DAMSAK®, COMPARED TO TRADITIONAL WATER RESERVOIRS.

Comparison Aspect	Damsak® PVC	Steel Tanks	Plastic Tanks	Fiberglass Tanks	Concrete 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 polyethelene, degrades after 10-20 years.	**Moderate:** Resistant to impact & corrosion.	**High:** Can bear heavy loads and soil pressure.
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.
Material	**Polyester-reinforced polyvinyl chloride (PVC)**	**Steel**	**Polyethylene**	**Fiberglass**	**Concrete**
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
Transport-ability	**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.
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.
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.