

Technical Specification

UR3D512 Water Tank

General

Diameter	512"
Shell height	87"
Overall height	100"
Nominal Volume	77,500 Gallons

Tank Structure

Tank Shell

23 gauge corrugated steel panels with G145 galvanized coating

Mechanically galvanized high tensile fasteners

Roof Structure

Welded square HSS support frame with hot dipped galvanized coating

26 gauge corrugated steel cover sheeting

Tank Liner

Liner Material

20mil polyethylene geomembrane
700% elongation at break ASTM D638
2,000min HPOIT ASTM D5885
Mechanically fastened at 80" centers
NSF 61 certified for potable water use

Cushion Layer

Needle free non-woven polyester geotextile underlay

Warranty

20 year "No Leaks" pro rata warranty in accordance with standard terms and conditions

Fittings

Inlet

Either a 20" roof inlet basket with UV guard or a 2" GFN bulkhead inlet in the wall.

Outlet

2" GFN bulkhead with Ni coated ball valve, schedule 40 PVC connection

Drain

2" GFN bulkhead with Ni coated ball valve, schedule 40 PVC connection

Overflow

6" ASA overflow with internal vertical orifice and PVC overflow pipework to ground with flap valve and mosquito screening

Accessories

Access

30" lockable hinged roof access hatch
Light duty removeable galvanized steel ladder

Level Monitoring

Mechanical level indicator

Miscellaneous

Foam roof seal for dust and vermin protection

Environmental Design Parameters

Design Loads:	ASCE 7-10
Wind	105mph
Seismic	Zone A
Snow	5psf
Steelwork:	AISC 360-10