
Foul Drainage Specification

**Land at Tyn Twll
Llanarmon DC
Llangollen
LL20 7LH**

**Outline Planning Application for
the siting of a Rural Enterprise
Dwelling with vehicular access,
parking, landscaping and all
associated works**

RW & JL Edwards

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Introduction

This Foul Drainage Specification has been prepared and submitted in support of outline planning application reference P/2023/0583, for the erection of a new rural enterprise dwelling with vehicular access, parking, landscaping and all associated works on land at Tyn Twll, Llanarmon Dyffryn Ceiriog, Llangollen, LL20 7LH.

This specification has been prepared following the consultation response received from the Local Authority's Building Control Team during the course of the application.

Package Treatment Plant

It is proposed to install a Klargester Biotec 1 Package Treatment Plant to serve the proposed dwelling; details of which are below:

KLARGESTER BIOTEC 1 - 6 PERSON SEWAGE TREATMENT PLANT, GRAVITY DISCHARGE



Specification	Delivery	Returns Information
Product Specification		
Product Code:	KLA	
Customer Offloading:	Customer Offloading	
Free Delivery:	Free Delivery	
Free Site Survey:	Free Site Survey	
HIAB Available:	HIAB Available	
Tank Use:	Below Ground, Sewage	
Warranty:	Klargester 2 years	

The Klargester BioTec is the economical off-mains solution for single houses and uses the tried and tested aerobic biological process for the treatment of domestic sewage. Klargester BioTec sewage treatment systems are ideal for single/multiple houses and employ the well proven aerobic biological trickling filter process for the treatment of sewage. The system is easy to install, and is suitable for a dwelling with an occupation of six persons.

Drainage Field

The package treatment plant would discharge wastewater to ground via a new drainage field constructed on-site. Soil percolation tests have been undertaken and the results already submitted as part of the planning application for the review of the Local Planning Authority and any relevant consultees. These results confirm the ground conditions on-

site would support a drainage field in this location, as well as advising the necessary size of the drainage field required.

The drainage field would be constructed and built in accordance with the requirements of BS 6297:2007+A1:2008. The system would also be constructed in-line with Approved Document H 2010 (Wales), Section H2 of the Building Regulations.

The drainage field would be constructed in excess of 15m from the proposed dwelling, 10m from any watercourse and 50m from any well or borehole. The system would also avoid any trees or tree roots.

The drainage field will be very carefully constructed using 110mm downward facing perforated pipes laid in trenches with a uniform gradient not steeper than 1:200. The trenches will be between 300mm and 900mm wide and minimum 1m wide strips of undisturbed ground shall be maintained between parallel trenches. The pipes shall be laid on a 200- 300mm layer of clean gravel granular fill material graded either 16-32mm or 20-50mm. The trenches shall be filled with the same material to a level 50mm above the pipe and covered with geotextile material to prevent the entry of silt. The remainder of the trench can be filled with normal soil. Pipes will be laid at a minimum depth of 200mm below the surface.

The system will be installed by a building contractor with experience of installing package treatment plants and drainage fields.