



A CSW Industrials Company

PRODUCT DATA SHEET

CLEARDRAIN PVC™ SCH40 PVC Pipe ASTM D1785



Description

ClearDrain PVC is a revolutionary Schedule 40 PVC piping system designed specifically for HVAC condensate drainage. This cutting-edge technology combats the persistent challenges posed by white slime and biofilm, known culprits behind blockages and water leaks in drainage systems.

Unlike conventional piping systems, ClearDrain PVC boasts an innovative, long-lasting solution that effectively minimizes the attachment and proliferation of harmful elements like bacteria, algae, and white slime. Its passive-action technology fundamentally alters the pipe's surface structure, preventing the attachment and growth of these microorganisms. ClearDrain PVC ensures the uninterrupted flow of condensate, preventing clogging and significantly lowering the risk of water leaks within the HVAC system.

Applications

Condensate piping system for HVAC and refrigeration.

Recommended for

- Residential
- Commercial
- Industrial

Feature & Benefits

- Passive-action clog prevention technology containing 3% natural mineral Zinc
- Standard PVC pipe installation practices
- Long-lasting with no migration or loss of effectiveness
- Contains no chemicals, biocides or coatings
- Conforms to ASTM D1785 (Pipe) & D2466 (Fitting) standards
- UV resistant

