

**Florida Onsite Sewage Treatment and Disposal Systems**  
**Alternative Drainfield Products as of December 19, 2023 (Reviewed June 10, 2024)**

## Alternative Drainfield System Components 62-6.009(7) F.A.C.

### Advanced Enviro-Septic (AES) by Presby Environmental Inc.

- [Presby Environmental Products Website](#)
- [Approval Memo \(Including Manual Clarifications\) and Florida Installation Manual](#)

Product Name/ Description	Sizing Criteria	Other
<b>Advanced Enviro-Septic (AES)</b>	New systems: Pipe length minimum requirement is 50 feet of pipe per 100 gallons per day of estimated sewage flow. System sand sizing criteria depend on soil texture; see below.	N/A

Texture	Texture Rating	Loading Rate (GPD/ft <sup>2</sup> )	Comparability Rating (ft <sup>2</sup> required mineral aggregate/ ft <sup>2</sup> System Sand) Subsurface/Fill	Comparability Rating (ft <sup>2</sup> required mineral aggregate/ ft <sup>2</sup> System Sand) Mound
<b>Coarse Sand, Sand, Loamy Coarse Sand</b>	Slightly Limited	1.25	2.08	2.08
<b>Fine Sand</b>	Slightly Limited	1.25	2.08	2.08
<b>Loamy Sand</b>	Slightly Limited	1.25	2.08	3.13
<b>Course Sandy Loam, Sandy Loam</b>	Slightly Limited	1.25	2.08	3.13
<b>Very Fine Sand, Loamy Very Find Sand</b>	Moderately Limited	0.60	1.71	2.40
<b>Fine Sandy Loam</b>	Moderately Limited	0.60	1.71	2.40
<b>Very Fine Sandy Loam</b>	Moderately Limited	0.60	1.71	N/A
<b>Loam</b>	Moderately Limited	0.50	1.43	N/A
<b>Silt Loam</b>	Moderately Limited	0.43	1.23	N/A
<b>Sandy Clay Loam</b>	Moderately Limited	0.43	1.23	N/A
<b>Clay Loam, Silty Clay Loam</b>	Moderately Limited	0.27	1.35	N/A
<b>Sandy Clay, Silty Clay</b>	Moderately Limited	0.27	1.35	N/A
<b>Clay</b>	Severely Limited	N/A	N/A	N/A

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**ARC chamber (since 01/17/2012 by Infiltrator; formerly Advanced Drainage Systems)**

- [Infiltrator website](#)
- [Florida Approved Installation Manual](#)

Product Name/ Description	Sizing Criteria	Other
ARC 18 (single chamber)	10.0 sq ft/chamber	0" spacing in bed (minimum)
ARC 18 (dual parallel chamber)	10.0 sqft / chamber---Trench	4"-6" spacing in 36" trench
ARC 24 (single chamber) (Model # 2412BD)	15.0 sq ft / chamber 3.0 sq ft / linear foot of chamber (for cut chamber; <b>cut chamber not approved for installations effective Sept 16, 2020</b> )	4"-6" spacing in bed

**Bio Diffuser chamber since (01/17/2012 by Infiltrator; formerly Advanced Drainage Systems)**

- [Infiltrator website](#)

Product Name/ Description	Sizing Criteria	Other
BioDiffuser 11" Standard (marketed as Original BioDiffuser) (Model # 1100BD): <b>Not approved for installations effective Jan 01, 2014</b>	18.75 sq ft / chamber	4"-6" spacing in bed
BioDiffuser 15" Narrow (marketed as Bio 2) (single chamber) (Model # 1500BD)	14.4 sq ft / chamber	4"-6" spacing in bed
BioDiffuser 15" Narrow (marketed as Bio 2) (dual parallel chamber) (Model # 1500BD)	15.4 sq ft / chamber	Trench
BioDiffuser 22" Narrow (marketed as Bio 3) (single chamber) (Model # 2200BD)	21.6 sq ft / chamber	4"-6" spacing in bed

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**Cultec chamber by Cultec, Inc.**

- [Installation Manual HSES 01-015](#)
- [Clarification Memo HSES 02-006](#)
- [Cultec website](#)

Product Name/ Description	Sizing Criteria	Other
Contactor E224	10.75 sq ft / chamber	N/A
Contactor 100	21.50 sq ft / chamber	N/A

**Geotextile Sand Filter (GSF) by Eljen Corporation**

- [Eljen website](#)

Product Name/ Description	Sizing Criteria	Other
Eljen Geotextile Sand Filter (GSF) model A42	See Innovative System Permit	Must be installed in accordance with the product's <a href="#">Innovative System Permit</a>

**EnviroChamber (since 1/17/2012 by Infiltrator; formerly Hancor)**

- [Infiltrator website](#)

