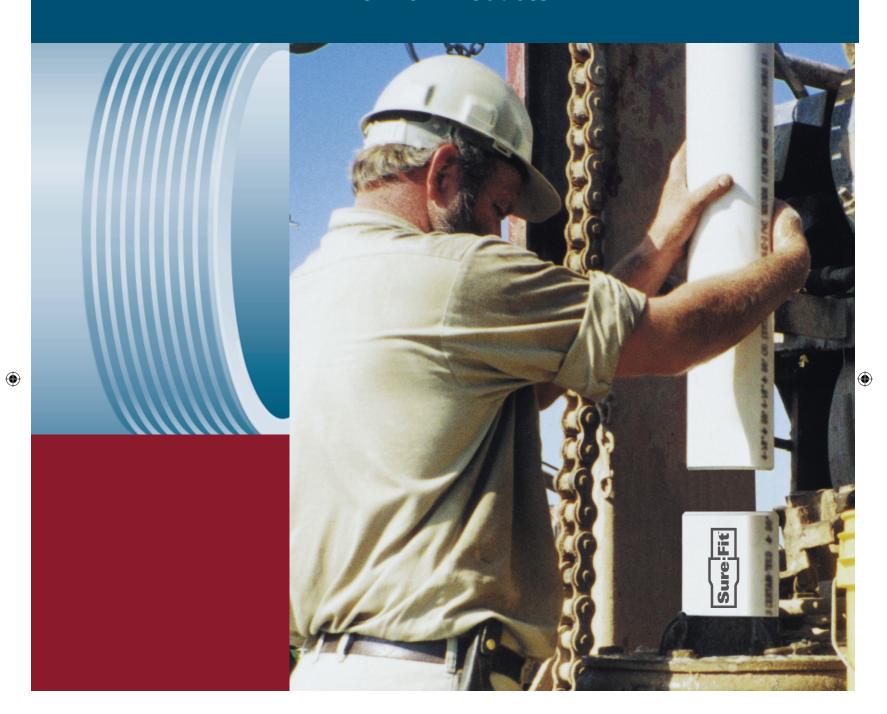
CertainTeed

PVC Well Casing & Drop Pipe

PVC Well Products





PVC well casing and drop pipe have gained broad acceptance since their introduction almost 40 years ago. Today, due to its outstanding physical and mechanical properties, PVC is the predominant add vanta age sand preferred material used for water wells. PVC compounds used in the production of CertainTeed well products meet the requirements of ASTM D1784, cell classification 12454.

THE SPECIAL ADVANTAGES OF PVC

- Long Life: PVC is completely immune to electrolytic and galvanic corrosion, so it won't rust or rot like metal pipe can.
- High Chemical Resistance: PVC's excellent chemical resistance makes it immune to virtually all chemicals normally found in wells, including chlorine-based disinfectants and the highly corrosive acids often used for well rehabilitation.
- Testing performed by NSF International has shown that PVC will have no detrimental effects on the taste or color of potable water. Many customers prefer to drink potable water pumped through PVC rather than water pumped through metal pipe.
- Because PVC is a non-conductor, the chances of lightning damage are minimized.
- Lightweight and easy to handle.
- Quick and easy to install.
- Approved for use by most State Regulatory Agencies.

2

ASTM F480



CertainTeed is the industry leader in PVC well casing, offering a broad range of sizes and classes to suit virtually all applications, from small diameter residential to large diameter irrigation wells. PVC well casing produced at our modern manufacturing facilities is NSF14 listed, which is your assurance that these products have been independently tested by a nationally recognized authority to the dimensional and quality standards of ASTM F480.

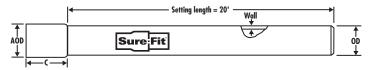
CertainTeed PVC well casing is produced with a deeper bell for a stronger, more durable bond. Bell lengths on 4" through 6" casing exceed minimum ASTM F480 requirements by 7% - 30%. Solvent weld belled end joints are designed to seal securely, creating a continuous watertight system.

