

5.7 Gravelless Trench Components

Revision: November 17, 2014

Table 5-6 shows the components of gravelless trenches, along with their certification date. Table 5-7 provides trench and product width-to-rating correlation.

Table 5-6. Gravelless trench components.

Gravelless Drainfield Systems	Chambers, Bundled or Large Diameter Pipe	Model	Sizing Factor (%)	Rating (ft ² /ft)	Unit Dimensions	Certification Date
Advanced Drainage Systems	Lg. dia. pipe	SB-2 (Ø8 in.)	25	1.33	20 ft. rolls	9/82
		SB-2 (Ø10 in.)	25	1.33	20 ft. rolls	
Eljen Corporation	Bundled module	HB ^{b, e}	25	4.00	36 x 24 x 7 in.	6/09
GSF Geotextile Sand Filter		Type B. ^{b, f}	25	4.00	36 x 48 x 7 in.	6/09
Infiltrator Systems, Inc.	Chamber	Quick4 Standard	25	4.00	34 x 48 x 12 in.	7/05
Advanced Drainage Systems ^a		Quick4 Plus Standard	25	4.00	34 x 48 x 12 in.	6/09
Bio-Diffuser Chambers ^a		Quick4 Plus Standard LP	25	4.00	34 x 48 x 8 in.	6/09
Hancor ^a		Quick4 Equalizer 36	25	2.67	22.8 x 48 x 10 in.	7/05
		Arc 36	25	4.00	34.5 x 60 x 13 in.	1/06
		Standard 1100BD	25	4.00	34 x 76 x 11 in.	12/92
		High capacity 1400BD	25	4.00	34 x 76 x 14 in.	12/92
	EPS pipe	EZflow 1201P ^d and 1201P-GEO ^{c, d}	25	1.33	Ø12 x 60 in.	2/04
		EZflow 1202H ^e and 1202H-GEO ^{c, e}			Ø 12 x 120 in.	
					Ø 24 x 60 in.	
		EZ flow 1203H ^f and 1203H-GEO ^{c, f}	25	4.00	Ø 12 x 120 in.	10/07
Plastic Tubing Industries, Inc. Multi-Pipe Rock Replacement Distribution System	Bundled pipe	9-pipe system	25	1.33	10 ft lengths	5/98
		11-pipe system	25	1.33	10 ft lengths	5/98
		13-pipe system	25	1.33	10 ft lengths	5/98

Gravelless Drainfield Systems	Chambers, Bundled or Large Diameter Pipe	Model	Sizing Factor (%)	Rating (ft ² /ft)	Unit Dimensions	Certification Date
Prinsco, Inc.	Lg. dia. pipe	Goldline GLP (Ø8 in.)	25	1.33	10 and 20 ft lengths	12/95
		Goldline GLP (Ø10 in.)	25	1.33	10 and 20 ft lengths	

Note: Expanded polystyrene (EPS)

- a. Infiltrator Systems, Inc. acquired the Arc, Hancor, and Bio-Diffuser product lines from Advanced Drainage Systems, Inc. Product markings may change to reflect new ownership.
- b. GSF system design includes 12 inches of modified ASTM C-33 sand at trench bottom.
- c. Geo suffix indicates product contains geotextile fabric inside the mesh. Geotextile should be oriented on top to limit soil intrusion.
- d. In 1-foot wide trench
- e. In 2-foot wide trench
- f. In 3-foot wide trench

Table 5-7. Trench and product width-to-rating correlation. (The measured width of the product must be at least 90% of the design trench width.)

Trench Width (inches)(feet)	Product Measured Width must be at least (inches)	Rating = Design Trench Width divided by 0.75 ft ² /lineal foot
36 (3.0)	32.4	4.00
30 (2.5)	27.0	3.33
24 (2.0)	21.6	2.67
18 (1.5)	16.2	2.00
12 (1.0)	10.8	1.33