

CertainTeed

Slotted PVC Well Casing

Certa-Lok™ & Solvent-Weld

HIGH PERFORMANCE



Superior flow performance

Corrosion resistant

Large selection of slot configurations

Choice of joining systems

CertainTeed 

Quality made certain. Satisfaction guaranteed.

The CertainTeed Advantage

CertainTeed – the name that contractors have come to associate with the industry's broadest line of high-quality PVC well products – is also the industry leader in high performance slotted well casing. Using new manufacturing technology, slotted casing can now be produced with open areas and efficiencies that rival those of other screens, often at a fraction of the cost. Combine PVC screens with PVC well casing for the ultimate corrosion-resistant, low-maintenance water well!

A Size and Joining System for Every Application

Slotted casing can be produced in sizes from 2" all the way up to the largest commercially available PVC well casing product (17.4" O.D.), in a variety of wall thicknesses and strengths to suit virtually all applications:

- Domestic
- Irrigation
- Municipal
- Aquifer Storage and Recovery
- Environmental

CertainTeed also offers a choice of joining systems: traditional solvent-weld or the contractor-proven, all-weather Certa-Lok™ mechanical joint.

Slot Width Selection

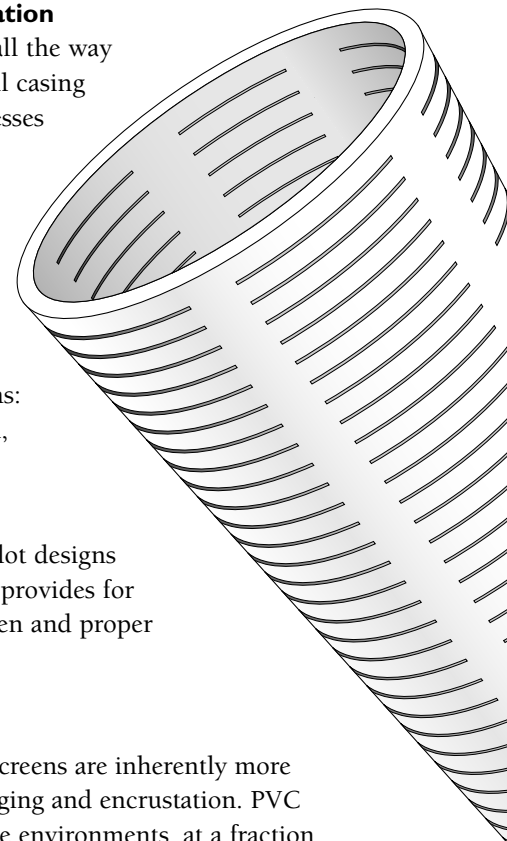
A wide selection of precision-machined factory slot designs (.010"-.125") with closely spaced inlet openings provides for uniform development over the length of the screen and proper stabilization of the gravel pack.

Long Life

Well rehabilitation costs are minimized, as PVC screens are inherently more resistant than conventional steel products to clogging and encrustation. PVC also outperforms stainless steel in highly corrosive environments, at a fraction of the cost. All screens are manufactured from PVC casing that is listed by NSF International as safe for use with potable water.

Single Source for All Your Well Product Needs

No more unloading, local-machining, and repackaging required. With CertainTeed, the industry's best slotted casing is shipped ready to use – no field fabrication required – along with your other PVC well product needs, including solid casing, drop pipe for submersible pumps, and a variety of fittings.



Underdrain Pipe

Slotted PVC casing is also ideal for use as underdrain pipe. Applications include, but are not limited to:

- Leachate collection systems for solid waste landfills
- Drainage and dewatering applications
- Mining heap leach projects

PVC underdrain pipe is supplied with precision-machined slots, which provide greater intake capacity and continuous, clog-resistant drainage of fluids, as compared to standard round-hole perforated pipe. Slotted underdrain reduces entrance velocity into the pipe, thereby reducing the possibility that solids will be carried into the system. Slot rows can generally be positioned symmetrically or asymmetrically around the pipe circumference, depending upon the application. Outside diameters are generally the same for PVC and non-corrugated polyethylene (HDPE) pipe. However, the HDPE pipe must be extruded with a thicker wall (and therefore a reduced cross-sectional flow area) to obtain a comparable stiffness rating.



Slotted PVC and Underdrain Pipe Specifications

This chart illustrates standard manufacturing capabilities only. Not all products shown are routinely stocked – call for availability. Slot configurations not included on this chart are covered under CertainTeed's non-standard product warranty.