Product Name/ Description	Sizing Criteria	Other
EnviroChamber Pro 11" Standard (Model # 1100BDH) ): <b>Not approved for installations effective Jan 01, 2014</b>	18.75 sq ft / chamber	(discontinued)
<b>Original 34" Standard Envirochamber): Not approved for installations effective Jan 01, 2014</b>	18.75 sq ft / chamber	(discontinued in 2007)
<b>Original 34" Hi-Capacity Envirochamber): Not approved for installations effective Jan 01, 2014</b>	18.75 sq ft / chamber	(discontinued in 2007)

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**EzFlow by Infiltrator (formerly Ring Industrial Group, L.P.; formerly EzFlow, L.P.)**

- [Infiltrator website](#)
- [Florida Approved Installation Manual](#)

Product Name/ Description	Sizing Criteria	Other
<b>EZflow 1003H-GEO (3, 10" pipes)</b>	1 linear foot of product = 3 sqft of mineral aggregate	Trench or Bed
<b>EZflow 1203H-GEO (3, 12" pipes)</b>	1 linear foot of product = 4 sqft of mineral aggregate	Trench or Bed

**FLOWTECH by Infiltrator (formerly ICC Technologies, LLC)**

- [Infiltrator website](#)
- [Florida Approved Installation Manual](#)

Product Name/ Description	Sizing Criteria	Other
<b>FTSG-123H-10C (3, 12" bundles)</b>	1 linear foot of product = 4 sqft of mineral aggregate	Trench or Bed

**GeoMat Leaching Systems by Geomatrix**

- [Geomatrix website](#)

Product Name/ Description	Sizing Criteria	Other
<b>GeoMat 1200, 3900 in several variations</b>	See Innovative System Permit	Must be installed in accordance with the product's <a href="#">Innovative System Permit</a>

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## Infiltrator chamber by Infiltrator

- [Florida Approved Installation Manual; Florida Installation Manual Addendum \(mixing Quick4 and Quick5 chambers\)](#)

Note: cut chambers are not allowed.

Product Name/ Description	Sizing Criteria	Other
Original 30" Chamber Models 1HC10, 1STD10, 1STD10C, 1STD20C, 1STDSC and 1HC20): <b>Not approved for installations effective Jan 01, 2014</b>	18.75 sq ft / chamber	4"-6" spacing in bed
Sidewinder Models: 1HC10SWC, 1STD10SW, 1STDSCSW and 1HC10SW): <b>Not approved for installations effective Jan 01, 2014</b>	18.75 sq ft / chamber	4"-6" spacing in bed
EQ24 (single chamber)	16.67 sq ft / chamber	4"-6" spacing in bed
Double EQ24 (dual parallel chamber)	17.85 sqft / chamber---Trench	4"-6" spacing in 36" trench
EQ36 and EQ36 QuickCut (single chamber)	25.00 sqft / chamber	4"-6" spacing in bed
Quick4 EQ24 LP (single chamber)	7.28 sqft / chamber, 0.00 sqft / end plate	0" spacing in bed (minimum)
Double Quick4 EQ24 LP (dual parallel chamber)	7.80 sqft / chamber, 0.00 sqft / end plate---Trench	4"-6" spacing in 36" trench
Quick4 EQ24 (single chamber) and Quick4 EQ24 HD (single chamber)	8.00 sqft / chamber; 0.00 sqft / end plate	0" spacing in bed (minimum)
Double Quick4 EQ24 (dual parallel chamber) and Double Quick4 EQ24 HD (dual parallel chamber)	8.57 sqft / chamber; 0.00 sqft / end plate---Trench	4"-6" spacing in 36" trench
Quick4 EQ36 and Quick4 EQ36 SL	3 sqft/linear foot (12.00 sqft / chamber); 0.00 sqft / end plate	4"-6" spacing in bed
Quick5 EQ36	3 sqft/linear foot (15.00 sqft / chamber); 0.00 sqft / end plate	4"-6" spacing in bed
Quick4 Plus EQ36 LP and Quick4 Plus EQ36 SL LP	11.32 sqft / chamber, 0.00 sqft / end plate	0" spacing in bed (minimum)
Quick4 Standard Chamber): <b>Not approved for installations effective Jan 01, 2014</b>	12.00 sqft / chamber; 0.00 sqft / end plate	4"-6" spacing in bed

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**Multi-Pipe Rockless Drainfield System (MPRDS) (by Advanced Drainage Systems, Inc. formerly Plastic Tubing Industries, Inc.)**

- [Florida Approved Installation Manual](#)

Product Name/ Description	Sizing Criteria	Other
<b>10 pipes - 3 tier</b>	1 linear foot of product = 2 sqft of mineral aggregate	N/A
<b>14 pipes - 3 tier</b>	1 linear foot of product = 3 sqft of mineral aggregate	N/A
<b>9 pipes - 2 tier; Marketed by PTI as "MPS-9"</b>	1 linear foot of product = 3 sqft of mineral aggregate	N/A
<b>11 pipes - 2 tier; Marketed by PTI as "MPS-11"</b>	1 linear foot of product = 3 sqft of mineral aggregate	N/A
<b>13 pipes - 2 tier; Marketed by PTI as "MPS-13"</b>	1 linear foot of product = 3 sqft of mineral aggregate	N/A

