

Foul Drainage Statement – Proposed Use of Tricel Vento Septic Tank

1. Introduction

This foul drainage statement supports the planning application for two residential static caravans. Foul wastewater will be managed via a Tricel Vento septic tank, a certified and widely used system suitable for small residential developments. The installation complies with the General Binding Rules, BS EN 12566-1, and standard drainage field design principles.

2. Proposed System

The development will utilise a Tricel Vento septic tank, selected for its shallow-dig profile, lightweight polyethylene construction, durability, and compliance with EN 12566-1. The Vento range is designed for dwellings of 6–20 persons in a single-tank format, making it suitable for two residential caravans with an expected occupancy of 4–8 PE.

3. Selected Model and Technical Specification

The proposed installation will use either the Tricel Vento 12 (4,000 litres) or the Vento 20 (5,000 litres), depending on final occupancy confirmation. Both models fall within the appropriate capacity range for two residential caravans.

Tricel Vento 12 – Technical Data

Capacity: 4,000 litres Length: 2,040 mm Width: 1,850 mm Height: 1,540 mm Inlet invert: 1,220 mm

Tricel Vento 20 – Technical Data

Capacity: 5,000 litres Length: 2,430 mm Width: 1,850 mm Height: 1,540 mm Inlet invert: 1,220 mm

The tank includes an outlet filter to prevent solids entering the drainage field, protecting the system and ensuring compliance with the General Binding Rules.

4. Treatment Process

The Tricel Vento operates as a traditional septic system with enhanced internal flow control. Wastewater enters the tank and solids settle at the base, where anaerobic breakdown occurs. A dip-pipe and filter retain scum and solids within the tank.

5. Flood Zone Considerations

The site lies within Flood Zone 1, where septic tanks are acceptable subject to installation above the seasonal high-water table and anchoring where required. The shallow-dig profile of the Vento reduces excavation depth and improves resilience in areas with variable groundwater levels.

7. Compliance and Certification

The Tricel Vento is fully tested and accredited to EN 12566-1 for septic tanks. It is manufactured to high durability standards and supplied with a 10-year warranty. The system is designed for long-term residential wastewater treatment and meets all relevant UK regulatory requirements.

8. Conclusion

The proposed foul drainage solution, comprising a Tricel Vento septic tank with a drainage field, is appropriate for the scale of development, compliant with UK regulations, suitable for Flood Zone 1, and low-impact in terms of installation and maintenance. It provides a safe, effective, and policy-compliant method of foul drainage for the two residential static caravans.