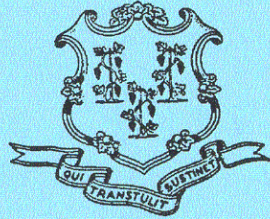


**STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH**



This packet contains information from the

**LEAD ENVIRONMENTAL MANAGEMENT UNIT
and
ENVIRONMENTAL ENGINEERING PROGRAM**

Package Contents:

Lead Environmental Management Unit:

- **Circular Letter #2000-12 (Registry of Authorized Encapsulant Products and Eight Revised Encapsulant Product Fact Sheets)**
- **Circular Letter #2000-13 (Regional State Lead Contacts)**

Environmental Engineering:

- **Circular Letter #2000-14 (Septic Tank Compliance with ASTM C1227 and New Pipe/Filter Approval with listing of precast concrete tank manufacturers)**
- **Letter to IPEX, Inc. Re: (4" Schedule 40 Ecolotube PVC Pipe, ASTM F 1760)**
- **Letter to Zabel Environmental Technologies Re: (Approval of New 8" Diameter A100 and A300 Series Septic Tank Outlet Filters with Appendix "B")**
- **Letter to Infiltrator Systems, Inc. Re: (Infiltrator ISI 3050 Chamber Utilized in a Gallery Configuration)**
- **Notice Re: (Septic Tank Cleanout Risers)**



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

MEMO

DEH Circular Letter #2000-14

Date: July 7, 2000

To: Directors of Health, Staff Sanitarians, Installers, Professional Engineers

From: Frank A. Schaub, Supervising Sanitary Engineer *FAS*

Re: Septic Tank Compliance with ASTM C1227 and New Pipe/Filter Approval

1) Attached please find a listing of all precast concrete tank manufacturers who normally sell tanks for installation in Connecticut. The majority of manufacturers have demonstrated compliance with ASTM C1227 based upon our review of paperwork submitted by their consulting engineers. We are working with several of the manufacturers and their engineers to correct minor deficiencies in the submissions. The end result will be improvement in tank quality, water tightness, and uniformity.

Please note that seven (7) manufacturers listed have not submitted any certification as to their compliance with both ASTM and our Technical Standards, therefore, their tanks cannot be installed in our State at this time. We anticipate that they will submit necessary compliance documentation in the near future.

All tanks must be properly marked with the manufacturer's name/trademark, the tank capacity, date of manufacture, depth of allowable soil cover (or H-20 wheel loading), and must comply with all requirements of tank configuration, filter installation, etc, specified in the Technical Standards. Upon satisfactory inspection of the tank, you may approve units manufactured by the complying manufacturers on the list. We will advise you when the seven others submit satisfactory documentation.

2) Also enclosed are letters describing a new (4" diameter only!) PVC Schedule 40-sewer pipe, Ecolotube, that can be used from the foundation to the septic tank and new filter units manufactured by the Zabel Company. Please note that they have been added to the most recent Appendix B of the Technical Standards, a copy of which is also enclosed.

Please share this information with all of your staff.

N/sewage/frank/July7memo



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<p>A. Rotondo & Sons, Inc. 151 Old Farms Road Avon, CT 06001</p> <p>NO SUBMISSION</p>	<p>Adams Precast Products, Inc. 37 Woolam Road East Windsor, CT 06088</p> <p>NO SUBMISSION</p>	<p>Advanced Precast Concrete Hatchetts Hill Road Old Lyme, CT 06371</p>
<p>Arrow Concrete 560 Salmon Brook Street Granby, CT 06035</p>	<p>Ashaway Cement P.O. Box 435 Ashaway, RI 02804</p>	<p>Atlas Concrete Products 575 Wallingford Road Durham, CT 06422</p>
<p>Connecticut Precast Corp. 555 Fan Hill Road Monroe, CT 06468</p>	<p>SEE NOTES BELOW</p>	<p>Eastern Precast Co. Inc. Commerce Drive Brookfield, CT 06804</p>
<p>Essex Concrete Products Westbrook Road Essex, CT 06426</p>	<p>Granstone, Inc. Gavitt Avenue Westerly, RI</p> <p>NO SUBMISSION</p>	<p>J.B. Concrete Products 1 Arch Street P.O. Box 387 Putnum, CT 06260</p> <p>NO SUBMISSION</p>
<p>J.J. Motes Co. 10 Meadow Lane Stafford Springs, CT 06076</p> <p>NO SUBMISSION</p>	<p>Jolley Precast 463 Putnam Road Danielson, CT 06239</p>	<p>L.G.Wheaton, Inc. Tuckie Road North Windham, CT 06256</p>
<p>M & M Precast Corp. 41 Padanarian Road Danbury, CT</p>	<p>Richards Septic Systems, Inc. 350 Cedar Lane Torrington, CT 06790</p>	<p>Rogers Septic Tank 1480 Post Road East Westport, CT 06880</p>
<p>Superior Concrete Products 830 Portland Cobalt Road Portland, CT 06480</p>	<p>Trell Concrete Products, Inc. 350 Norwich Salem Road East Haddam, CT 06423</p> <p>NO SUBMISSION</p>	<p>Trulee Company 31 Swamp Road Newtown, CT 06470</p> <p>NO SUBMISSION</p>
<p>United Concrete 173 Church Street Yalesville, CT 06492</p>	<p>Universal Precast 61 Donovan Road Oxford, CT 06478</p>	

NO SUBMISSION means company has not submitted any documentation as of 7/6/00 Tanks cannot be accepted until certification is submitted to DPH.

