

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 (D2665)	Well Casing (F 480)	
4” SCH 40	Not Specified*	160-200	200-240	310 psi	310 psi	12454
4-1/2” SDR 17		170-210	211-250		452 psi	12454
4-1/2” SDR 21		170-210	211-250		224 psi	12454
4-1/2” SDR 26		170-210	211-250		112 psi	12454
4-1/2” SCH 40		170-210	211-250		268 psi	12454
5” SDR 17		180-220	220-260		452 psi	12454
5” SDR 21 / SCH 40		180-220	220-260		224 psi	12454
5” SDR 26		180-220	220-260		112 psi	12454
6” SDR 17		200-260	260-300		452 psi	12454
6” SCH 40		200-260	260-300	150 psi	150 psi	12454
6” SDR 21		200-260	260-300		224 psi	12454
6” SDR 26		200-260	260-300		112 psi	12454
6-1/4” SDR 17		208-265	265-300		452 psi	12454
6-1/8” (I.D.) SDR 21		208-265	265-300		224 psi	12454
6-1/4” (I.D.) SDR 27.6		208-265	265-300		95 psi	12454
8” SCH 40 / SDR 26		260-300	>300	100 psi	100 psi	12454

*No impact tested 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:

PIPE LENGTH	
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" SCH 40, SDR 17, 21 & 26	*20' 6 1/4"
5" SCH 40, SDR 17, 21 & 26	*20' 7"
6" SCH 40, SDR 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"

*Please note that all 4" IPS and larger must be chamfered and requires a bell depth mark