

Product Notes



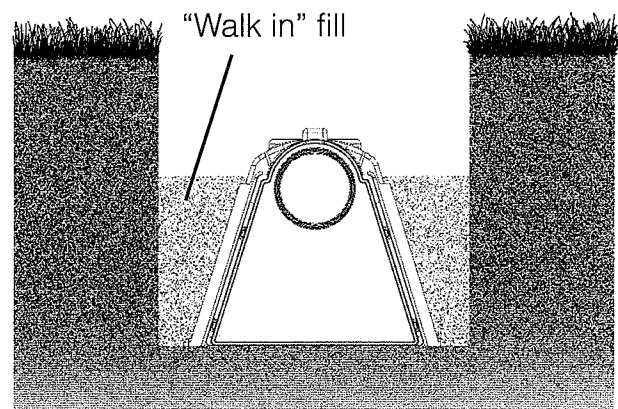
Product Note 3.121A

Re: BioDiffuser Bio 2 and Bio 3 Chamber Installation Guidelines
Date: August 10, 2000

Bio 2 and Bio 3 represent the latest in the line of BioDiffuser plastic leaching chamber products. In Product Note 3.121 guidelines for the installation of BioDiffuser chambers were outlined. This document is intended to complement those instructions. Several modifications incorporated into the Bio 2 and Bio 3 parts create installation procedures which differ slightly from those described in 3.121. When installing the Bio 2 and Bio 3 chamber products, please refer to the following:

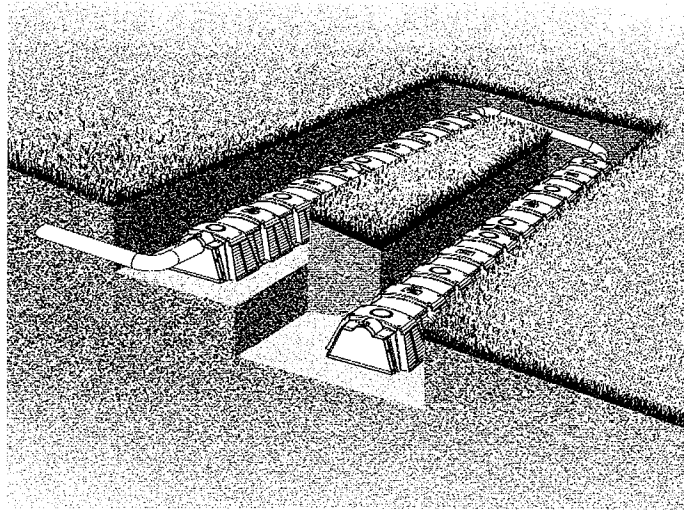
Trench Installation Guidelines

1. Excavate trench to proper width and depth as described in the design and as required by state and local code. The Bio 2 and Bio 3 require minimum trench widths of 18 inches and 24 inches respectively.
2. Scarify the bottom and sidewall surfaces to remove any smearing which may have occurred during excavation. Smooth irregularities in the excavation. A level, flat surface is necessary.
3. Assemble the Bio parts in the trench excavation by engaging the "dome" end of the installing unit over the "post" end of the chamber already in place. No screws are required.
4. Place end plates on each end of the Bio chamber line. Secure in place with backfill — again, no screws are required.
5. Knock out the scribed holes in the roof aspect of the first chamber unit and install distribution pipe from the distribution box or septic tank as described in the plan. Knockouts will accommodate either SDR 35 or Sch 40 pipe. Score the appropriate groove in the knockout with a knife before removing plug with shovel handle in order to create a 4.2" or 4.5" hole as required.
6. Connect serial lines of chambers in same manner where called for.
7. Fill sidewall area to top of the chamber units with native soil (or select fill where required.) Coarse sand or gravel is recommended. Heavy clay, silt, or debris shall not be included in the backfill.
8. "Walk in" fill to compact soil along the sides of the chamber. This is important to achieve full weight/load rating.

