

Comparison Aspect	Damsak® PVC	Steel Tanks	Plastic Tanks	Fiberglass Tanks	Concrete Tanks	Stone Tanks
Durability	High: Polyester-reinforced polyvinyl chloride (PVC) resists puncture and UV rays.	Moderate: Strong steel body, zinc coating adds corrosion resistance.	Moderate: UV-treated polyethylene, degrades after 10-20 years.	Moderate: Resistant to impact & corrosion.	High: Can bear heavy loads and soil pressure.	High: Stone walls are robust.
Convenience (Installation and Use)	High: Easy setup, lightweight, folds flat when empty; no specialised tools needed.	Moderate: Requires level base & bolt up; heavier tools needed, but modular panels simplify assembly.	High: Quick 'drop-in' installation, no welding; lightweight.	High: Modular panels; requires skilled installer for resin work.	Moderate: Requires excavation, formwork and curing time; labour-intensive.	Low: Installation similar to masonry; limited modularity.
Material	Polyester-reinforced polyvinyl chloride (PVC)	Steel	Polyethylene	Fiberglass	Concrete	Stone
Size Ranges	500 litres - 500 000 litres.	7 000 litres to 4.2 million litres (SBS) varies by panel system.	50 litres - 40 000 litres (RotoTanks) Larger units up to 50 000l	110 000 litres + (Custom sizes)	Customisable to requirements	Customisable to requirements
Transportability	High: Can be loaded in a small vehicle when empty, and moved repeatedly.	Low: Panels are heavy; transport requires a truck and a crane.	Low: Easily lifted onto trailers/trucks. Does require large trucks/logistics to move.	Low: Panels are heavy but can be moved with cranes.	Low: Once built, it is immobile.	Low: Permanent structure.
Water Preservation Ability	Excellent: Closed, dark interior prevents algae and evaporation, keeps water clean and safe for drinking.	Good: Closed designs available; metal does not inhibit algae but can be coated to limit growth.	Good: Closed tanks prevent evaporation; UV-stabilised grades limit algae growth.	Good: Closed design prevents algae growth; resin barrier prevents moisture loss.	Excellent: Excellent thermal mass keeps water cool; sealed liners stop algae.	Excellent: Good thermal regulation; closed lining reduces algae.
Maintenance	Low: Visual checks only.	Low to moderate: Zinc coating limits rust; periodic inspection needed.	Low: Visual inspection and occasional cleaning.	Low to moderate: Resin checks needed.	High: Crack monitoring and waterproofing repairs.	High: Difficult to clean & repair.
Price Point	Low to moderate: Cheaper than steel & concrete.	Moderate to high: Higher than PVC.	Low: Cheapest option.	High: More expensive than polymer.	High: Material and labour cost.	High: Civil work/project.