

# Technical Specification

## UR3D409 Water Tank

### General

Diameter	409"
Shell height	87"
Overall height	101"
Nominal Volume	49,600 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	120mph
Seismic	Zone A
Snow	10psf
Steelwork:	AISC 360-10