CertainTeed also manufactures the industry's most complete line of fittings for use with solvent weld casing (see page 5). All fittings are individually fabricated to exacting quality standards at our modern production facilities.

| Nomine | al | | Min. Wall | Inside | Diameter | Rell Dim | nensions | Weight | RHCP | Part |
|---------------------------------|---------|----------|----------------|--------|----------------|----------------|--------------|-----------------|-----------|--------|
| Size | O.D. | Class | Thickness | Min. | Max. | AOD | C | lbs./ft. | PSI | Number |
| 2" | 2.375 | SCH 40 | 0.154 | 2.025 | 2.067 | 2.71 | 4.50 | .705 | 306 | 650031 |
| 3" | 3.500 | SCH 40 | 0.216 | 3.012 | 3.068 | 3.97 | 4.00 | 1.453 | 262 | 650833 |
| 4" | 4.500 | SDR 32.5 | 0.138 | 4.106 | 4.223 | 4.81 | 6.50 | 1.243 | 29 | 659621 |
| | | SDR 26 | 0.173 | 4.033 | 4.154 | 4.88 | 6.50 | 1.539 | 59 | 652134 |
| | | SDR 21 | 0.214 | 4.016 | 4.072 | 4.97 | 6.50 | 1.886 | 115 | 654138 |
| | | SCH 40 | 0.237 | 3.968 | 4.026 | 5.02 | 6.50 | 2.078 | 158 | 650130 |
| 41/2" | 4.950 | SDR 26 | 0.190 | 4.502 | 4.570 | 5.37 | 6.50 | 1.864 | 59 | 651830 |
| | | SCH 40 | 0.248 | 4.379 | 4.454 | 5.49 | 6.50 | 2.403 | 135 | 651137 |
| | | SDR 17 | 0.291 | 4.288 | 4.368 | 5.58 | 6.50 | 2.794 | 224 | 656538 |
| 5" | 5.563 | SDR 26 | 0.214 | 5.009 | 5.135 | 6.04 | 7.00 | 2.359 | 59 | 652233 |
| | | SDR 21* | 0.265 | 4.941 | 5.033 | 6.15 | 7.00 | 2.911 | 115 | 654244 |
| | | SDR 17 | 0.327 | 4.810 | 4.909 | 6.28 | 7.00 | 3.528 | 224 | 656637 |
| 6" | 6.625 | SDR 32.5 | 0.204 | 6.093 | 6.217 | 7.08 | 7.00 | 2.710 | 29 | 660030 |
| | | SDR 26 | 0.255 | 5.984 | 6.115 | 7.19 | 7.00 | 3.347 | 59 | 652332 |
| | | SCH 40 | 0.280 | 5.961 | 6.065 | 7.24 | 7.00 | 3.675 | 79 | 650239 |
| | | SDR 21 | 0.316 | 5.885 | 5.993 | 7.32 | 7.00 | 4.117 | 115 | 654336 |
| 41 / 11 | | SDR 17 | 0.390 | 5.728 | 5.845 | 7.47 | 7.00 | 5.006 | 224 | 656736 |
| 6 ¹ / ₄ " | 6.900 | DR 27.6 | 0.250 | 6.270 | 6.400 | 7.45 | 7.00 | 3.433 | 49 | 659539 |
| | | SDR 21** | 0.329 | 6.128 | 6.242 | 7.62 | 7.00 | 4.460 | 115 | 654930 |
| 0.11 | 0.705 | SDR 17 | 0.406 | 5.964 | 6.088 | 7.78 | 7.00 | 5.453 | 224 | 656835 |
| 8" | 8.625 | SDR 26 | 0.332 | 7.771 | 7.961 | 9.35 | 7.00 | 5.663 | 59 | 652431 |
| 10" | 10.750 | SDR 21 | 0.410 | 7.666 | 7.805 | 9.52 | 7.00 | 6.915 | 115 | 654435 |
| 10" | 10.750 | SDR 26 | 0.413 0.511 | 9.724 | 9.924 9.728 | 11.65 11.86 | 7.50 7.50 | 8.782 10.805 | 59 115 | 652530 |
| 10" | 10.750 | SDR 21 | | 9.567 | | | | | | 654534 |
| 12" | 12.750 | SDR 26 | 0.490 | 11.561 | 11.770 | 13.82 | 8.00 | 12.382 | 59 | 652639 |
| 1 411 | 1.4.000 | SDR 21 | 0.606 | 11.345 | 11.538 | 14.06 | 8.00 | 15.050 | 115 | 654633 |
| 14" | 14.000 | SCH 40 | 0.437 | 12.924 | 13.126 | 14.96 | 8.00 | 12.217 | 31 | 650635 |
| 16" | 16.000 | SCH 40 | 0.500 | 14.790 | 15.000 | 17.11 | 8.00 | 16.099 | 31 | 650734 |
| | | SDR 26 | 0.616 | 14.544 | 14.768 | 17.35 | 8.00 | 19.328 | 59 | 652837 |

