TREATMENT PERFORMANCE RESULTS

SEPCON
Moyglare Road, Kilcock, Meath, Ireland

EN 12566-3
Results corresponding to EN 12566-3 and S.R. 66

PIA2020-SR66-1601-1010.02

SEPCON – BAF Concrete Sewage Treatment System
Biological Aerated Filter (BAF)

Nominal organic daily load	0.32 kg/d		
Nominal hydraulic daily load	0.90 m^3/d		
Material	Concrete		
Watertightness	Pass		
Structural behaviour (Vertical load test)	Pass (also wet conditions)		
Durability	Pass		
Treatment efficiency (nominal sequences)		Efficiency	Effluent
	COD	91.7%	61 mg/l
	BOD_5	95.5 %	15 mg/l
	NH_4-N	94.5 %	1.7 mg/l
	SS	94.2 %	25 mg/l
Number of desludging	Not more than once		
Electrical consumption	1.1 kWh/d		

Performance tested by:

PIA – Prüfinstitut für Abwassertechnik GmbH
(PIA GmbH)
Hergenrather Weg 30
52074 Aachen, Germany

This document replaces neither the declaration of performance nor the CE marking.

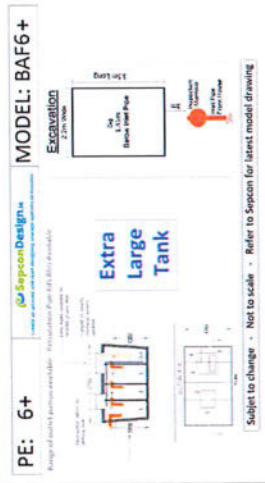
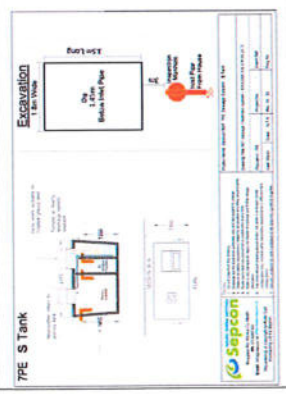
PIA - Sustainable Certification
geprüft - tested - testé

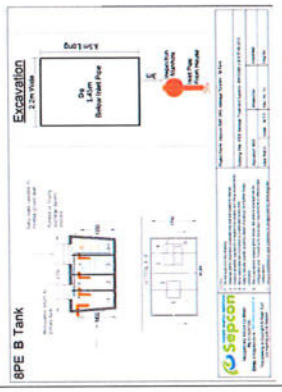
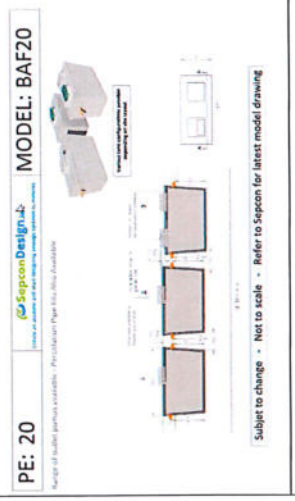
Notified Body No.: 1739

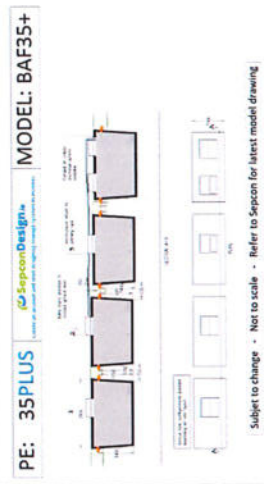
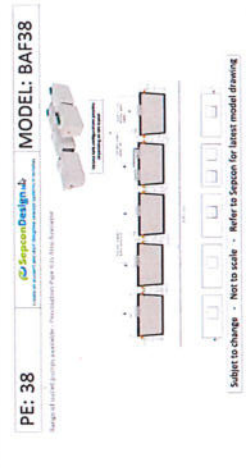
Certified according to ISO 9001:2008