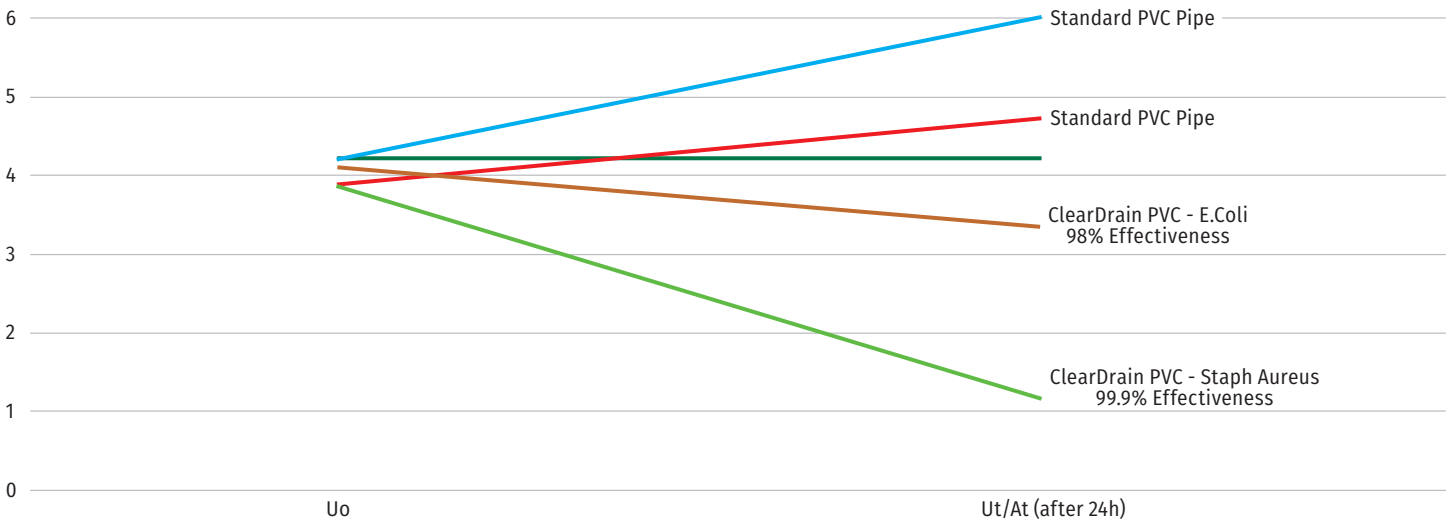
Packaging

| Code | Description | Qty per Case | Lbs per Case | Cubic Feet |
|-------|-----------------------------|--------------|--------------|------------|
| 86599 | 3/4" SCH40 PVC PE Pipe 10ft | 10* | 23.89 | 0.976 |
| 86600 | 3/4" SCH40 PVC PE Pipe 7ft | 10 | 16.7 | 0.685 |
| 86601 | 3/4" SCH40 PVC Coupling | 25 | 0.96 | 0.070 |
| 86602 | 3/4" SCH40 PVC 90° Elbow | 25 | 1.56 | 0.123 |
| 86603 | 3/4" SCH40 PVC 45° Elbow | 25 | 1.16 | 0.070 |
| 86604 | 3/4" SCH40 PVC Tee | 25 | 1.91 | 0.123 |
| 86605 | 3/4" SCH40 PVC Male Adapter | 25 | 1.11 | 0.070 |
| 86607 | 3/4" SCH40 PVC Running Trap | 25 | 6.58 | 0.306 |
| 86614 | 3/4" SCH40 PVC P-Trap | 25 | 6.08 | 0.359 |

* a whole pallet must be purchased, quantity 60 cases.

Technology

The Independent ISO-22196:2011 Standard measures antibacterial activity on plastics and other non-porous surfaces and verifies the antimicrobial property of the ClearDrain PVC surface, identifying up to Log3 or 99.9% efficacy of the technology or higher. This means the number of germs on the surface is up to 99.9% less on a surface made with the passive-action technology in ClearDrain PVC compared to a normal PVC pipe surface. The technology has broad-spectrum performance but has also proven effective against viruses, molds and fungi, biofilm, and fouling.



ISO 22196:2011 24hr Testing - Standard Schedule 40 PVC Pipe Vs ClearDrain PVC Pipe

Here the E.Coli increases (grows) on the standard pipe by almost 50%

Here the Staph A increases (grows) on the standard pipe

Here the E.Coli stays almost the same on the ClearDrain PVC in just 24hrs. Very little growth.

Here the Staph A decreases by 99.9% (growth) on the ClearDrain PVC in just 24hrs

Installation Guidelines

- The piping shall maintain a horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 units horizontal (1% slope).
- Condensate shall not decrease in size from the drain pan.
- ¾" piping should only be used for up to 20 tons of refrigeration capacity.
- In case of failure, a water-level detection device should be used with this system.
- The system must be installed and configured to allow cleaning, maintenance, and clearing of blockages without the drain line being cut.
- Installation should conform to the International Plumbing Code (IPC), state/country building regulations, and ASTM Standards.

WARNING: Never test with, transport, or store compressed air or gas in PVC pipes or fittings. Doing so can result in explosive failures and cause injury or severe death.

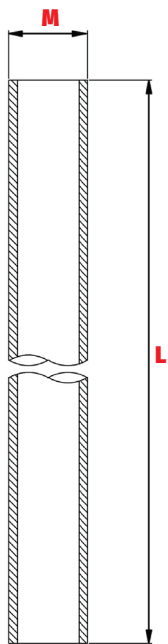
Pipe and Fitting Preparation for Installation

1. Cut the pipe square using a pipe-cutting tool. All joints are sealed at the base of the fitting. A non-square joint may fail.
2. Remove all pipe burrs from the inside and outside of the pipe.
3. Clean and dry the pipe and fittings, ensuring that dirt, grease, and moisture are removed with a clean and dry cloth.
4. Test the pipe and fittings by completing a dry fit test. Pipe and fittings that are too tight or loose should not be used.
5. Apply PVC Primer (Jim™ PR-1L) to the fitting socket.
6. Apply PVC Primer (Jim™ PR-1L) to the pipe surface.
7. If necessary, apply two coats of primer to the fitting socket and pipe surface. More applications of primer may be required in cold weather conditions.
8. Apply PVC Solvent Cement (Gene™ 404L) to the pipe surface and the socket fitting, ensuring excess solvent cement does not accumulate inside the socket.
9. Join the pipe and fit together quickly while the solvent cement is still wet. Where possible, apply a quarter turn to the pipe or fitting to distribute the solvent cement evenly.
10. Hold the pipe and fitting in place until the solvent cement has set, and ensure the pipe does not back out of the fitting.
11. Remove any excess solvent cement.
12. Align all piping system components correctly without stress or strain. Do not bend or pull the pipe into position after it has been welded with solvent.

