

**Florida Onsite Sewage Treatment and Disposal Systems
Alternative Drainfield Products as of March 11, 2022 (Reviewed August 11, 2022)**

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

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

- [Approval Memo \(Including Manual Clarifications\) and Florida Installation Manual](#)

Product Name/ Description	Sizing Criteria	Other
Advanced Enviro-Septic (AES)	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/ft²)	Comparability Rating (ft² required mineral aggregate/ ft² System Sand) Subsurface/Fill	Comparability Rating (ft² required mineral aggregate/ ft² System Sand) Mound
Coarse Sand, Sand, Loamy Coarse Sand	Slightly Limited	1.25	2.08	2.08
Fine Sand	Slightly Limited	1.25	2.08	2.08
Loamy Sand	Slightly Limited	1.25	2.08	3.13
Course Sandy Loam, Sandy Loam	Slightly Limited	1.25	2.08	3.13
Very Fine Sand, Loamy Very Find Sand	Moderately Limited	0.60	1.71	2.40
Fine Sandy Loam	Moderately Limited	0.60	1.71	2.40
Very Fine Sandy Loam	Moderately Limited	0.60	1.71	N/A
Loam	Moderately Limited	0.50	1.43	N/A
Silt Loam	Moderately Limited	0.43	1.23	N/A
Sandy Clay Loam	Moderately Limited	0.43	1.23	N/A
Clay Loam, Silty Clay Loam	Moderately Limited	0.27	1.35	N/A
Sandy Clay, Silty Clay	Moderately Limited	0.27	1.35	N/A
Clay	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; cut chamber not approved for installations effective Sept 16, 2020)	4"-6" spacing in 36" trench

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): Not approved for installations effective Jan 01, 2014	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 EZ24	10.75 sq ft / chamber	N/A
Contactor 100	21.50 sq ft / chamber	N/A

Geotextile Sand Filter (GSF) by Eljen Corporation

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 Innovative System Permit

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

- [Infiltrator website](#)

Product Name/ Description	Sizing Criteria	Other
EnviroChamber Pro 11" Standard (Model # 1100BDH): Not approved for installations effective Jan 01, 2014	18.75 sq ft / chamber	(discontinued)
Original 34" Standard Envirochamber): Not approved for installations effective Jan 01, 2014	18.75 sq ft / chamber	(discontinued in 2007)
Original 34" Hi-Capacity Envirochamber): Not approved for installations effective Jan 01, 2014	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
EZflow 1003H-GEO (3, 10" pipes)	1 linear foot of product = 3 sqft of mineral aggregate	Trench or Bed
EZflow 1203H-GEO (3, 12" pipes)	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
FTSG-123H-10C (3, 12" bundles)	1 linear foot of product = 4 sqft of mineral aggregate	Trench or Bed

GeoMat Leaching Systems by Geomatrix

Product Name/ Description	Sizing Criteria	Other
GeoMat 1200, 3900 in several variations	See Innovative System Permit	Must be installed in accordance with the product's Innovative System Permit

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Infiltrator chamber by Infiltrator