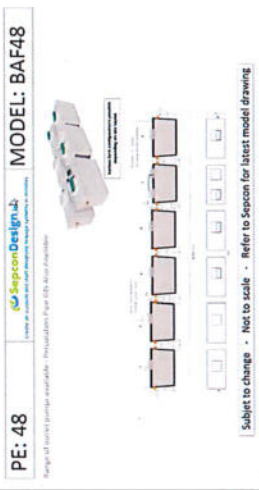
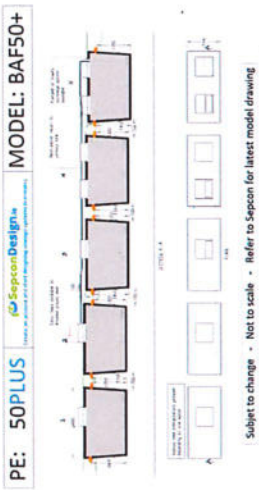
Verschitz/Wermter September 2020

SEPCON - BAF range and its referring test reports:

Population equivalent (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
Initial Type Test (ITT) 6 900 l/d		Pass PIA2015-WD/NC-1508-1043.02	Pass PIA2010-123B47.02	Pass PIA2010-ST-BT0902-1003.02 For wet ground conditions also, 0.25 m installation depth from invert inlet	Pass PIA2016-DH-1601-1001.02
6 900 l/d		Pass PIA2020-WD-1601-1010	Pass Range conformity according to S.R. 66:2015	Pass PIA2020-ST-BT1601-1010 For wet ground conditions also, 0.25 m installation depth from invert inlet	Pass PIA2016-DH-1601-1001.02
7 1.050 l/d		Pass PIA2020-WD-1601-1010	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, 0.25 m installation depth from invert inlet	Pass PIA2016-DH-1601-1001.02

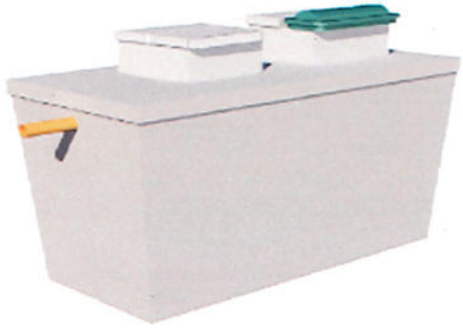
Population equivalent (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
8 1,200 l/d		Pass PIA2020-WD-1601-1010	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, 0.25 m installation depth from invert inlet	Pass PIA2016-DH-1601-1001.02
12 1,800 l/d		Pass PIA2015-WD/NC-1508-1043.02	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, 0.25 m installation depth from invert inlet	Pass PIA2016-DH-1601-1001.02
20 3,000 l/d		Pass PIA2015-WD/NC-1508-1043.02	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, 0.25 m installation depth from invert inlet	Pass PIA2016-DH-1601-1001.02

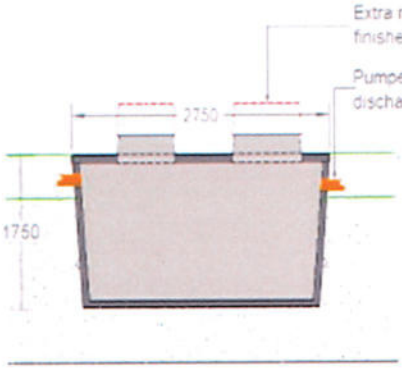
Population equivalent (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
28 4,200 l/d		Pass PIA2015-WD/NC-1508-1043.02	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, 0.25 m installation depth from invert inlet	Pass PIA2016-DH-1601-1001.02
35 5,250 l/d		Pass PIA2015-WD/NC-1508-1043.02	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, 0.25 m installation depth from invert inlet	Pass PIA2016-DH-1601-1001.02
38 5,700 l/d		Pass PIA2015-WD/NC-1508-1043.02	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, 0.25 m installation depth from invert inlet	Pass PIA2016-DH-1601-1001.02

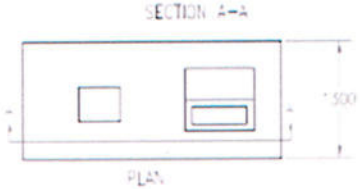
Population equivalent (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
48 7,200 l/d		Pass PIA2015-WD/NC-1508-1043.02	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, 0.25 m installation depth from invert inlet	Pass PIA2016-DH-1601-1001.02
50 7,500 l/d		Pass PIA2015-WD/NC-1508-1043.02	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, 0.25 m installation depth from invert inlet	Pass PIA2016-DH-1601-1001.02

