FOUL DRAINAGE DETAIL CONDITION 7

Date: 24th October 2023

Planning Reference: DC/23/02725

Prepared by: C&K Smith Ltd in conjunction with JRF Developments

7. ACTION REQUIRED PRIOR TO FIRST OCCUPATION: FOUL DRAINAGE DETAIL

The new dwelling hereby approved shall not be occupied until precise details of the foul drainage scheme, to serve the development hereby approved, have been submitted to, and approved in writing by, the Local Planning Authority. Where Package treatment plants are proposed, the applicant must provide confirmation, in writing, detailing how the proposal will meet the requirements of the updated General Binding Rule: General binding rules: small sewage discharge to surface water – GOV.UK

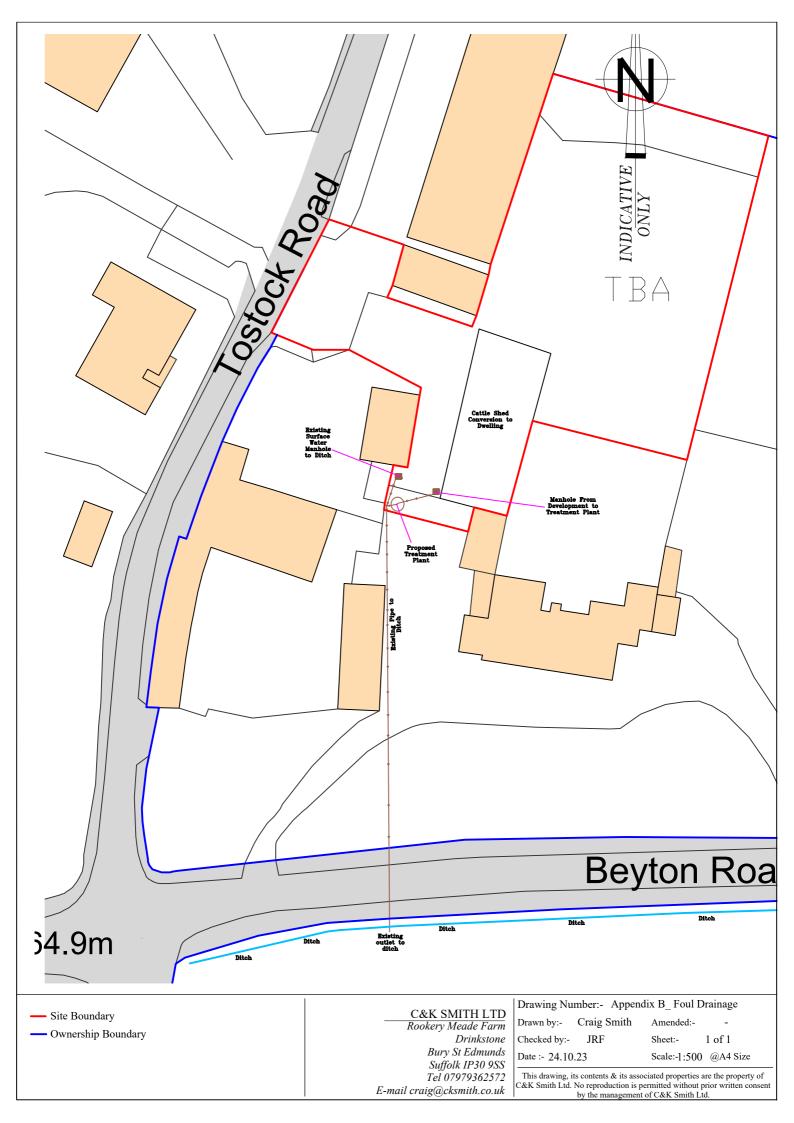
INTRODUCTION

Homeowners are responsible for their choice, installation and maintenance of their wastewater system under a new code of practice introduced by the Environment Agency. They have a legal responsibility to minimise the impact of their sewage waste if they manage it within the bounds of their property e.g., with a septic tank or sewage treatment plant (Binding Rules - England, DEFRA, January 2015)

PROPOSED FOUL DRAINAGE DETAILS

In order to conform to current General binding legislation, it is proposed that all foul sewerage from the proposed dwelling is discharged to a Klargester BioDisc Domestic Sewage Treatment Plant (See appendix A) which produces a clear overflow that is environmentally and suitable for discharge.