^{*} Equivalent to SCH 40

Commonly referred to as $6^{1}/8$ "



Notes

- Dimensions are in inches.
- All dimensions and weights are subject to normal manufacturing tolerances.
- RHCP = Resistance to Hydraulic Collapse Pressure at room temperature (predicted failure point - no safety factor included). See brochure on the Selection of PVC Well Casing Based on Hydraulic Collapse Considerations, Literature Code 40-37-02, for additional details.

SDR 17 = Class 250

- Plain-End casing available on a special order basis.
- PVC Casing is normally referred to by SDR or SCH number. Class equivalents are: SDR 32.5 = Class 125 SDR 21 = Class 200
- SDR 26 = Class 160• $4\frac{1}{2}$ " and smaller = IC-0

5" and larger = IC-1

PVC Well Casing 40-37-09G_r2.indd 3 1/29/13 11:02 AM

PACKAGING AND WEIGHTS

| Size | Class | Feet Per Fast Pak | Fast Paks Per Truckload | Feet Per Truckload | Lbs. Per Truckload |
|---------------------------------|--|---------------------------------|----------------------------------|--------------------------------------|---|
| 2" | SCH 40 | 2100 | 28 | 58800 | 41454 |
| 3" | SCH 40 | 920 | 28 | 25760 | 37429 |
| 4" | SDR 32.5 | 580 | 28 | 16240 | 20186 |
| | SDR 26 | 580 | 28 | 16240 | 24993 |
| | SDR 21 | 580 | 28 | 16240 | 30628 |
| | SCH 40 | 580 | 28 | 16240 | 33746 |
| 4 ¹ / ₂ " | SDR 26 | 520 | 24 | 12480 | 23263 |
| | SCH 40 | 520 | 24 | 12480 | 29989 |
| | SDR 17 | 520 | 24 | 12480 | 34869 |
| 5" | SDR 26 | 460 | 24 | 11040 | 26043 |
| | SDR 21* | 460 | 24 | 11040 | 32137 |
| | SDR 17 | 460 | 24 | 11040 | 38949 |
| 6" | SDR 32.5 SDR 26 SCH 40 SDR 21 SDR 17 | 400 400 400 400 400 | 20 20 20 20 20 20 | 8000 8000 8000 8000 8000 | 21680 26776 29400 32936 40048 |
| 6.9" O.D. | DR 27.6 | 340 | 20 | 6800 | 23344 |
| | SDR 21 | 340 | 20 | 6800 | 30328 |
| | SDR 17 | 340 | 20 | 6800 | 37080 |
| 8" | SDR 26 | 280 | 16 | 4480 | 25370 |
| | SDR 21 | 280 | 16 | 4480 | 30979 |
| 10" | SDR 26 | 80 | 36 | 2880 | 25292 |
| | SDR 21 | 80 | 36 | 2880 | 31118 |
| 12" | SDR 26 | 80 | 24 | 1920 | 23773 |
| | SDR 21 | 80 | 24 | 1920 | 28896 |
| 14" | SCH 40 | 120 | 12 | 1440 | 17592 |
| 16" | SCH 40 | 120 | 12 | 1440 | 23182 |
| | SDR 26 | 120 | 12 | 1440 | 27832 |

(

Note: Packaging may vary slightly between production locations; consult shipping plant for details.