PE: 6	SepconDesign.ie Create an account and start designing sewage systems in minutes	MODEL: BAF6

Range of outlet pumps available - Percolation Pipe Kits Also Available



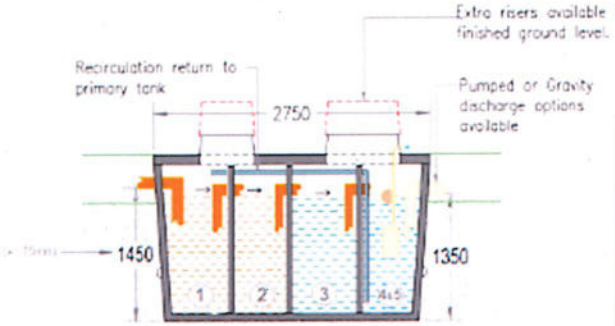


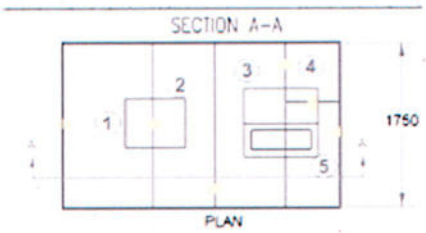


Subjet to change - Not to scale - Refer to Sepcon for latest model drawing

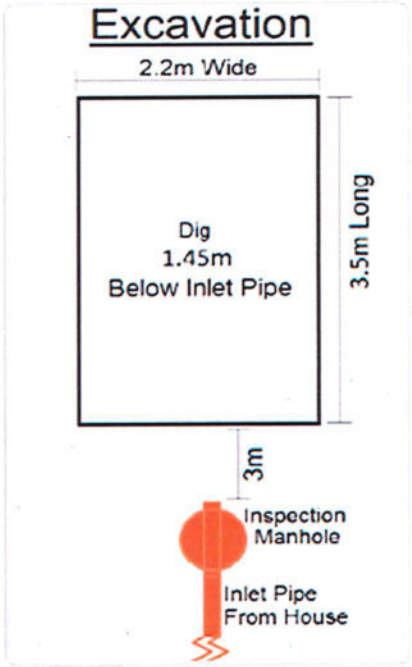
PE: 6+	SepconDesign.ie Create an account and start designing sewage systems in minutes	MODEL: BAF6+

