

Water Tank Installation & Specification Report

1. Introduction

This report outlines the detailed specifications, installation methodology, concrete backfill requirements, water storage capacity, and concrete works for the installation of two Marsh Industries 25,000-litre holding tanks. The information is drawn from manufacturer specifications, installation manuals, and construction calculations.

2. Tank Specification

Manufacturer: Marsh Industries Ltd.

Model: 3.0m Diameter × 4.1m Length Holding Tank

Nominal Capacity: 25,000 litres (25 m³) per tank

Material: GRP (Glass Reinforced Plastic) with ribbed external shell for strength

Access: 600 mm internal diameter access cover

Inlets/Outlets: 110 mm UPVC pipe connections for inlet and vent

Dimensions:

- Overall Diameter (over ribs): ≈ 3.124 m

- Shell Diameter: 3.0 m

- Overall Length (over ribs): ≈ 4.124 m

- Shell Length: 4.1 m

- Depth (base to top of turret): ≈ 3.674 m

Weight: Varies – handled with web straps only

Tolerance: ±2.5% on all dimensions

3. Water Storage Capacity

Per Tank: 25,000 litres (25 m³)

Total for Two Tanks: 50,000 litres (50 m³)

The combined storage capacity exceeds the minimum requirement for holding a minimum of 45,000 litres as per site fire protection specifications.

4. Conclusion

The installation of two Marsh Industries 25,000-litre holding tanks provides a total water storage capacity of 50,000 litres, meeting site requirements for fire suppression storage.