Appendix B shows the proposed layout onsite.



Water Management Solutions



Klargester BioDisc® BA-BE Sewage Treatment Plant





kingspan.co.uk/klargester

Klargester BioDisc[®] Domestic Sewage Treatment Plant

Support from start to finish from our expert team





Free survey

Contact us and we'll arrange for a local Kingspan Klargester expert to visit your home for a full site assessment, should you need it.



Step 2

Choice

Our professional team will work with you to help choose the correct BioDisc model.



Step 3

Set up

We offer full commissioning and activation for your BioDisc, ensuring it runs optimally right from the start,



Step 4

Service

We offer tailored service and maintenance packages for your BioDisc treatment plant.

1400mm*

 * Dimensions illustrated here are applicable to the BA and BB models only.

1995mm^{*}

Choosing the right sewage treatment plant for your home with Kingspan Klargester

I'm a homeowner - what do I need to consider before choosing my treatment plant? Kingspan Klargester provides relevant advice and support throughout the wastewater treatment purchasing process based on our in-depth local knowledge and expertise. We offer comprehensive free site visits, professional installation options (optional extra) and expert aftersales care through our national network of accredited installers and engineers.

The Kingspan Klargester BioDisc sewage treatment system is available to suit all types of domestic applications, catering for single and multi-house properties. BioDisc is engineered to treat wastewater to a very high standard and offers affordable lifetime costs compared to other treatment processes.

Product benefits

BioDisc is 100% compliant with European standard EN 12566-3

Our team will guide you through:

- Size of treatment plant required
- Ground conditions around the plant
- Wastewater discharge options
- Invert level options

Why BioDisc[®]?

With strict Environment Agency standards, it's more important than ever to choose a sewage treatment plant that delivers peace of mind with reliable treatment of wastewater.

The Kingspan Klargester BioDisc is built on the back of 65 years' experience and offers the following benefits:





kingspan.co.uk/klargesterguarantee to arrange your service and enjoy an extended seven year guarantee period.** ** For BA and BB BioDisc models only, when registered online - terms and conditions apply. Visit: https://www.kingspan.com/gb/en-gb/products/wastewater-management/warranty-terms

How it works



Primary settlement tank

Wastewater and sewage flows into the primary settlement tank where the large solids are retained for future removal.



First stage biological treatment

The liquor and fine solids then flow into the Biological Treatment Zone 1 where the first stage of treatment occurs.

Second stage biological treatment

The liquor is then fed forward at a controlled rate into Biological Treatment Zone 2 for further treatment.



Final settlement tank

The clean liquid passes into the final settlement tank where it can be discharged to ground or water course.



Control panel and beacon featuring alarm* and digital display to signal that your system is working optimally (beacon and

SmartServ Pro

Ask us about our SmartServ Pro remote lets you know when your system needs serviced, giving you peace of mind. helpingyou@kingspan.com

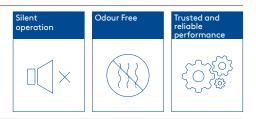


Integrated Pump System also available (for pumped systems only). Our technical team will guide you through the best

Book your free site visit from our expert Klargester team at klargester@kingspan.com or visit kingspan.co.uk/klargester