Range of outlet pumps available - Percolation Pipe Kits Also Available



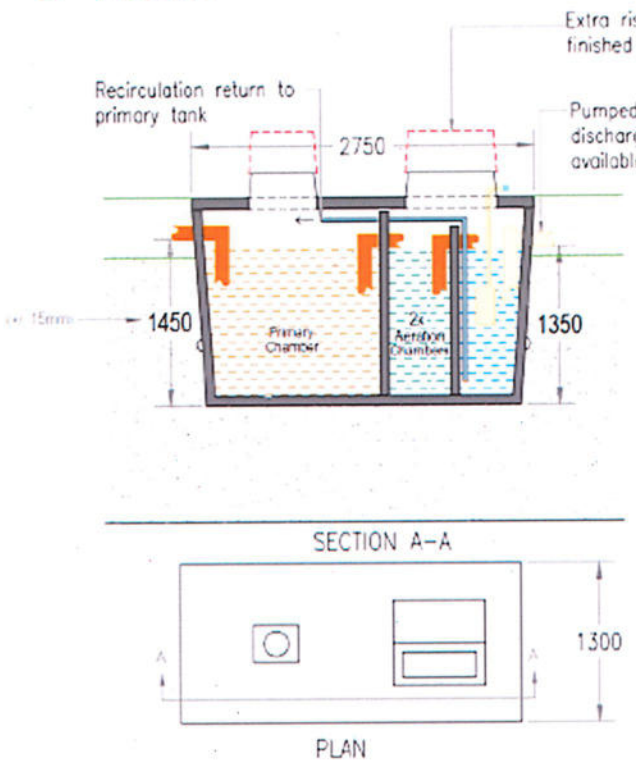


Extra Large Tank

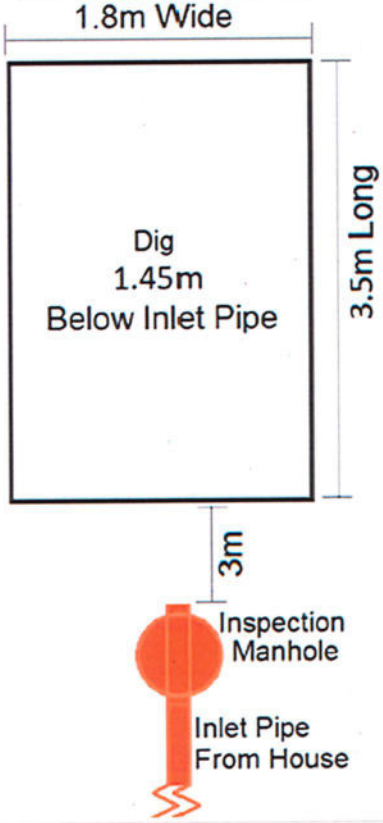


Subjet to change - Not to scale - Refer to Sepcon for latest model drawing

7PE **S** Tank



Excavation



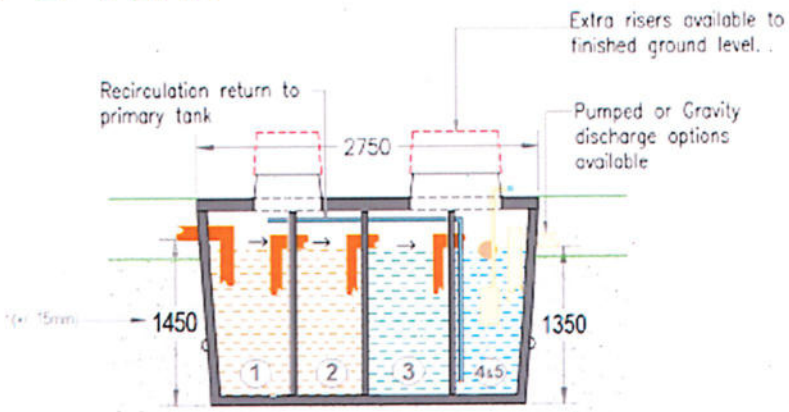
waste water services
Sepcon
Moyglare Rd, Kilcock,Co Meath
Ph: 01 6287300
Email: info@sepcon.ie Web:www.sepcon.ie

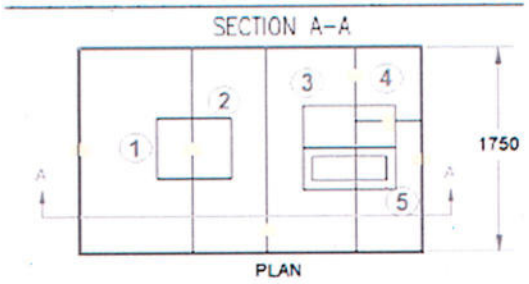
This drawing is Copyright to Ryan Civil Contracting Ltd t/a Sepcon

Notes:
1. Do not scale from this drawing.
2. Drawings are for illustration purposes only and are subject to change.
3. Observe all safety regulations in regard to excavation and lifting requirements.
4. Never leave tank lids uncovered or unattended at any time.
5. Refer to the site specific report for details of loadings and further design information.
6. The cross section drawing above shows the tanks in a straight series configuration only. Consult us for excavation requirements in different tank configurations.
7. Ground conditions for tank installation to be approved by clients engineer.

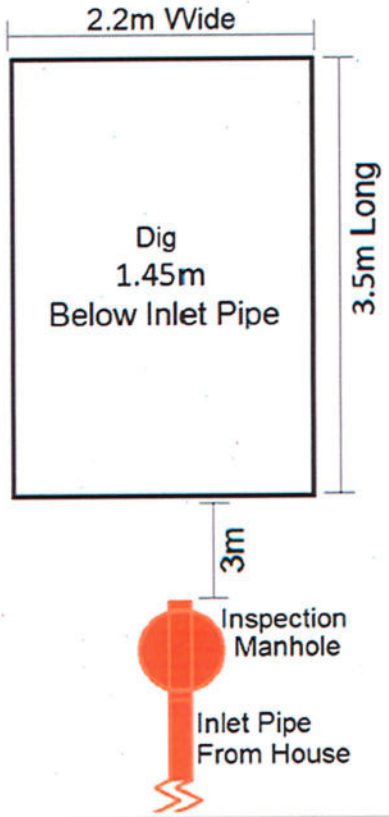
Project Name: Sepcon BAF 7PE Sewage System - S Tank			
Drawing Title: PE7 Sewage Treatment System - EN12566-3 & S.R.66:2015			
Population: 7PE		*Project No:*	*Client Ref:*
Date: Mar20	*Scale:* N.T.S	*Rev. no:* S3	*Dwg No:*