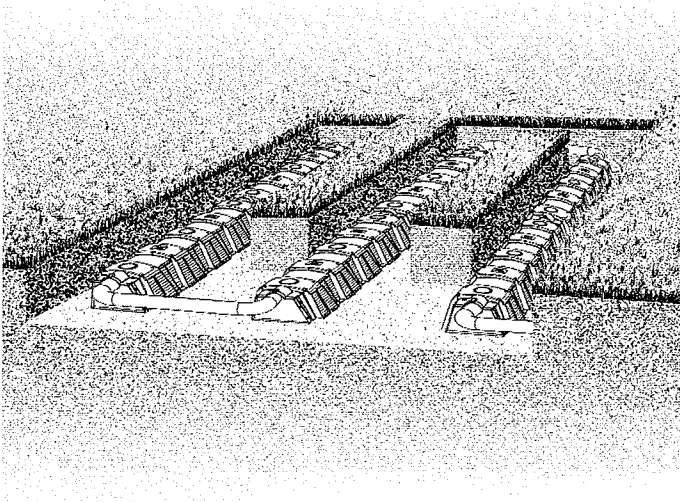


Trench Detail

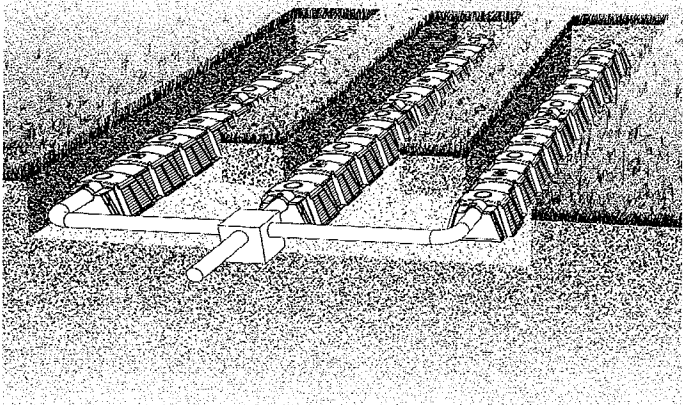
9. Complete the backfill of the system with native soil or select fill to the depth specified in the system design and as required by state and local codes. Avoid large rocks and debris in backfill material. Do not drive equipment over the Bio units without first bridging the excavation. A tracked vehicle is recommended.



Serial System



Series System

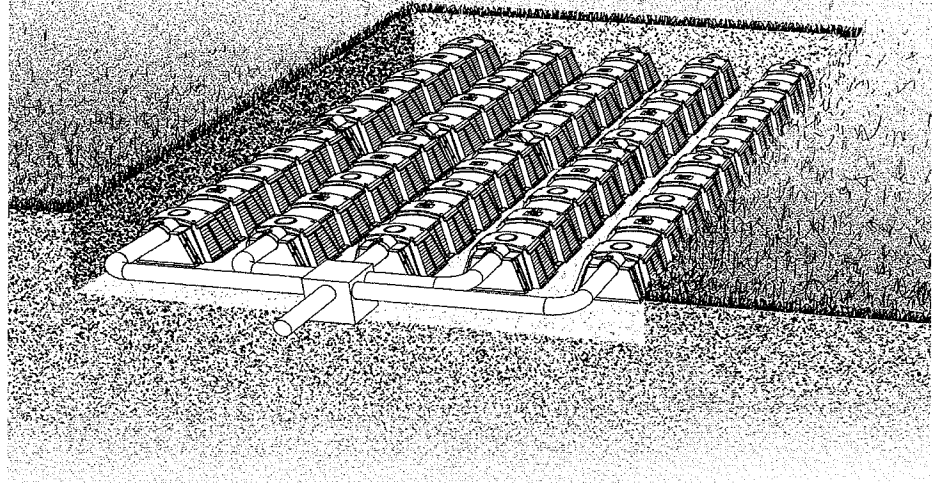


Trench System

Bed Installation

1. Excavate and level installation area.
2. Scarify surface to remove any smearing that may occur during excavation. Smooth irregularities in the excavation.
3. Assemble the BioDiffuser chambers in adjacent rows to cover the desired area by placing the "dome" end of the installing chamber over the "post" end of the chamber already in place. No screws required.
4. Place end plates on end unit of each row. Secure the end plates in place with backfill (no screws required).
5. Knock out scribed opening on roof aspect of each of the first units in each row as drawn in the plan and install distribution pipe. Knockouts will accommodate both SDR 35 and Sch 40 pipe. Score the appropriate groove in the knockout with a knife before removing plug with shovel handle in order to create a 4.2" or 4.5" hole as required.

6. Fill sidewall area to top of chambers with native soil (or select fill where required). Coarse sand or fine gravel may also be used; no heavy clay, silt or debris should be included.
7. "Walk in" fill to compact soil along the sides of the chamber. This is important to achieve full weight / load rating.
8. Using a light tracked machine, cover the BioDiffuser chambers with native soil or select fill to the depth specified in the system design and as required by state and local codes. Avoid large rocks and debris in the backfill material. Do **not** drive equipment over the BioDiffuser chambers without bridging the excavation.



