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klargester@kingspan.com
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Septic Tanks

FOR THE COLLECTION AND SETTLEMENT OF DOMESTIC SEWAGE

A septic tank provides a traditional solution to sewage disposal needs for domestic dwellings without access to mains drainage.

Sewage enters the septic tank into a settlement chamber, allowing solid waste (sludge) to sink and liquid to rise to the surface. This surface liquid makes contact with oxygen and the organic matter starts to breakdown biologically.

This liquid still contains sewage but in small enough particles to be carried through the discharge outlet and into the ground (soakaway).



WHY DO I NEED A SEPTIC TANK?

Basic septic tanks only partially treat sewage and discharge effluent of low quality. Many authorities in the UK prohibit their use.

In all instances a Sewage Treatment Plant should be considered as the first option.

Septic tanks may be installed, subject to consent, in applications where:

- Soil is of suitable porosity.
- Installation complies with Building Regulations (Approved Document H).
- The installation will not contaminate any ditch, stream or other watercourse.

WHAT PRODUCTS ARE AVAILABLE?

If you are not connected to mains drainage you have three options:

- The Kingspan Klargester Alpha range of septic tanks only provides settlement for sewage solids. The liquid overflow requires further biological treatment in a suitably designed, correctly situated drainage field.
- The Kingspan Klargester Gamma and Sigma shallow dig septic tanks will drastically reduce the time and cost of a septic tank installation.
- A full sewage treatment plant with integral biological treatment technology produces far superior treated effluent see the Kingspan Klargester BioDisc®, Biotec™, Bioficient ranges.

Any product installation is dependent on obtaining regulatory approvals.

Get in touch for a FREE professional site visit and a representative will contact you within 5 working days to arrange a visit.

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SOIL POROSITY

To establish the overall length of a drain run needed, a soil porosity test is required. The following procedure should be adopted:

- Excavate a hole 300mm square by 300mm deep below the proposed invert level of the land drain.
- Fill hole with water to a depth of 300mm and allow to drain away overnight.
- Refill to a depth of 300mm and observe the time taken to drain from 75% full to 25% full level (i.e a depth of 150mm). Divide this time by 150mm. The answer gives the average time in seconds (Vp) required for the water to drop 1mm.

Repeat this exercise two more times with at least two trial holes. Calculate the average time.

Drainage field disposal should only be used on test values (Vp) between 15 and 100. Where a Vp value falls outside these limits, our technical team can advise.

For detailed calculations of the drainage field, please contact the Kingspan Klargester technical sales team on 01296 633000 or email info@klargester.com.







The **Sigma** shallow dig septic tank is available in various sizes suitable for properties with dig height restrictions.

MODEL REFERENCE	CAPACITY (litres)	No. PEOPLE (1501/head/day)	DIAMETER (mm)	LENGTH (mm)	STANDARD INVERT HEIGHT (mm)
STH028	2800	5	1225	2955	500
STH038	3800	12	1225	3895	500
STH057	5700	24	1425	4275	500
STH071	7150	34	1920	3225	500
STH091	9150	47	1920	3960	500

- Robust and simple to install
- Less excavation costs, less soil disposal and less backfill material
- Made from composite GRP strong, light, chemically resistant and watertight
- EN-12566 Part 1 approved and 99.7% efficient



Gamma Septic Tank is a reliable and efficient septic tank suitable for shallow dig applications.

MODEL REFERENCE	CAPACITY (litres)	STANDARD OVERALL HEIGHT (MM)	STANDARD INLET INVERT (MM)	STANDARD OUTLET INVERT (MM)	LENGTH (MM)	WIDTH (MM)
GST027	2700	1755 - 2255	500 - 1000	550 - 1050	2480	1130
GST040	4000	1755 - 2255	500 - 1000	550 - 1050	3360	1215

- Shallow dig the Gamma is designed with easy, affordable installation in mind.
- Costly excavation and soil disposal isn't necessary, nor is additional concrete backfill.
- 99.97% removal efficiency
- The Gamma is made from durable MDPE. This allows the gamma tank to be lightweight, long lasting, and damage resistant.
- Full compliance with European Union EN 12566 part 1 standards.

ALPHA GRP SEPTIC TANK

The **Alpha** septic tank comes in three sizes and is suitable for individual domestic dwellings up to a large family house.

CAPACITY (litres)	No. PEOPLE (1501/head/day)	WIDTH (mm)	INLET LEVEL TO BASE (mm)
2800	5	1905	1565
3800	12	2070	1795
4600	17	2080	2035

- Performance tested to EN-12566 (Part 1) requirements
- Internal baffle design within the tank aids separation and retention of solids, improving the effluent quality thus providing a long life to the soakaway
- Made from composite GRP strong, light, chemically resistant and watertight





ALPHA SEPTIC TANK

PROFESSIONAL INSTALLERS

Kingspan Klargester Accredited Installers

Experience shows that correct installation is a prerequisite for the long-lasting and successful operation of any wastewater treatment product. This is why using an installer with the experience and expertise to install your product is highly recommended.



Services include:

- Site survey to establish ground conditions and soil types
- Advice on system design and product selection
- Assistance on gaining environmental consents and building approvals
- Tank and drainage system installation
- Connection to discharge point and electrical networks
- Waste emptying and disposal

Contact us for further details.



CARE & MAINTENANCE

Kingspan Environmental Services

Who better to look after your treatment plant than the people who designed and built it?

Kingspan Environmental have a dedicated service division providing maintenance for wastewater products.

Factory trained engineers are available for site visits as part of a planned maintenance contract or on a one-off call out basis.

To find out more about protecting your investment and ensuring peace of mind, call us on:

NI: 0844 846 0500 ROI: 048 3025 4077

or visit us online:

www.kingspanenvservice.com





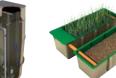


BIODISC® DOMESTIC SEWAGE TREATMENT PLANTS





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INTEGRATED RAINWATER HARVESTING SYSTEMS

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