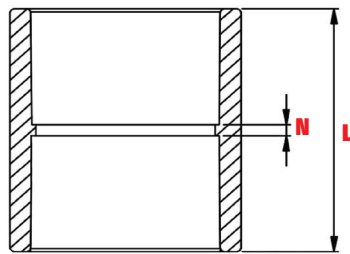
Maintenance Guidelines

To ensure the best possible performance of the ClearDrain PVC System:

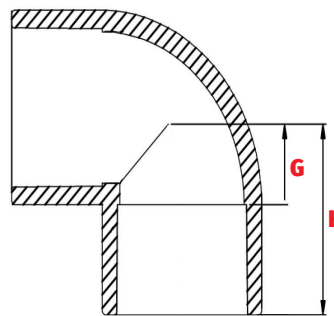
1. Maintenance of ClearDrain PVC is recommended every six months—ideally, once in spring/summer and once in autumn/winter.
2. To remove dust and debris from the internal surface of the pipe, the ClearDrain PVC System must be flushed through with warm, clean water.
3. Caution must be taken to avoid flushing dirt and debris from the HVAC system's drain pan into the pipe network.
4. A clean internal pipe surface ensures optimal performance of the ClearDrain PVC System.



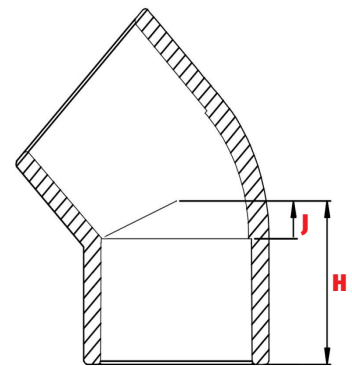
86599 and 86600
L: 120 (86599), 84 (86600)
M: 1.05



86601
L: 1.535
N: 0.094



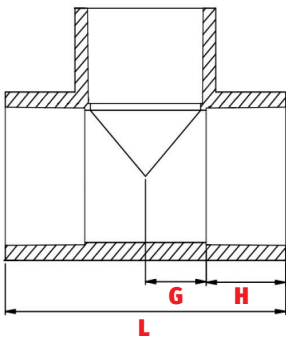
86602
H: 1.378
G: 0.657



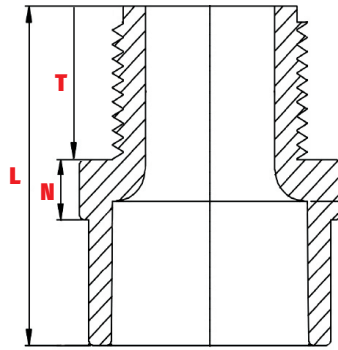
86603
H: 1.134
J: 0.417

CLEAR DRAIN PVC™

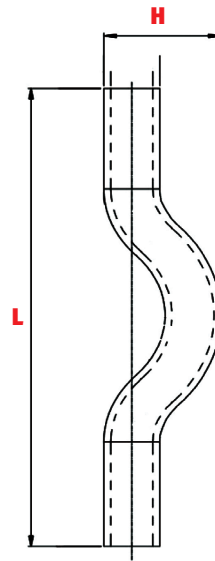
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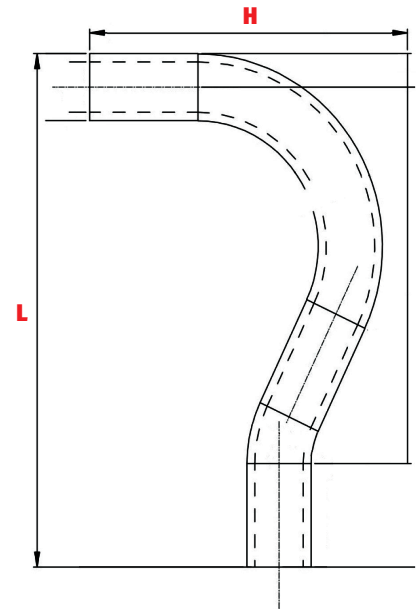
86604
L: 2.567
H: 1.283
G: 0.562



86605
L: 1.673
N: 0.295
T: 0.768



86607
L: 11.023
H: 3.228



86614
L: 8.00
H: 4.25

WARNING This product can expose you to chemicals including Titanium Dioxide, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

Limited Warranty



For more information on our product warranty, visit rectorseal.com.

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