8PE **B** Tank





Excavation



waste water services Sepcon

Moyglare Rd, Kilcock,Co Meath
Ph: 01 6287300
Email: info@sepcon.ie Web:www.sepcon.ie

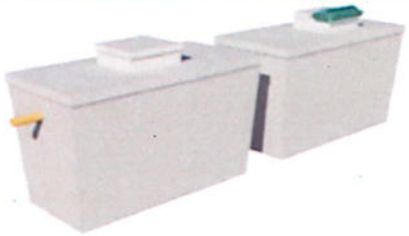
This drawing is Copyright to Ryan Civil Contracting Ltd t/a Sepcon

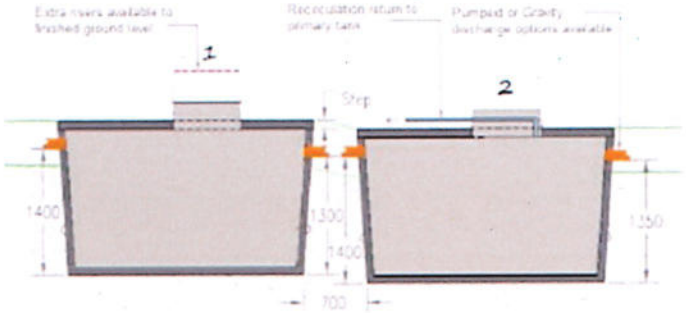
Notes:
1. Do not scale from this drawing
2. Drawings are for illustration purposes only and are subject to change.
3. Observe all safety regulations in regard to excavation and lifting requirements.
4. Never leave tank lids uncovered or unattended at any time.
5. Refer to the site specific report for details of loadings and further design information.
6. The cross section drawing above shows the tanks in a straight series configuration only. Consult us for excavation requirements in different tank configurations.
7. Ground conditions for tank installation to be approved by clients engineer.

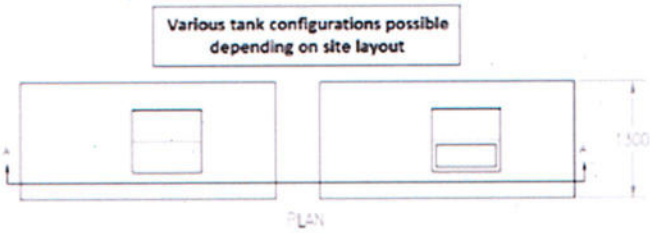
Project Name: Sepcon BAF 8PE Sewage System - **U** Tank			
Drawing Title: PE8 Sewage Treatment System - EN12566-3 & S.R.66:2015			
Population: 8PE		*Project No:*	*Client Ref:*
Date: Mar20	*Scale:* N.T.S	*Rev. no:* S3	*Dwg No:*

PE: 12	SepconDesign.ie Create an account and start designing sewage systems in minutes	MODEL: BAF12

Range of outlet pumps available - Percolation Pipe Kits Also Available







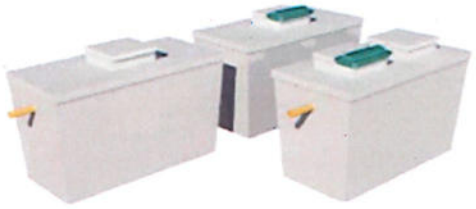
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PE: 20

