INSTRUCTIONS

OAKSTOWN
BAF System

Site Preparation and Excavation Instructions O'Reilly Oakstown BAF 8PE Wastewater Treatment System.

1. When choosing the location to dig, first consult your **Site Characterisation Report** as submitted to the planning authority. This will show the proposed location of the system and the design of the percolation area in detail. It will also note the presence of rock or a high water table, in which case a rock-breaker or water-pump can be organised in advance. It is important to observe the EPA Separation Guidelines as shown below. See table 1. These show the minimum distance the system and percolation area may be from the house etc.

FEATURE	MINIMUM SEPARATION (m)	
	Oakstown BAF Sewage treatment System Recommendations	
	Oakstown BAF Sewage treatment System	Irrigation Area
Dwelling served	7(1)	10(3)
Adjacent dwelling	7(1)	10(3)
Wall	3(1)	3
Road	4(1)	4
Site boundary	3(1)	3
Portable water source	10	30 - 100(2)
Watercourse	10	10

TABLE 1

2. Ensure that there is a solid unimpeded access for the Oakstown truck back to the hole. Clear any build up of clay from around the hole to allow the truck to reverse to within one metre of the hole.
3. In very wet conditions, it is best to leave the last few bucketfuls to be dug when the truck arrives. If the ground is rocky, it is advisable to dig the hole ahead of time to minimise delays on-site.
4. Ensure there are no power lines or other hazards above the excavation site.
5. We recommend an inspection chamber (AJ) be fitted just before the BAF Unit.

Digging Instructions

6. Generally the Oakstown BAF 2-Tank System is installed side by side as follows: See Diagram 1.

   Dig a hole 3300mm (11ft) square. This comfortably accommodates both tanks and leaves space to fit the connecting pipes. The depth of the hole for the first tank is 1500mm (5ft) below the inlet pipe.

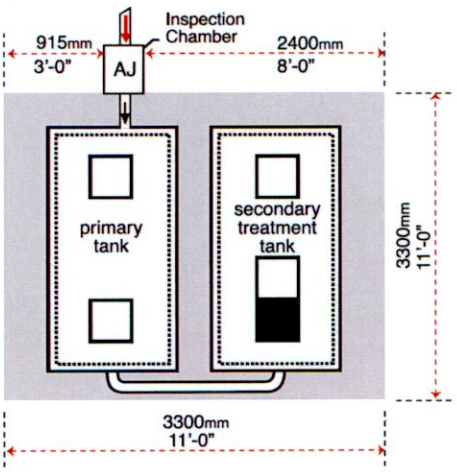

DIAGRAM 1

Two Tank BAF Unit as shown from above

Oakstown, Trim
Co. Meath

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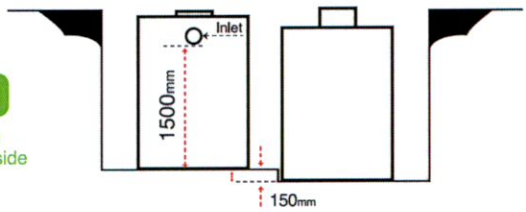
The second tank sits 150mm (6inch) lower as shown in Diagram 2:

DIAGRAM 2

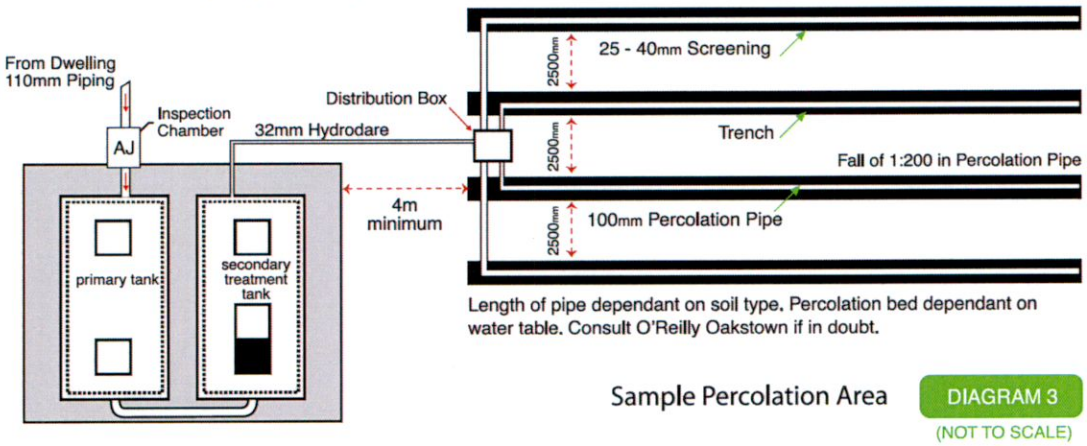
Two Tank BAF unit as shown side by side



7. When fitting tanks in **tandem**, dig a hole 6700mm (22ft) long by 1825mm (6ft) wide. Again dig 1500mm (5ft) below the invert for the first tank and drop 100mm (4inch) for the second tank.
8. Although it is not essential, a bed of screenings will help to ensure a level surface for each tank.
9. Before fitting the connecting pipe, backfill between and around the tanks with clay. Compact the clay underneath the connecting pipe with the digger bucket and cover the pipes with sand/gravel when fitted, to prevent the pipe sinking under pressure.
10. Please make sure that the **final finished ground** level is 75mm (3inch) below the top of the risers to prevent flooding of the electronic controls in exceptionally wet weather. If in doubt, we can hold off on commissioning the system until landscaping is finished and fit extra risers then if required.
11. Our driver will leave sufficient 7-Core Cable to reach the house. Our technician will commission the system by installing the air pump, water pump and electronic controls and wiring them at the system. He will leave the "internal panel" for connection by your electrician to the mains with the most senior person on site. If there is nobody on site, it will be left inside the "Green Box" on the system itself.