^{*} Equivalent to SCH 40

SOLVENT WELD PVC WELL FITTINGS

CAPS



| Size | Part Number | O.D. | Length |
|---------------------------------|-------------|-------|--------|
| 4" (1) | 810374 | 5.00 | 3.13 |
| 4 ¹ / ₂ " | 810435 | 5.40 | 4.00 |
| 5" (1) | 810381 | 6.13 | 4.25 |
| 6" (1) | 810398 | 7.30 | 4.25 |
| 61/4" (2) | 810459 | 7.60 | 4.25 |
| 8" | 810404 | 9.30 | 4.50 |
| 10" (3) | 810411 | 11.50 | 5.00 |
| 12" | 810428 | 13.60 | 5.00 |
| 14" (3) | 810503 | 15.00 | 5.00 |
| 16" | 810473 | 16.80 | 5.40 |
| 16" Heavy Wall (3) | 810527 | 17.00 | 5.50 |

(1) Molded Cap – base is raised instead of flat (2) Fits all 6.9" O.D. casing (3) Color = Blue

COUPLINGS



| Size | Part Number | O.D. | Length | Coupling Stock Class |
|--|-------------|-------|--------|-------------------------|
| 4" | 690808 | 4.93 | 10.00 | SCH 40 |
| 41/2" | 690884 | 5.45 | 11.00 | SCH 40 |
| 41/2" | 690952 | 5.54 | 11.00 | SDR 17 |
| 5" | 690815 | 6.10 | 13.00 | SDR 21 |
| 6" | 690822 | 7.26 | 13.00 | SDR 26 |
| 6 ¹ / ₄ " (1) | 690907 | 7.45 | 14.00 | DR 27.6 |
| 6 ¹ / ₄ " (1)(2) | 690938 | 7.60 | 11.00 | N/A |
| 8" | 690839 | 9.45 | 13.00 | SDR 26 |
| 10" | 690846 | 11.58 | 13.00 | SDR 26 |
| 12" | 690853 | 13.74 | 13.00 | SDR 26 |
| 14" | 690877 | 14.88 | 14.00 | SCH 40 |
| 16" | 690860 | 17.05 | 16.00 | SCH 40 |
| | | | | |

(1) Fits all 6.9" O.D. casing

(2) Machined, heavy wall

REDUCERS



| Part Number | O.D. | Length | Coupling Stock Class |
|-------------|--|---|---|
| 690983 | 5.45 | 11.00 | $4^{1}/_{2}$ " SCH 40 |
| 690969 | 5.54 | 11.00 | 4 ¹ / ₂ " SDR 17 |
| 690914 | 6.10 | 11.50 | 4" SDR 21 |
| 690921 | 6.10 | 11.50 | 5" SDR 17 |
| 810466 | 7.45 | 14.00 | 6.9" DR 27.6 |
| 690945 | 7.60 | 11.00 | N/A |
| | 690983 690969 690914 690921 810466 | 690983 5.45 690969 5.54 690914 6.10 690921 6.10 810466 7.45 | 690983 5.45 11.00 690969 5.54 11.00 690914 6.10 11.50 690921 6.10 11.50 810466 7.45 14.00 |

(1) Fits all 6.9" O.D. casing Reducers are all Bell x Bell unless otherwise noted. (2) Machined, heavy wall

PUMP ADAPTERS



| Size | Part Number | O.D. | Length | Coupling Stock Class |
|------|-------------|------|--------|-------------------------|
| 4" | 691010 | 5.20 | 13.50 | SCH 80 (thickened) |
| 6" | 691027 | 7.50 | 15.00 | SCH 80 (thickened) |

Solvent Weld Bell x NPT Thread

Note: All dimensions are in inches and are subject to normal manufacturing tolerances.