**Polyrock by Turner’s Septic Services, Inc.**

- [Florida Approved Installation Manual](#)

Product Name/ Description	Sizing Criteria	Other
<b>Polyrock (3, 12" bundles)</b>	1 linear foot of product = 4 sqft of mineral aggregate	Performance warranty required

**Septic Stack by Advanced Drainage Systems, Inc.**

- [Florida Approved Installations Manual](#)

Product Name/ Description	Sizing Criteria	Other
<b>Septic Stack-9</b>	1 linear foot of product = 3 sqft of mineral aggregate	Limited warranty required
<b>Septic Stack-11</b>	1 linear foot of product = 3 sqft of mineral aggregate	Limited warranty required
<b>Septic Stack--13</b>	1 linear foot of product = 3 sqft of mineral aggregate	Limited warranty required

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## Tire Chips- Alternative Drainfield System Components 62-6.009(6) F.A.C.

Product Name/ Description	Sizing Criteria	Other
<b>Affordable Tire (renamed 07/2006 to RMD)</b>	Mineral aggregate substitute on sq ft per sq ft basis	Specifications must be met in the field
<b>Florida Tire Recycling, Inc. Tire Chips</b>	Mineral aggregate substitute on sq ft per sq ft basis	Specifications must be met in the field
<b>Global Tire Recycling, Inc.</b>	Mineral aggregate substitute on sq ft per sq ft basis	Specifications must be met in the field
<b>Modern Recycling Inc.</b>	Mineral aggregate substitute on sq ft per sq ft basis	Specifications must be met in the field
<b>RMD Americas of Florida, LLC</b>	Mineral aggregate substitute on sq ft per sq ft basis	Specifications must be met in the field

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## Drip Irrigation- Alternative Drainfield System Components 62-6.009(5) F.A.C.

### WasteFlow by Geo-Flow

- [Geoflow website](#)

Product Name/ Description	Nominal Emitter Flow, Spacing Along Line	Other
<b>WF16-4-24 (WasteFlow Classic (not pressure compensating))</b>	1 gph at 15 psi and 1.44 gph at 30 psi; 24 " spacing	
<b>WF16-4-12 (WasteFlow Classic (not pressure compensating))</b>	1 gph at 15 psi and 1.44 gph at 30 psi; 12 " spacing	
<b>WFPC16-2-24 (WasteFlowPC (pressure compensating))</b>	½ gph, 24 " spacing	
<b>WFPC16-2-12 (WasteFlowPC (pressure compensating))</b>	½ gph, 12 " spacing	
<b>WFPC16-4-24 (WasteFlowPC (pressure compensating))</b>	1 gph, 24 " spacing	
<b>WFPC16-4-12 (WasteFlowPC (pressure compensating))</b>	1 gph, 12 " spacing	
<b>WF-PLAIN (WasteFlowPC (pressure compensating))</b>	Plain (no emitters)	



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**Bioline for Florida by Netafim (Vinyzene-free; all pressure-compensating)**

- [Natafim USA website](#)

Product Name/ Description	Sizing Criteria	Other
<b>08WRAM.4-12500</b>	0.4 gph, 12" spacing, 500' roll	N/A
<b>08WRAM.4-12</b>	0.4 gph, 12" spacing, 1000' roll	N/A
<b>08WRAM.4-18500</b>	0.4 gph, 18" spacing, 500' roll	N/A
<b>08WRAM.4-18</b>	0.4 gph, 18" spacing, 1000' roll	N/A
<b>08WRAM.4-24500</b>	0.4 gph, 24" spacing, 500' roll	N/A
<b>08WRAM.4-24</b>	0.4 gph, 24" spacing, 1000' roll	N/A
<b>08WRAM.6-12500</b>	0.6 gph, 12" spacing, 500' roll	N/A
<b>08WRAM.6-12</b>	0.6 gph, 12" spacing, 1000' roll	N/A
<b>08WRAM.6-18500</b>	0.6 gph, 18" spacing, 500' roll	N/A
<b>08WRAM.6-18</b>	0.6 gph, 18" spacing, 1000' roll	N/A
<b>08WRAM.6-24500</b>	0.6 gph, 24" spacing, 500' roll	N/A
<b>08WRAM.6-24</b>	0.6 gph, 24" spacing, 1000' roll	N/A
<b>08WRAM 1-12500</b>	0.9 gph flow, 12" spacing, 500' roll	N/A
<b>08WRAM 1-12</b>	0.9 gph flow, 12" spacing, 1000' roll	N/A
<b>08WRAM 1-18500</b>	0.9 gph flow, 18" spacing, 500' roll	N/A
<b>08WRAM 1-18</b>	0.9 gph flow, 18" spacing, 1000' roll	N/A
<b>08WRAM 1-24500</b>	0.9 gph flow, 24" spacing, 500' roll	N/A
<b>08WRAM 1-24</b>	0.9 gph flow, 24" spacing, 1000' roll	N/A