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

Product Name/ Description	Sizing Criteria	Other
Original 30" Chamber Models 1HC10, 1STD10, 1STD10C, 1STD20C, 1STDSC and 1HC20): Not approved for installations effective Jan 01, 2014	18.75 sq ft / chamber	4"-6" spacing in bed
Sidewinder Models: 1HC10SWC, 1STD10SW, 1STDSCSW and 1HC10SW): Not approved for installations effective Jan 01, 2014	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	12.00 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): Not approved for installations effective Jan 01, 2014	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
10 pipes - 3 tier	1 linear foot of product = 2 sqft of mineral aggregate	N/A
14 pipes - 3 tier	1 linear foot of product = 3 sqft of mineral aggregate	N/A
9 pipes - 2 tier; Marketed by PTI as "MPS-9"	1 linear foot of product = 3 sqft of mineral aggregate	N/A
11 pipes - 2 tier; Marketed by PTI as "MPS-11"	1 linear foot of product = 3 sqft of mineral aggregate	N/A
13 pipes - 2 tier; Marketed by PTI as "MPS-13"	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
Polyrock (3, 12" bundles)	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
Septic Stack-9	1 linear foot of product = 3 sqft of mineral aggregate	Limited warranty required
Septic Stack-11	1 linear foot of product = 3 sqft of mineral aggregate	Limited warranty required
Septic Stack--13	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
Affordable Tire (renamed 07/2006 to RMD)	Mineral aggregate substitute on sq ft per sq ft basis	Specifications must be met in the field
Florida Tire Recycling, Inc. Tire Chips	Mineral aggregate substitute on sq ft per sq ft basis	Specifications must be met in the field
Global Tire Recycling, Inc.	Mineral aggregate substitute on sq ft per sq ft basis	Specifications must be met in the field
Modern Recycling Inc.	Mineral aggregate substitute on sq ft per sq ft basis	Specifications must be met in the field
RMD Americas of Florida, LLC	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
WF16-4-24 (WasteFlow Classic (not pressure compensating))	1 gph at 15 psi and 1.44 gph at 30 psi; 24 " spacing	
WF16-4-12 (WasteFlow Classic (not pressure compensating))	1 gph at 15 psi and 1.44 gph at 30 psi; 12 " spacing	
WFPC16-2-24 (WasteFlowPC (pressure compensating))	½ gph, 24 " spacing	
WFPC16-2-12 (WasteFlowPC (pressure compensating))	½ gph, 12 " spacing	
WFPC16-4-24 (WasteFlowPC (pressure compensating))	1 gph, 24 " spacing	
WFPC16-4-12 (WasteFlowPC (pressure compensating))	1 gph, 12 " spacing	
WF-PLAIN (WasteFlowPC (pressure compensating))	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
08WRAM.4-12500	0.4 gph, 12" spacing, 500' roll	N/A
08WRAM.4-12	0.4 gph, 12" spacing, 1000' roll	N/A
08WRAM.4-18500	0.4 gph, 18" spacing, 500' roll	N/A
08WRAM.4-18	0.4 gph, 18" spacing, 1000' roll	N/A
08WRAM.4-24500	0.4 gph, 24" spacing, 500' roll	N/A
08WRAM.4-24	0.4 gph, 24" spacing, 1000' roll	N/A
08WRAM.6-12500	0.6 gph, 12" spacing, 500' roll	N/A
08WRAM.6-12	0.6 gph, 12" spacing, 1000' roll	N/A
08WRAM.6-18500	0.6 gph, 18" spacing, 500' roll	N/A
08WRAM.6-18	0.6 gph, 18" spacing, 1000' roll	N/A
08WRAM.6-24500	0.6 gph, 24" spacing, 500' roll	N/A
08WRAM.6-24	0.6 gph, 24" spacing, 1000' roll	N/A
08WRAM 0.9-12500	0.9 gph flow, 12" spacing, 500' roll	N/A
08WRAM 0.9-12	0.9 gph flow, 12" spacing, 1000' roll	N/A
08WRAM 0.9-18500	0.9 gph flow, 18" spacing, 500' roll	N/A
08WRAM 0.9-18	0.9 gph flow, 18" spacing, 1000' roll	N/A
08WRAM 0.9-24500	0.9 gph flow, 24" spacing, 500' roll	N/A
08WRAM 0.9-24	0.9 gph flow, 24" spacing, 1000' roll	N/A
08WRAM 1-12500	Model number discontinued, was identical to 08WRAM.9-1250	N/A
08WRAM 1-12	Model number discontinued, was identical to 08WRAM.9-12	N/A
08WRAM 1-18500	Model number discontinued, was identical to 08WRAM.9-1850	N/A
08WRAM 1-18	Model number discontinued, was identical to 08WRAM.9-18	N/A
08WRAM 1-24500	Model number discontinued, was identical to 08WRAM.9-24500	N/A
08WRAM 1-24	Model number discontinued, was identical to 08WRAM.9-24	N/A