NOM. SIZE	NOM. O.D.	NO. OF ROWS	CLASS	MIN. WALL THICKNESS	JOINT AVAILABILITY	O.D. OPEN AREA, SQ. INCHES PER FOOT OF SCREEN (.25" SLOT SPACING)															
						SLOT WIDTH INCHES															
						0.010	0.013	0.016	0.020	0.025	0.032	0.040	0.050	0.085	0.100	0.125					
2"	2.375	4	SCH40	0.154	SW	2.4	3.1	3.7	4.6	5.6	7.0										
3"	3.500	4	SCH40	0.216	SW	2.6	3.4	4.1	5.0	6.2	7.7										
4"	4.500	4	SDR26	0.173	SW																
			SDR21	0.214	SW	3.0	3.9	4.8	8.0	9.7	12.2	14.8	18.2	27.2							
			SCH40	0.237	SW,CLIB																
4 1/2"	4.950	4	SDR26	0.190	SW,CLIB																
			SCH40	0.248	SW,CLIB	3.0*	4.5*	5.4*	9.2	11.3	14.1	17.1	21.0	31.5							
			SDR17	0.291	SW,CLIB																
5"	5.563	4	SDR26	0.214	SW																
			SDR21**	0.265	SW,CLIB		4.5*	5.4*	10.0	12.3	15.4	18.7	23.0	34.4							
			SDR17	0.327	SW,CLIB																
			SCH80	0.375	CLIB																
6"	6.625	6	SDR26	0.255	SW																
			SCH40	0.280	SW,CLIB																
			SDR21	0.316	SW,CLIB			8.2*	12.6	15.4	19.2	23.4	28.7	43.0							
			SDR17	0.390	SW,CLIB																
6 1/4"	6.900	6	DR27.6	0.250	SW																
6 1/8"			SDR21	0.329	SW,CLIB				12.6*	15.4	19.2	23.4	28.7	43.0							
6.9" O.D.			SDR17	0.406	SW,CLIB																
8"	8.625	6	SDR26	0.332	SW																
			SDR21	0.410	SW																
			SDR17	0.508	CLIB				14.2*	20.3	25.4	30.8	37.9	56.7	63.8	74.6					
10"	10.750	6	SDR26	0.413	SW																
			SDR21	0.511	SW					22.5*	28.1	34.1	41.9	62.7	70.7	82.5					
			SDR17	0.632	CL																
12"	12.750	8	SDR26	0.490	SW																
			SDR21	0.606	SW					30.0*	37.4	45.5	55.9	83.7	94.2	110.1					
			SDR17	0.750	CL																
14"	14.000	8	SCH40	0.437	SW																
			SDR17	0.823	CL					32.9*	41.1	49.9	61.3	91.8	103.4	120.7					
16"	16.000	10	SCH40	0.500	SW																
		10	SDR26	0.616	SW,CL					36.3	45.3	55.1	67.6	101.2	114.0	133.1					
		8	SDR21	0.762	CL					31.0	38.7	47.0	57.7	86.4	97.3	113.6					
		8	SDR17	0.941	CL					43.5	52.8	64.9	97.2	109.4	127.8						
17.4" O.D.	17.400	8	SDR17	1.024	CL							52.8	64.9	97.2	109.4	127.8					

KEY: SW = Solvent Weld Belled End, CL = Certa-Lok (w/coupling), CLIB = Certa-Lok Integral Bell
 * = Not available in SDR17 or SCH80
 ** = Equivalent to SCH40

- Notes:
1. As a general rule, Flow Rating (GPM/ft) in a gravel-packed well = O.D. Open Area (in²/ft)* (.50 blockage factor)* (.31 conversion factor) at an entrance velocity of 0.1 fps.
 2. Open area percentage varies from 2% to over 20%, depending upon casing size and slot width.
 3. CertainTeed can supply a detailed Engineering Specification for any of the products shown, or for special made-to-order products.
 4. Slots can often be lengthened on thick-wall products to provide additional I.D. penetration; revised specifications showing increased open area are available upon request.
 5. Standard slot spacing = .25". Smaller and wider spacing is available - wider spacing is recommended for slot widths of .100" and above.
 6. Specifications subject to change. Standard manufacturing tolerances apply.
 7. All dimensions are in inches.

Our Slots Pay Off Three Ways!

CertainTeed solid and slotted casing is available with a joining system to suit all of your needs:



Traditional Solvent - Weld Joint
– Now with a deeper bell for a stronger, more durable bond.
Available in sizes 2" - 16".



Certa-Lok™ – Check out the Best Joint in Town. No more “glue and screw” attachments. Mechanical joint achieves full strength instantly in all weather conditions. Fast assembly and disassembly. Available in sizes 10" - 17.4" O.D.



Certa-Lok™ Integral Bell Well Casing – All the advantages of the contractor-proven Cert-Lok joining system, now with a conventional belled-end joint for even faster assembly. The economical choice for all of your small-to-medium diameter well casing requirements. Available in sizes 4", 4 ½", 5", 6", 6.9" O.D., 8".



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INTERIOR: INSULATION • GYPSUM • CEILINGS

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