

PROJECT PROFILE

A Superior Composites Solution for Water and Wastewater Needs

LOVE'S TRAVEL STOP, OREGON

Fiberglass Utility Buildings Loaded with Features



This DuraFiber utility building at the Love's Travel Stop is made of a fiber-reinforced polymer that's superior for many commercial applications. Vacuum-infusion molding makes the building exceptionally strong.

that provides water for all of the 11,000-ft² (1,022-m²) facility's needs, including food preparation, showers, bathrooms, outside irrigation, and fire hydrants.

Orenco Composites™ manufactured the two-room, fiberglass-reinforced DuraFiber building that serves as a water utility building and houses the system's booster pumps. One room serves as a control room, while the other contains most of the pumps and piping. Each room has its own exterior door. The building features pump controls, interior and exterior lighting, heating, ventilation, and air conditioning. It also has a hatch on the roof to allow for pump removal. The walls and roof were integrally molded using a vacuum-infusion process, which adds to the strength of the building. It measures 24 feet long, 12 feet wide, and 8 feet high (7.3 meters by 3.7 meters by 2.4 meters).

Fextex Systems, an Orenco representative, provided the 20-gpm (1.3-L/sec) booster pump. The pump system



The travel stop also has a larger DuraFiber building that houses pumping equipment and chemicals for the wastewater system. Like the water utility building, it came with interior and exterior lighting, heating, ventilation, and air conditioning.

In June of 2016, a new Love's Travel Stop opened in Boardman, Oregon, offering professional truck drivers and other travelers 24-hour access to clean, safe places to buy gas, diesel fuel, travel items, meals, and snacks. An essential part of this particular Travel Stop is the private well

Water & Wastewater Market

PROJECT OVERVIEW

BOARDMAN, OREGON



Water Utility Building

- 24 ft long, 12 ft wide, 8 ft high (7.3 m x 3.7 m x 2.4 m)
- Vacuum-infused fiberglass structure
- Shelters pump controls, pumps, and pipes

Features

- Two rooms, two exterior doors
- Interior and exterior lighting
- Heating, air conditioning
- Ventilation
- Roof hatch (for pump removal)
- Pump control panels

Wastewater Utility Building

- 35 ft long, 16 ft wide, 8½ ft high (10.7 m x 4.9 m x 2.6 m)
- Vacuum-infused fiberglass structure
- Shelters pump equipment and chemical additives

Features

- Two rooms, one regular exterior door
- Two overhead doors (one interior, one exterior)
- Interior and exterior lighting
- Heating, air conditioning
- Ventilation

Installation Date

- January 2016

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includes a flow meter, a chemical-feed system to chlorinate the water, and a 107,000-gallon (405-m³) storage tank. Fextex also supplied the four Orenco AdvanTex® AX-Max™ units, which provide advanced wastewater treatment for the travel stop.

The two-room wastewater utility building is also DuraFiber. One room contains the pumping equipment, while the other is used for chemical storage. The building measures 35 feet long, 16 feet wide, and 8½ feet high (10.7 meters by 4.9 meters by 2.6 meters). Like the water utility building, it came with interior and exterior lighting, heating, ventilation, and air conditioning. It has one regular exterior door, along with two overhead doors (one exterior and one interior).

Orenco Composites is a division of Orenco Systems, a wastewater equipment manufacturer whose products and technologies have been installed in more than 70 countries around the world. "Fextex was pleased to supply Orenco wastewater equipment for the Love's project because of Orenco's great reputation for quality products and service," said Bob Nation, President of Fextex Systems. "We were also pleased that Love's chose Orenco Composites' DuraFiber utility buildings to house both the water and the wastewater controls. The specifying engineer was particularly impressed that these buildings came complete with so many options, including electrical and control panels, heating, cooling, lighting, and ventilation systems."

The DuraFiber brand provides high-quality buildings to many different industries, including water and wastewater, telecommunications, power utilities, and transportation. The buildings are corrosion resistant, UV resistant, and impact resistant. And they won't rot or rust, since no wood or steel is used in their construction.

All DuraFiber buildings are vacuum-infusion molded using high-strength fiberglass fabrics, a high-tech process commonly used to produce yachts and aerospace parts. The standard, 3-inch (76-mm) foam-core fiberglass walls and roof provide structural integrity, while keeping the interior warm with R-18 insulation. The exterior surface is protected with a high-performance epoxy primer and urethane paint, which is superior to standard gelcoats.

Orenco Composites buildings are designed to withstand up to 160 mph (258 km/h) winds and support up to a 100-lb/ft² (4.8-kPa) live load. In addition, they can be manufactured and delivered as a complete, turn-key solution for a variety of job sites. That means a project can be operational just hours after setting the prefab building in place.

Each building comes with a 10-year limited warranty and offers an array of options, including lighting, electrical outlets, HVAC systems, anti-skid floors, double doors, windows, and interior walls. Applications include lift stations, motor control centers, generator housing, chemical storage, and more.

All product and performance assertions are based on proper design, installation, operation, and maintenance according to Orenco's current published documentation.

Water & Wastewater Market



The wastewater building features two regular doors, as well as two overhead doors (one inside and one outside).



The two-room water utility building houses the water system's booster pumps. It has a custom hatch on the roof for easier pump removal.

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- Bob Nation
President of Fextex Systems

For more information, contact Orenco Composites™.



844-795-9568 • +1 541-459-6970

www.orenco.composites.com