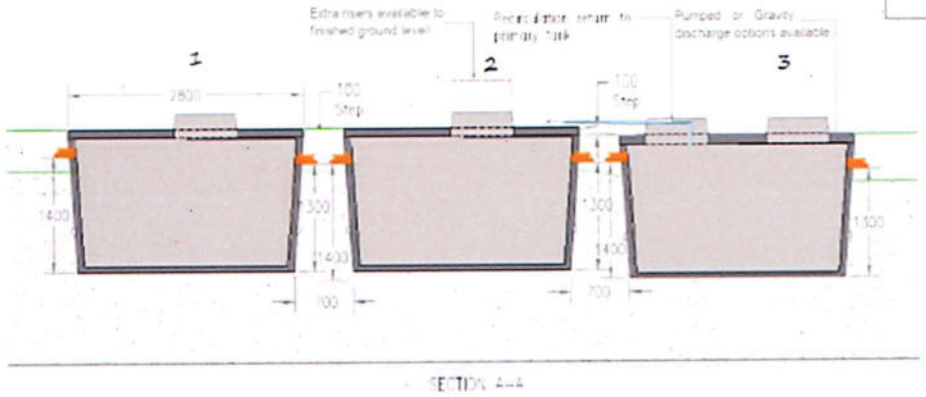
SepconDesign.ie
Create an account and start designing sewage systems in minutes

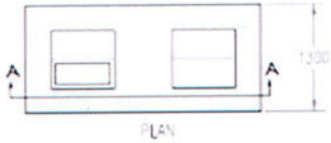
MODEL: BAF20

Range of outlet pumps available - Percolation Pipe Kits Also Available



Various tank configurations possible depending on site layout





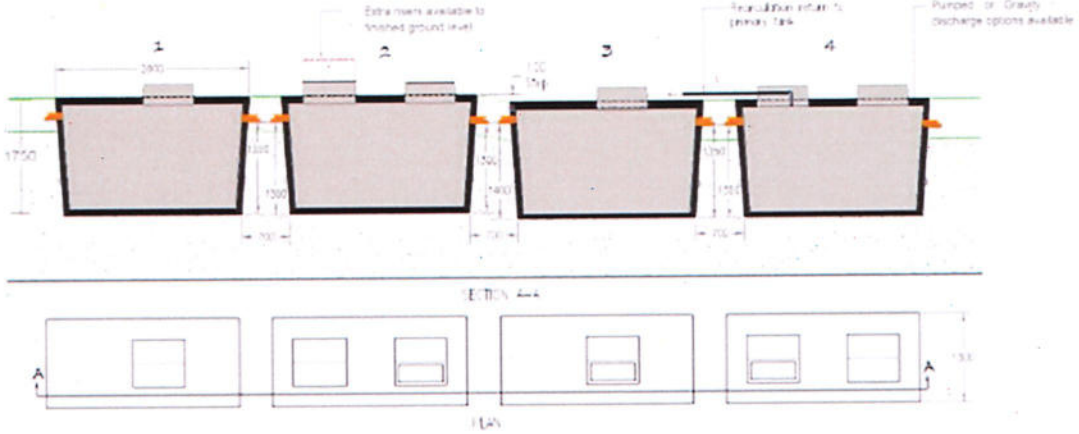
Subjet to change - Not to scale - Refer to Sepcon for latest model drawing

PE: 28	SepconDesign.ie Create an account and start designing sewage systems in minutes	MODEL: BAF28