Percolation

12. It is important to refer to the relevant **Site Characterisation Report** for size and design of the percolation area. The following diagram is only a simple outline.



Length of pipe dependant on soil type. Percolation bed dependant on water table. Consult O'Reilly Oakstown if in doubt.

Sample Percolation Area

DIAGRAM 3

(NOT TO SCALE)

Maintenance

13. Please call O'Reilly Oakstown when moving in or when the system has been connected. Our technician will carry out a site visit to ensure the system has been wired, switched on and the risers are above the surrounding topsoil. A technician will visit the site to carry out a full service towards the end of the first year.

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PIA
Institute for Wastewater Technology

PERFORMANCE RESULTS

O'Reilly Oakstown Environmental
Oakstown, Trim, Co. Meath, Ireland

EN 12566-3 Annex A, B, C
"Small wastewater treatment systems for up to 50 PT"

Small wastewater treatment system Oakstown BAF System
submerged aerated fixed film bioreactor

Nominal organic daily load	0.38	kg/d	
Nominal hydraulic daily load	1.20	m³/d	
Material	steel reinforced concrete		
Watertightness	pass		
Crushing resistance	pass		
Treatment efficiency (nominal sequences)		Efficiency	Effluent
	COD	93.0 %	46 mg/l
	BOD_5	97.5 %	8 mg/l
	NH_4-N	61.0 %	13 mg/l
	SS	96.7 %	12 mg/l
Electrical consumption	2.0	kWh/d	

Performance tested by:

PIA - Prüfinstitut für Abwassertechnik GmbH
(PIA GmbH)
Hergenrather Weg 30
D-52074 Aachen

Certified according to ISO 9001:2000

Notified Body number: 1739

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

Prüfinstitut für Abwassertechnik GmbH
geprüft - tested - testé

Elmar Lancé October 2011

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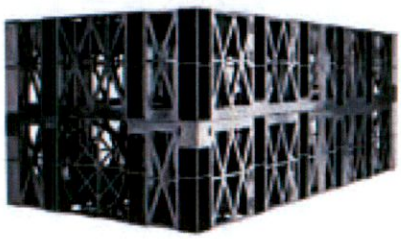
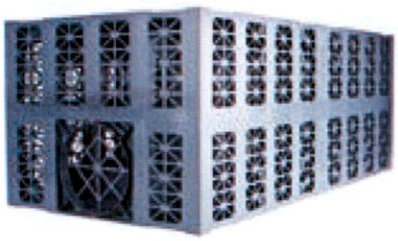
CONNECT TO BETTER

AquaCell Eco



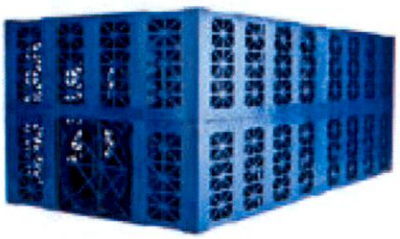
Eco is manufactured from specially reformulated, recycled material and has been designed for shallow, non-trafficked, landscape applications.

AquaCell Prime



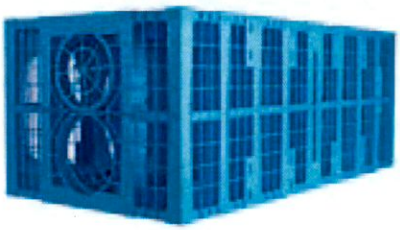
Prime is the latest addition to the AquaCell range, manufactured from specially reformulated, recycled material. It is ideal for use in both shallow and deep applications, subject to either regular traffic loading – such as car parks (for vehicles up to 12 tonnes) – or for landscaped areas.

AquaCell Core



Core has been designed for use in deep applications, subject to both regular and heavy traffic loadings, such as cars and HGV's (for vehicles up to 44 tonnes).

AquaCell Plus



Plus has been designed primarily for use in applications where inspectability is required, and is suitable for use in all applications from landscaped areas to heavily trafficked areas (for vehicles up to 44 tonnes).

Optimise tank and soakaway designs with the AquaCell Configurator Tool

The AquaCell configurator tool aids and speeds the efficient design of stormwater tank or soakaway solutions. The tool guides users through a step-by-step specification process and, based on responses, will recommend the optimum design, based on the loadings, depths and site conditions of each project. The tool generates a PDF of the design for easy download and can store the data online for future reference. To start using the tool or to learn more visit: **myportal.wavin.co.uk/tools**