Other companies listed have submitted documentation and are being reviewed for compliance with requirements. Tanks can be accepted after satisfactory field inspection (markings, filter, etc)



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

April 6, 2000

Scott Mills
Regional Engineer, Eastern U.S.
IPEX, Inc.
2441 Royal Windsor Drive
Mississauga, Ontario
Canada L5J 4C7

RE: 4" Schedule 40 Ecolotube PVC Pipe, ASTM F 1760

Dear Mr. Mills:

This office has reviewed the specifications, deflection calculations, and stiffness tests you submitted on the subject pipe. The Ecolotube is a coextruded pipe consisting of a virgin inner and outer layer of PVC that encapsulates a reprocessed-recycled PVC center layer. The Schedule 40, Ecolotube is currently only made in 4 inch diameters. You requested this office consider the pipe for building sewer applications. Building sewers are the pipes running from buildings to septic tanks and grease traps. Approved building sewer pipes are listed in Table 2 of our Technical Standards.

Historically this office has set Schedule 40 PVC ASTM D 1785/ASTM D 2665 as the benchmark for flexible building sewer piping. This benchmark pipe has a pipe stiffness of 310 psi for 4 inch pipe. Your 4" Schedule 40 Ecolotube; ASTM F 1760 has a minimum pipe stiffness of 250psi. The Professional Engineered certified stiffness test documentation you submitted indicated the 9 samples of Schedule 40 Ecolotube had an average tested pipe stiffness of 286 psi.

The pipe deflection calculations you submitted indicated the 4-inch Schedule 40 Ecolotube with a minimum of one foot of cover could satisfactorily support H-20 traffic loadings. You recommend that burial depth of less than one foot be avoided when Schedule 40 Ecolotube is located beneath traffic loading.

This office will approved the Schedule 40 Ecolotube ASTM F 1760 as building sewer pipe with the following conditions:

1. Only 4 inch pipe is approved.
2. A minimum of 1 foot of cover is provided in traffic loading situations.
3. The pipe is appropriately stamped with the Schedule 40 Ecolotube ASTM F 1760 designation.



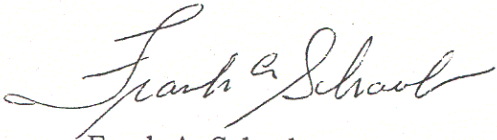
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Scott Mills
April 6, 2000
Page 2

Please feel free to reproduce this letter in its entirety as a means for notifying engineers, health officials, installers, and distributors, of our approval. The letter is not considered an endorsement of the product. This office will add the Schedule 40 Ecolotube pipe to the list of approved building sewer pipe (Table No. 2) in the next printing of our Technical Standards. The next anticipated revision date is January 1, 2002.

If you have any questions or would like to further discuss this matter, please contact this office.

Sincerely,



Frank A. Schaub
Supervising Sanitary Engineer
Environmental Engineering Section
Division of Environmental Health

FAS:lms

cc: Arthur Castellazzo, DPH
Robert Scully, DPH

Gary Cooper
Cooper New England Sales, Inc.
940 Sherman Avenue
Hamden, CT 06514

n:\sewage\bob\mills



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

April 27, 2000

Theo B. Terry, III, RS
VP Government Relations
Zabel Environmental Technologies
P.O. Box 1520
6244 Old LaGrange Road
Crestwood, KY 40014

RE: APPROVAL OF NEW 8" DIAMETER A100 AND A300 SERIES SEPTIC TANK OUTLET FILTERS

Dear Mr. Terry:

We have received technical information and one sample filter (A100-8-12) which is similar to the A100 commercial effluent filter that has been in use in Connecticut for many years. The introduction of two new models and renaming the old A100 should now make it easier for regulators and installers to identify the product, its diameter and length of filter element.

According to information submitted, the old A100 will now be sold as A100-12-20, which will identify it as approximately 12" in diameter and 20" in filter length. The old A100-HIP will now be identified as A100-12-30 which is also 12" in diameter and 30" in overall length.

The new filters which you currently seek approval of are the A100-8 and the A300-8 series which both will be manufactured in lengths of 12", 18", 25", and 32". Physically, the A100-8 and A300-8 series appear the same but internally, the A100-8 series relies upon 1/16" filtration slots whereas the A300-8 series utilizes 1/32" slots. The A100-8 series is rated for residential and commercial use whereas the A300-8 series is designed for commercial and industrial installations.