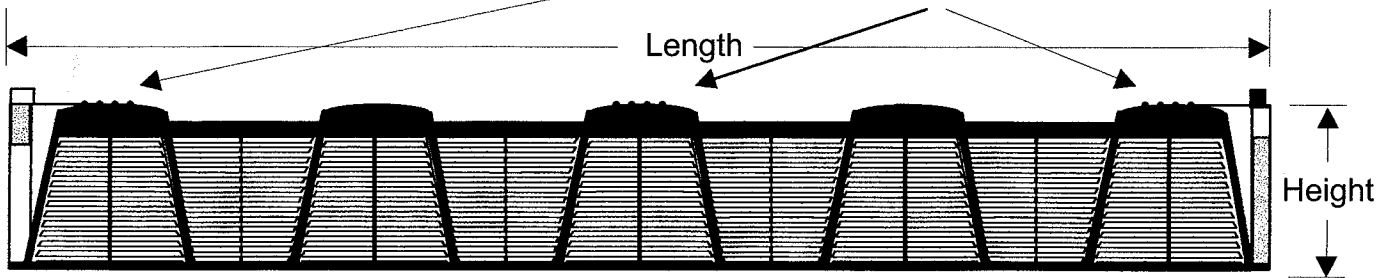
Bed System

BIODIFFUSER LIMITED WARRANTY

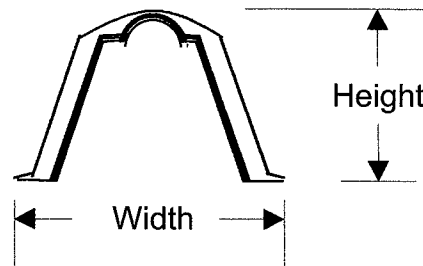
1. PSA, Inc. ("PSA"), a subsidiary of ADS, Inc., warrants to the original purchaser that each BioDiffuser unit is free from defects in materials and workmanship for one year from the date of purchase, when installed in accordance with the manufacturer's instructions. This warranty will not apply to any units that have been subjected to abuse or mishandling, or that have been repaired or altered by anyone other than PSA. PSA's sole responsibility under this warranty shall be the replacement of the unit. PSA's obligation under this warranty shall not include any transportation charges or the costs of installation and **IN NO EVENT SHALL PSA BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.**
2. **TO THE EXTENT ALLOWED BY LAW, THIS WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES (WHETHER EXPRESS, IMPLIED OR STATUTORY), INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**
3. The purchaser shall be responsible for insuring that installation of the unit is completed in accordance with all applicable laws, codes, rules and regulations. In no event shall PSA be responsible for any loss or damage to the purchaser, the units, or any third party resulting installation or shipment.
4. No statements or representations made by any representative of PSA shall alter, vary or expand the provisions of this warranty. This warranty is applicable only to the original purchaser and there shall be no third-party beneficiaries to this warranty.
5. All claims made under this warranty shall be presented to PSA in writing no later than thirty (30) days after the discovery of any defect in the BioDiffuser unit. Any claim under this warranty that is not presented within 30 days upon discovery shall be deemed unconditionally waived.

BioDiffuser™ Bio 2 & Bio 3 Chamber Specifications

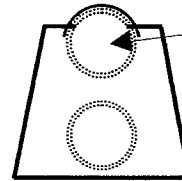
Roof Knockout - Accommodates
ADS 3000, 4" SDR 35 and 4" SCH 40 PVC Pipe



Bio 2 and Bio 3 sizes can withstand H-10 loads when installed with properly graded and compacted soils. A minimum of 12" of cover is required for H-10 loads.



Universal End Cap



4" Knockout
Accommodates
ADS 3000, 4" SDR
35 AND 4" SCH 40

Available Sizes

| Chambers | Bio 2 15" x 12" x 87" H-10 | Bio 3 22" x 12" x 87" H-10 |
|----------------|----------------------------------|----------------------------------|
| ADS Prod. # | 1500BD | 2200BD |
| Width | 15" | 22" |
| Height | 11.9" | 11.9" |
| Length | 86.9" | 86.9" |
| Invert Height* | 11.6" | 11.6" |
| Invert/End Cap | 6.87" | 6.87" |
| Units/Pallet | 90 | 60 |
| Units/TL | 1260 | 840 |

*Based on inlet through top of chamber

ADS / PSA BioDiffuser Chambers can be ordered in pallet quantities. Contact your ADS Customer Service for ordering details - 1-800-821-6710

THE MOST
ADVANCED
NAME IN
DRAINAGE
SYSTEMS®