Range of outlet pumps available - Percolation Pipe Kits Also Available

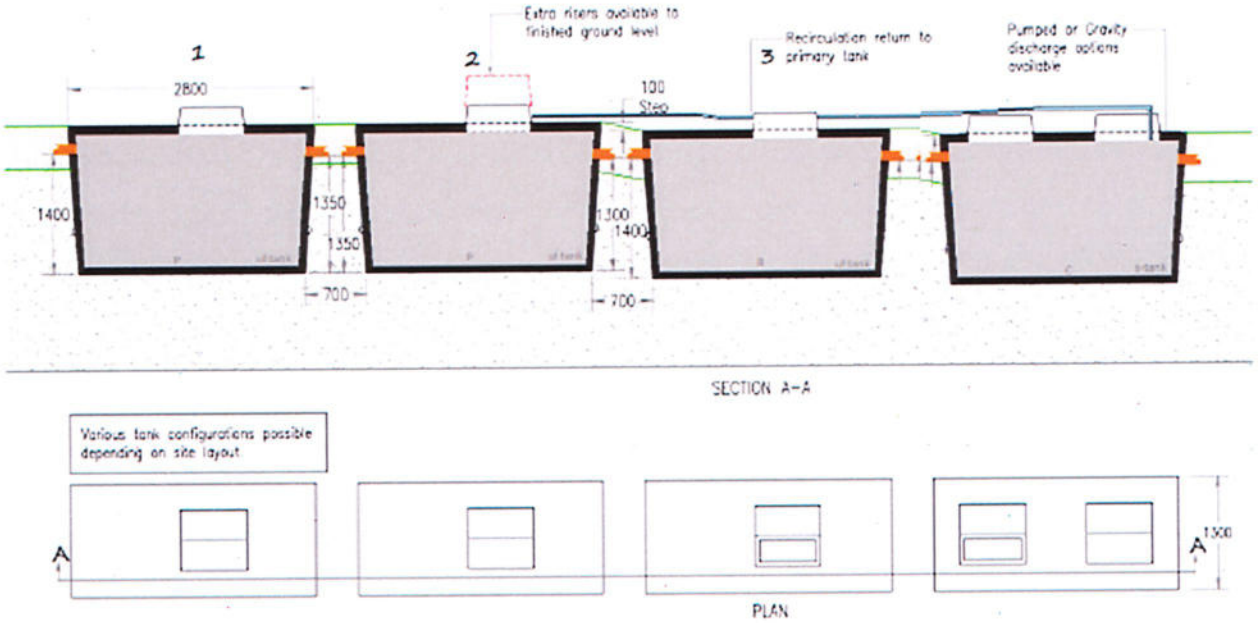
Various tank configurations possible depending on site layout





Subjet to change - Not to scale - Refer to Sepcon for latest model drawing

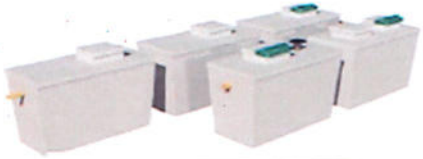
PE: 35PLUS	SepconDesign.ie Create an account and start designing sewage systems in minutes	MODEL: BAF35+



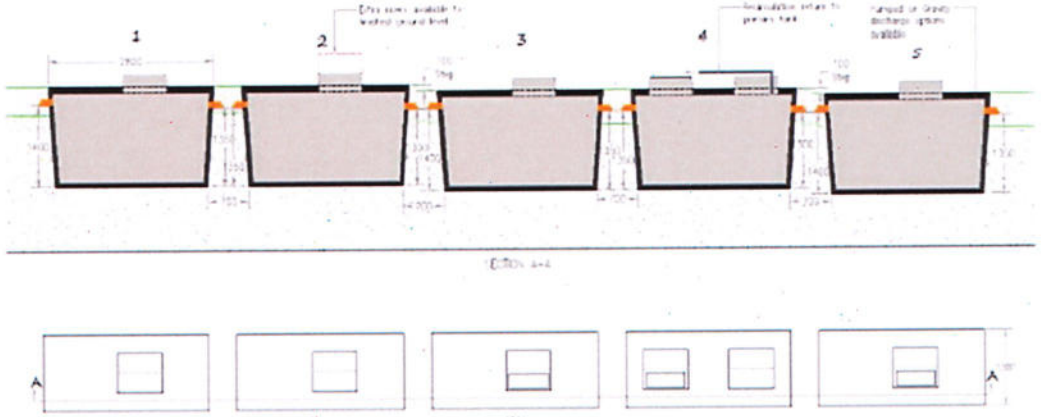
Subjet to change - Not to scale - Refer to Sepcon for latest model drawing

PE: 38	SepconDesign.ie Create an account and start designing sewage systems in minutes	MODEL: BAF38