Technical Specifications

Model Reference	BA	BAX	BB	BC	BD	BE
Population Equivalent	8	12	16	24	33	47
Maximum Daily BOD5 (g BOD5)	360	540	720	1080	1500	2100
Maximum Daily Flow (m3)	1.2	1.8	2.4	3.6	5	7
Maximum Daily Ammonia (g NH4)	48	72	96	144	200	280
Overall Diameter (mm)	1995	1995	1995	2450	2450	2450
Length (mm)	N/A	N/A	N/A	N/A	3340	3340
Inlet Invert depth (mm)	450/750/1250	450/750/1250	450/750/1250	600/1100	600/1100	600/1100
Depth Below Inlet Invert (mm)	1400	1400	1400	1400	1820	1820
Outlet Invert Depth (mm)	1315	1315	1315	1735	1735	1735
Overall Height (mm)	2160/2460/2960	2160/2460/2960	2160/2460/2960	2825/3325	2825/3325	2825/3325
Height to Rim of Cover (mm)	1945/2245/2745	1945/2245/2745	1945/2245/2745	2485/2985	2485/2985	2485/2985
Empty Weight (kg)	310/325/380	335/350/405	335/350/405	650/750	1100/1200	1200/1300
Standard Power Supply	1 phase	1 phase	1 phase	1 phase	1 phase	1 phase
Motor Rating – Single Phase (Watts)	60	60	60	173	253	253
Full Load Current - Single Phase (amps)	0	0	0	1	1	1
Optional Power Supply	N/A	N/A	N/A	3 phase	3 phase	3 phase
Motor Rating – 3 Phase (Watts)	N/A	N/A	N/A	90	90	90
Full Load Current - 3 Phase (amps)	N/A	N/A	N/A	0.38	0.38	0.38
Sludge Return Pump Rating (Watts)	250	250	250	250	250	250

Invert level options

Three standard drain invert level options are available from stock to match the site topography and where applicable, minimise the excavation depth. The BA, BB and BA-X models are available with an integral pump to move the effluent from the point of treatment, if site level demands.

Environment Agency regulations

As an off-mains homeowner, you must comply with the General Binding Rules by ensuring your treatment system is maintained properly and does not cause pollution. These rules state that you must arrange regular maintenance for your system, via a trusted service provider. Kingspan Service can help with expert servicing and alarm packages – email helpingyou@kingspan.com

Protect your investment with our Service and Maintenance Plans We recommend that you service your BioDisc sewage treatment plant **once a year**. Under Environment Agency regulations, it's now your responsibility to ensure smooth running of your plant.

Our in house Service department offer a range of service packages

including Gold, Silver and Bronze to cater for all homeowners' needs.

To find out more about how you could benefit from a tailored service package from Kingspan, call us on **0333 240 6868** or email **helpingyou@kingspan.com**

For further technical information & videos on the BioDisc treatment plant visit our website atkingspan.co.uk/klargester

Contact Details

UK

Kingspan Water & Energy Ltd. College Road North Aston Clinton | Aylesbury Buckinghamshire | HP22 5EW

T: +44 (0) 1296 633 000 F: +44 (0) 1296 633 001

E: klargester@kingspan.com www.kingspan.co.uk/klargester

Kingspan Water & Energy Ltd.

Service Office Details: 180 Gilford Road Portadown BT63 5LF T: NI: 028 3836 4600 | ROI: 0818 543 500 E: helpingyou@kingspan.com www.kingspanservice.com

We take every care to ensure that the information in this document is accurate at the point of publication. Specification may vary (within a small parameter) due to manufacturing process variations or environmental conditions. All images are for illustration purposes only and should not be taken as binding. The actual product may vary, and specification/dimensions/colour/other attributes may differ. To ensure you are viewing the most recent and accurate product information, please visit this link:

Io ensure you are viewing the most recent and accurate product information, please visit this link: https://www.kingspan.com/gb/en-gb/products/water-management/domestic-sewage-treatment-plants/ klaraester-bioldisc-domestic-sewage-treatment-plant

klargester-biodisc-domestic-sewage-treatment-plant ©Kingspan and the Lian Device are Registered Trademarks of the Kingspan Group in the UK, Ireland and other countries. All rights reserved. Registered in Country No.NI017631. Registered Office: 180 Gilford Road, Portadown, Co. Armagh, BT635LF. VAT GB412 5124 03