KWIK-SET® THREADED DROP PIPE

FOR SUBMERSIBLE PUMPS

U.S. PAT NO. 6,666,480

SCH80 (SCH120 Bell) ASTM D1785 20' lengths

| Size O.D. | | Min. Wall Bell Thickness O.D | | Approx. Weight Max. Setting (lbs./ft.) Depth (ft.) | | Max. Pressure Rating (psi) | Max. HP | | | Part Number |
|-----------|-------|------------------------------------|-------|--|-----|----------------------------------|------------|------|----|----------------|
| 1" | 1.315 | 0.179 | 1.590 | 0.407 | 450 | 320 | 1.5 | 2400 | 40 | 870385 |
| 1 1/4" | 1.660 | 0.191 | 1.975 | 0.561 | 400 | 260 | 2.0 | 2040 | 36 | 870392 |
| 2" | 2.375 | 0.218 | 2.735 | 0.936 | 300 | 200 | 7.5 | 1060 | 40 | 870378 |

SCH120 ASTM D1785 20' lengths

| Size | O.D. | Min. Wall Thickness | Bell O.D. | Weight (lbs./ft.) | Approx. Max. Setting Depth (ft.) | Max. Pressure Rating (psi) | Max. HP | Ft. Per Fast Pak | Fast Paks Per Truckload | Part Number |
|-------|-------|---------------------------|--------------|----------------------|--|----------------------------------|------------|---------------------|-------------------------------|----------------|
| 1" | 1.315 | 0.200 | 1.590 | 0.445 | 500 | 360 | 1.5 | 2400 | 40 | 870446 |
| 11/4" | 1.660 | 0.215 | 1.975 | 0.619 | 450 | 300 | 2.0 | 2040 | 36 | 870453 |
| 2" | 2.375 | 0.250 | 2.735 | 1.054 | 375 | 240 | 7.5 | 1060 | 40 | 870460 |



6

PVC THREADED DROP PIPE

SCH80 ASTM D1785 20' lengths

| | | | | | | | | | <u>Part Number</u> | | | | |
|---------------------------------|-------|------------------------|-------------------|-------------------------------------|-----------------------------|---------|---------------------|----------------------------|--------------------|------------------------------------|--|--|--|
| Nom. Size | O.D. | Min. Wall Thickness | Weight lbs/ft. | Approx. Max. Setting Depth, ft.* | Max Pressure Rating, psi | Max. HP | Ft. Per Fast Pak | Fast Paks Per Truckload | Pipe Only | Pipe w/Stainless Steel Coupling | | | |
| 1" | 1.315 | 0.179 | 0.407 | 550 | 320 | 1.5 | 2400 | 40 | 870286 | 871009 | | | |
| 1 ¹ / ₄ " | 1.660 | 0.191 | 0.561 | 450 | 260 | 2.0 | 2040 | 36 | 870293 | 871016 | | | |
| 1 ¹ / ₂ " | 1.900 | 0.200 | 0.678 | 400 | 240 | 5.0 | 1800 | 40 | 870309 | 871030 | | | |
| 2" | 2.375 | 0.128 | 0.936 | 300 | 200 | 7.5 | 1060 | 40 | 870316 | 871023 | | | |

SCH120 ASTM D1785 20' lengths

| | | | | | | | | | <u>Part Number</u> | | | |
|---------------------------------|-------|------------------------|-------------------|-------------------------------------|-----------------------------|---------|---------------------|----------------------------|--------------------|------------------------------------|--|--|
| Nom. Size | O.D. | Min. Wall Thickness | Weight lbs/ft. | Approx. Max. Setting Depth, ft.* | Max Pressure Rating, psi | Max. HP | Ft. Per Fast Pak | Fast Paks Per Truckload | Pipe Only | Pipe w/Stainless Steel Coupling | | |
| 1" | 1.315 | 0.200 | 0.445 | 600 | 360 | 1.5 | 2400 | 40 | 870477 | 668135 | | |
| 1 ¹ / ₄ " | 1.660 | 0.215 | 0.619 | 500 | 300 | 2.0 | 2040 | 36 | 870484 | 668142 | | |
| 11/2" | 1.900 | 0.225 | 0.750 | 450 | 270 | 5.0 | 1800 | 40 | 870491 | 668166 | | |
| 2" | 2.375 | 0.250 | 1.054 | 375 | 240 | 7.5 | 1060 | 40 | 870507 | 668159 | | |

