet (267 ft LB).

By testing and marking this product as IC-2, Silver-Line subjects this product to these performance tests by NSF International and certifies this product as an industry leader for quality and serviceability.

Nominal Pipe Size	Impact Classification Comparison			Minimum Pipe Stiffness Comparison (@5% Deflection)		PVC 1120 Compound Cell Class. Type I Grade 1	
	IC-0* (ft LB)	IC-1 (ft LB)	IC-2 (ft LB)	PVC DWV (D 2665)	Well Casing (F 480)		
4" SCH 40	Not specified	160-200	200-240	310 psi	310 psi	12454-B	
4-1/2" SDR 17	Not specified	170-210	211-250		452 psi	12454-B	
4-1/2" SDR 21	Not Specified	170-210	211-250		224 psi	12454-B	
4-1/2" SDR 26	Not Specified	170-210	211-250		112 psi	12454-B	
5" SDR 17	Not specified	180-220	220-260		452 psi	12454-B	
5" SCH 40	Not specified	180-220	220-260	150 psi	208 psi	12454-B	
5" SDR 21	Not specified	180-220	220-260		224 psi	12454-B	
5" SDR 26	Not specified	180-220	220-260		112 psi	12454-B	
6" SDR 17	Not specified	200-260	260-300		452 psi	12454-B	
6" SCH 40	Not specified	200-260	260-300		150 psi	150 psi	12454-B
6" SDR 21	Not specified	200-260	260-300		224 psi	12454-B	
6" SDR 26	Not specified	200-260	260-300		112 psi	12454-B	
6-1/4" SDR 17	Not specified	208-265	265-300		452 psi	12454-B	
6-1/8" (I.D.) SDR 21	Not specified	208-265	265-300		224 psi	12454-B	
6-1/4" (I.D.) SDR 27.6	Not specified	208-265	265-300		95 psi	12454-B	
8" SCH 40	Not specified	260-300	>300	100 psi	100 psi	12454-B	

* No impact testing required by ASTM F 480.

What Is Laying Length Pipe and How Does It Benefit You?

Most bell-end PVC pipe is manufactured to a standard overall length of 20 feet. That length is comprised of the length of the pipe and the length of the bell-joint. At Silver-Line most of our products that are frequently used in the well-water industry are manufactured to a laying length. With our well casing, even after the pipe is joined, you are still getting a true 20' of pipe. Our actual lengths are as follows:

Type of Pipe	Overall Length
2" SCH 40, SDR 21 & 26	20' 3 1/2
2-1/2" SCH 40, SDR 21 & 26	20' 4 1/2
3" SCH 40, SDR 21 & 26	20' 5 1/4
4" SCH 40, SDR 21 & 26	20' 6
4-1/2" SDR 17, 21 & 26	20' 6 1/4
5" SCH 40, SDR 17, 21 & 26	20' 7
6" SCH 40, SDR 17, 21, & 26	20' 7 1/4
6-1/4" SDR 17	20' 7 1/4
6-1/8" (I.D.) SDR 21	20' 7 1/4
6-1/4" (I.D.) SDR 27.6	20' 7 1/4
8" SCH 40	20' 7 1/4

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PVC WELL CASING PVC 1120 TYPE I GRADE1

BELLED END 20 FT. LENGTHS

Nominal Size	Item Number	Bar Code 7 17141	Outside Diameter	Min. Wall Thickness	Wt/100'	Bell Depth (inch)	Ft/ Pallet	SDR
4-1/2"	34.442	34442 8	4.950	0.291	275	6 1/4	860	17
4-1/2"	34.452	34452 7	4.950	0.236	229	6 1/4	860	21
4-1/2"	32.452	32452 9	4.950	0.190	187	6 1/4	860	26
5"	34.512	34512 8	5.563	0.327	360	7 1/4	460	17
6"	34.642	34642 2	6.625	0.390	496	7 1/4	520	17
6-1/4"	34.742	34742 9	6.900	0.406	545	7 1/4	660	17
6-1/8" I.D.	34.612	34612 5	6.900	0.329	445	7 1/4	660	21
6-1/4" I.D.	34.622	34622 4	6.900	0.250	345	7 1/4	660	27.6

Note: All Sizes Are Laying Length and IC-2 Rated

NSF-wc

PVC SCH 40 WELL CASING PVC 1120 TYPE I GRADE1 BELLED END 20 FT. LENGTHS

Nominal Size	Item Number	Bar Code 7 17141	Outside Diameter	Min. Wall Thickness	Wt/100'	Bell Depth (inch)	Ft/Pallet
2"	35.202	35202 7	2.375	0.154	70	3 1/2	2,800
3"	35.302	35302 4	3.500	0.216	144	5 1/4	1,500
4"	35.402	35402 1	4.500	0.237	205	6	1,140
5"	35.502	35502 8	5.563	0.258	288	7	460
6"	35.602	35602 5	6.625	0.280	364	7 1/4	520
8"	35.802	35802 9	8.625	0.322	546	7 1/4	280
10"	35.910	35910 1	10.750	0.365	753	8	220
12"	35.912	35912 5	12.750	0.406	1000	9 1/2	80

Note: 2" – 8" Are Laying Length and 4"-8" Are IC-2 Rated

NSF-wc & NSF-pw

PVC SDR 21 WELL CASING PVC 1120 TYPE I GRADE1 BELLED END 20 FT. LENGTHS

Nominal Size	Item Number	Bar Code 7 17141	Outside Diameter	Min. Wall Thickness	Wt/100'	Bell Depth (inch)	Ft/Pallet
2"	34.202	34202 8	2.375	0.113	53	3 1/2	2,800
3"	34.302	34302 5	3.500	0.167	114	5 1/4	1,500
4"	34.402	34402 2	4.500	0.214	189	6	1,140
5"	34.502	34502 9	5.563	0.265	295	7	460
6"	34.602	34602 6	6.625	0.316	390	7 1/4	520

Note: 2"- 6" Are Laying Length and 5" and 6" Are IC-2 Rated

NSF-wc & NSF-pw

PVC SDR 26 WELL CASING PVC 1120 TYPE I GRADE1 BELLED END 20 FT. LENGTHS

Nominal Size	Item Number	Bar Code 7 17141	Outside Diameter	Minimum Wall Thickness	Wt/100'	Bell Depth (inch)	Ft/Pallet
4"	32.402	32402 4	4.500	0.173	156	6	1,140
5"	32.502	32502 1	5.563	0.214	240	7	460
6"	32.602	32602 8	6.625	0.255	320	7 1/4	520

Note: 4"- 6" Are Laying Length and 5" Is IC-2 Rated

NSF-wc & NSF-pw

Material complies with ANSI / NSF Standard 61 and ASTM F 480

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