Range of outlet pumps available - Percolation Pipe Kits Also Available



Various tank configurations possible depending on site layout



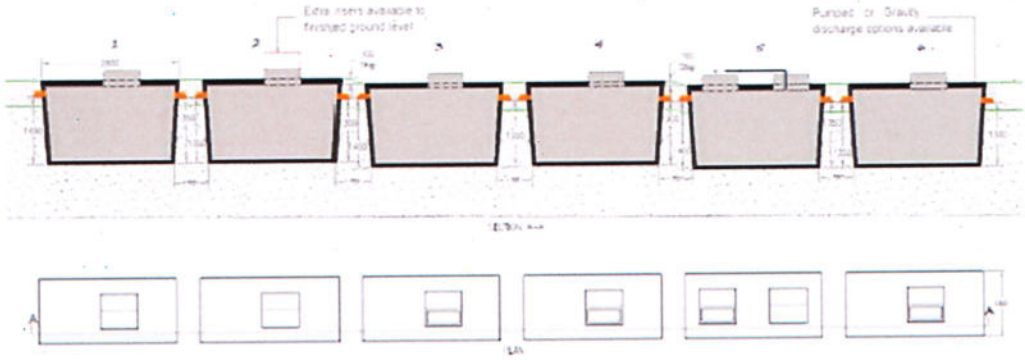
Subjet to change - Not to scale - Refer to Sepcon for latest model drawing

PE: 48	SepconDesign.ie Create an account and start designing sewage systems in minutes	MODEL: BAF48

Range of outlet pumps available - Percolation Pipe Kits Also Available



Various tank configurations possible depending on site layout

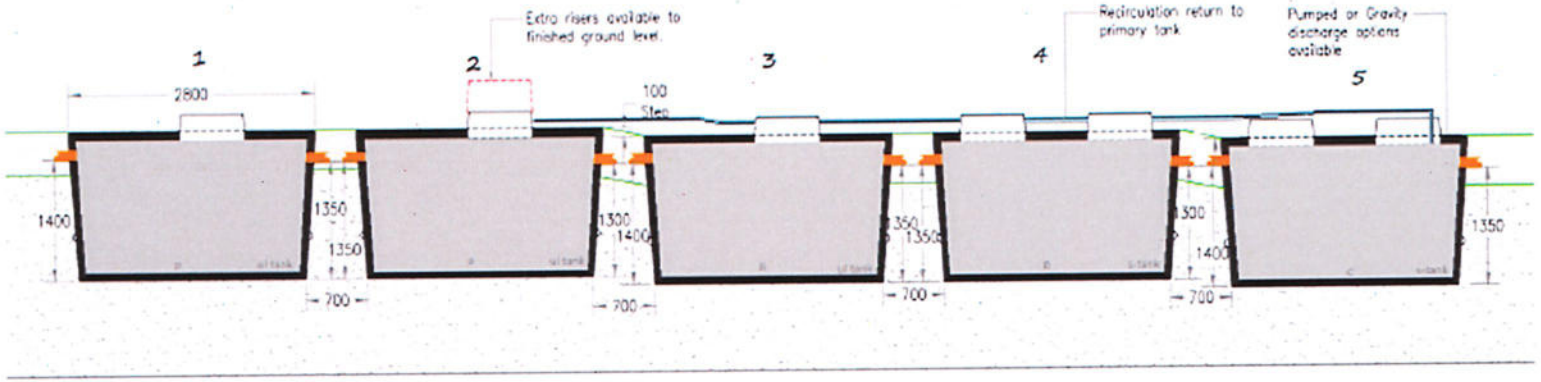


Subjet to change - Not to scale - Refer to Sepcon for latest model drawing

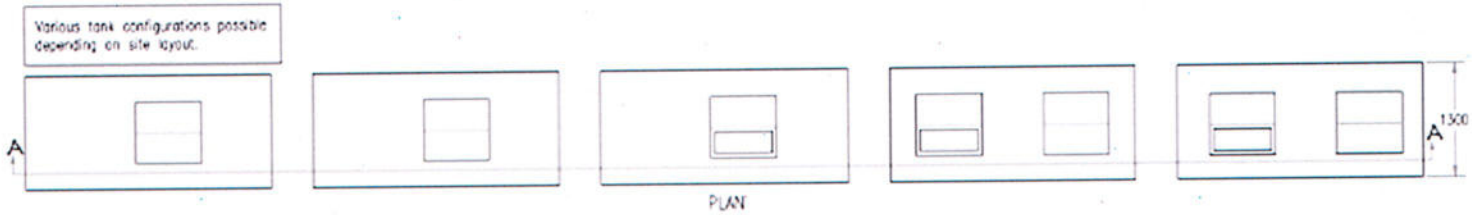
PE: 50PLUS

SepconDesign.ie
Create an account and start designing sewage systems in minutes

MODEL: BAF50+



SECTION A–A



PLAN

Subjet to change - Not to scale - Refer to Sepcon for latest model drawing