^{*} Using metal couplings

Notes for Threaded Drop Pipe and KWIK-SET®

- Dimensions are in inches.
- All dimensions and weights are subject to normal manufacturing tolerances.
- Pressure ratings are based on ASTM D1785 for threaded drop pipe at 73.4°F. Couplings or other fittings used must equal or exceed this value for the
 drop pipe system to have the rating shown.
- Approximate setting depths shown are based on a set of typical weights and operating parameters (including 60 psi discharge pressure at the well head). Water temperature, type of coupling used, pumping level of water, flow rate, tank pressure, etc., may affect this value. Analysis of project-specific operating conditions should make use of the friction loss chart.
- All application guidelines are based on the use of a check valve at or within 20' of the pump, and at higher elevations, as required.
- 1" size packaged into 100' bundles within each Pak.

Installation Instructions for Threaded Drop Pipe and KWIK-SET®

- Carefully align threads to prevent cross-threading
- Apply a Teflon®-based plastic compatible thread sealant do not use Teflon tape
- Engage joint to hand-tight, and then, using a tool that will not damage the pipe, tighten approximately one turn

FRICTIONAL LOSS FOR ALL THREADED PIPE, FT. H20 PER 100 FEET

| Flow Rate | | SCH | 180 | | | SCH | 1120 | |
|--|--------|---------------------------------|----------------|-------|--------|---------------------------------|---------------------------------|-------|
| GPM | 1" | 1 ¹ / ₄ " | $1^{1}/_{2}$ " | 2" | 1" | 1 ¹ / ₄ " | 1 ¹ / ₂ " | 2" |
| 5 | 2.401 | 0.588 | 0.270 | 0.077 | 2.987 | 0.708 | 0.318 | 0.091 |
| 7 | 4.477 | 1.096 | 0.503 | 0.144 | 5.570 | 1.320 | 0.593 | 0.170 |
| 10 | 8.667 | 2.122 | 0.973 | 0.279 | 10.782 | 2.556 | 1.148 | 0.329 |
| 15 | 18.365 | 4.496 | 2.062 | 0.591 | 22.847 | 5.416 | 2.432 | 0.696 |
| 20 | 31.288 | 7.659 | 3.513 | 1.008 | 38.923 | 9.227 | 4.143 | 1.186 |
| 25 | 47.299 | 11.579 | 5.311 | 1.523 | | 13.949 | 6.264 | 1.793 |
| 30 | | 16.229 | 7.445 | 2.135 | | 19.552 | 8.780 | 2.514 |
| 35 | | 21.592 | 9.905 | 2.841 | | 26.012 | 11.681 | 3.344 |
| 40 | | | 12.683 | 3.637 | | | 14.958 | 4.283 |
| 45 | | | | 4.524 | | | 18.604 | 5.327 |
| 50 | | | | 5.499 | | | | 6.474 |
| 55 | | | | 6.561 | | | | 7.724 |
| 60 | | | | 7.708 | | | | 9.075 |
| Max. Recommended Flow Rate (GPM) | 11 | 20 | 27 | 46 | 10 | 19 | 26 | 43 |

⁵ fps flow velocity

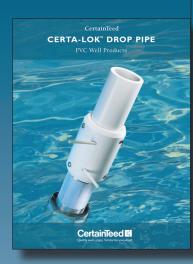


ALSO AVAILABLE FROM CERTAINTEED

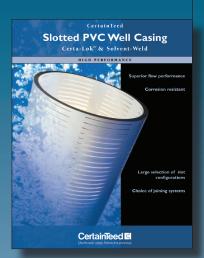
■ Certa-Lok[™] Well Casing — mechanical joint achieves full strength instantly in all weather conditions without solvent cements



■ Certa-Lok[™] Drop Pipe for submersible pumps — sizes up to 8 "



■ Slotted Solvent Weld and Certa-Lok[™] Well Casing





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