Based upon review of the information submitted and inspection of the single sample provided, the A100-8 and A300-8 series manufactured in various lengths ranging from 12 to 32" meet our requirements for a non-bypass outlet effluent filters and will be included on the approved filter list. With the number of various filters manufactured by your company increasing, it would be beneficial if the exact model number could be stamped or marked on each element. Installers would then be certain as to the length and slot opening (1/16 or 1/32) and assure proper installation for specific site conditions.

Please feel free to duplicate this approval as notification to licensed installers, professional engineers, town sanitarians, and the general public in Connecticut with the understanding that we do not endorse these filters or any other specific filters of product manufacturers. We request your cooperation in providing us with notice of any product modifications or information concerning installation or servicing of units. If you have any questions or would like to further discuss this matter, please contact our office.

Very truly yours,

Frank A. Schaub
Supervising Sanitary Engineer
Environmental Engineering Section

FAS/jm

C: Arthur Castellazzo
Robert Scully

N/sewage/frank/terryIII



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APPENDIX B

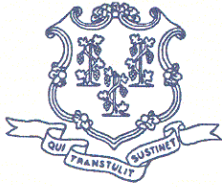
APPROVED SEPTIC TANK
OUTLET FILTERS

INTERNAL OUTLET FILTERS

<u>MANUFACTURER</u>		<u>MODEL</u>
ORENCO SYSTEMS	(541)459-4449	FT0444-36 FT0854-36 FT1254-36 FT1554-36
PREMIER TECH	(418) 867-8883	EFT-160 EFT-260 EFT-320
THORSBY & BOWNE	(503) 345-3001	SANITEE
TUF-TITE	(800) 382-7009	EF-4
POLYLOK.	(800) 234-3119	PL 122
ZABEL	(800) 221-5742	A100-8-12 A300-8-12 A100-8-18 A300-8-18 A100-8-25 A300-8-25 A100-8-32 A300-8-32 A100-12-20 A100-12-30 A1800 A1800-HIP A1801 A1801-HIP
ZOELLER	(800) 928-PUMP	170-0023 170-0058 170-0016 170-0017

EXTERNAL (DOWNSTREAM OF SEPTIC TANK) FILTERS

NORWECO	(419) 668-4471	BIO-KINETIC-BK2000
GAG SIM/TECH	(888) 999-3290	GAG SIM/TECH FILTER



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

July 6, 2000

Carl Thompson, P.E.
Infiltrator Systems, Inc.
804 Bush Lane
Chadds Ford, PA 19317

RE: Infiltrator ISI 3050 Chamber Utilized in a Gallery Configuration

Dear Mr. Thompson:

This office has reviewed the specifications and related information you submitted concerning the Infiltrator ISI 3050 Chamber. The chamber has an outside width of 50" and a maximum height of 30". Placed in a six (6) foot wide excavation, backfilled with 1" broken stone or 1" screened gravel to the height of the unit, the product would be classified as a 30" gallery and granted an effective leaching credit of 7.4 SF/LF. The required center-to-center spacing between rows would be 15 feet.

Our review has determined that the product meets the configuration requirements of the Technical Standards of the Connecticut Public Health Code pertaining to gallery structures. As a result the product is APPROVED for use.

Please feel free to reproduce this letter as a means to notify engineers, health officials, installers and distributors of our approval of this product. This letter may be reproduced in its entirety and is not to be considered an endorsement of the product.

If you have any additional questions please do not hesitate to contact us.

Sincerely,

Arthur J. Castellazzo
Sanitary Engineer III
Environmental Engineering Section

Infil3050.doc

C: Frank Schaub, DPH
Robert Scully, DPH

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STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

NOTICE

April 10, 2000

RE: Septic Tank Cleanout Risers

Dear Property Owner:

On January 1, 2000 a revision to the Public Health Code – Technical Standards began requiring that all existing septic tanks that exceed a depth of 12 inches below grade be retrofitted with risers at the time of tank cleaning.

The purpose of this revision is to make it easier to gain access to the septic tank for cleaning and inspection purposes. Having to dig down more than 12" into what in many cases is compact, stone filled material is both time consuming and costly, when this task has to be accomplished by the septic tank cleaning service. It is hoped that by facilitating tank access, more frequent tank cleanings will be scheduled in the future. Failure to pump out a septic tank every three (3) to five (5) years (depending on the use) could lead to excessive suspended solids leaving the tank into the leaching system. Over a period of time (months or years) this excessive material builds up on the leaching system's infiltrative surfaces causing increased blockage and a costly system failure. Therefore, more frequent cleanings are beneficial to the long term performance of the septic system.

Installing a riser is not a recommendation but a Public Health Code requirement. Contact your licensed septic tank cleaner or septic system installer for further information. If you would like to discuss this matter, please contact the Environmental Engineering Section of the Department of Public Health at (860) 509-7296.



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