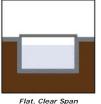
# XL6 Tank Cover System

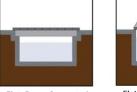
## System Overview

Designed with the needs of plant operators and installing contractors in mind, the features and benefits of the XL6 tank cover system are numerous and include effective odor control, easy-to-remove sections, longspan deck panels offering foot traffic safety, plus low profile advantage.

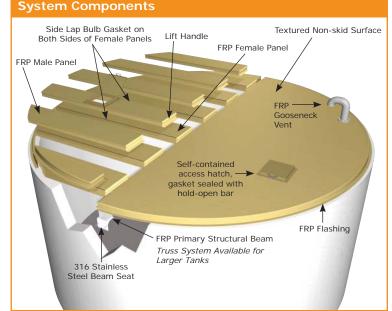
The XL6 flexible design is suitable for large rectangular or round basins and can be top-mounted on or flush with tank walls.

Configurations available for the XL6 tank cover:





Flat, Beam-Supported Flat, Truss-Supported



## Key XL6 Features & Benefits



Gaskets at outer edges & panel joints control odors.



Internesting XL6 panels are easy to remove & lift vertically



Shop-fabricated panels include notched openings & self-contained acess hatches

#### Best Odor Control

XL6 cover systems are effectively sealed with gaskets located at all outer edges, panel side laps and access hatches.

#### Complete Removability & Accessibility

Able to be handled by two workers without lifting equipment, each XL6 male panel can be removed individually after removing only four nuts, and each XL6 female panel can be freely lifted after removing its two adjacent male panels. In addition, XL6 access hatches are self-contained within one panel, allowing panel removal without affecting adjacent panels.

### Long Span Capability

The XL6 system clears spans up to 20'. For longer span requirements, FRP beams and columns or steel truss members are utilized to support XL6 deck panels.

#### Easy, Low-cost Installation

Factory-fabricated deck panels are simply laid in place and require only half of the cover panels to be fastened to supports.

- Corrosion Resistant
- High Strength
- Lightweight
- > UV Protection
- Turn Key Solutions
- Customized System
- Non-skid Surface
- Low Profile

# **XL6 Tank Cover System**

## **Applications**

- Headworks & Grit Covers
- Clarifiers
- > Aeration & Equalization
- Sedimentation
- Sludge & Gravity Thickeners
- Chlorine Contact Basins
- Filtrate Storage Tanks
- Chemical Process Tanks



XL6 truss-supported tank cover system with FRP access hatches and safety grating 88' Diameter Gravity Thickener



XL6 clear span tank cover with access hatches & vents 40' Diameter Sludge Thickener Cover



*XL6 beam-supported tank cover system* 50' Diameter Clarifier



XL6 clear span tank cover system with access hatches UV Disinfection Process



XL6 beam-supported cover - DAF cells. Cover panels can be handled by 2 workers alone.



XL6 clear span cover - Chemical Treatment Tank Self-contained hatches permit easy panel removal.





XL6 clear span tank cover system with angle cut panels and access hatches over filtrate storage tanks



XL6 beam supported covers with access hatches 53' x 60' Pre-treatment Tank Complex



# XL6 Tank Cover System

## Load Span Table

Maximum Allowable Load - Safety Factor = 2.5 Uniform Concentrated Span Live or Snow Load\* L/D = 120L/D = 180L/D = 18020 ft. 778 lbs. 32 psf 26 psf 18 ft. 39 psf 36 psf 887 lbs. 998 lbs. 16 ft. 50 psf 50 psf 14 ft. 65 psf 65 psf 1141 lbs. 12 ft. 89 psf 1331 lbs. 89 psf



XL6 strength demonstration: Under a uniform load of 30 psf, deflection on a 20' span is L/180.

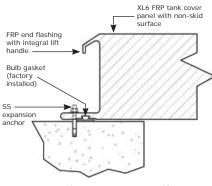
Bulb gasket

(factory

installed)

Concentrated load distributed over 1' x 2' area.

## Typical Details



Concrete Wall

### SS ledger angle

SS bolt with

threaded insert

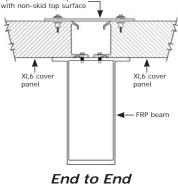
SS expansion anchor

FRP flatsheet SS grommet

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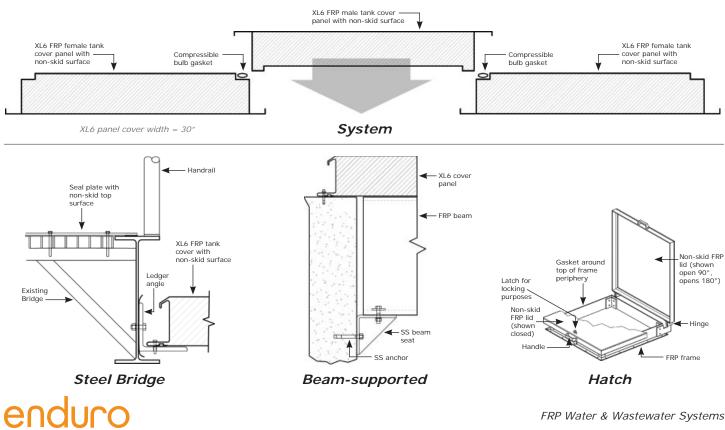
SS expansion

anchor



Optional FRP cover plate

### Flush Concrete Wall



FRP Water & Wastewater Systems