

## Project Report

### Blu Water Car Wash

Gambrills, MD, USA

Pre-Engineered Aluminum Enclosures

Architect: Level One Architects  
Contractor: CDP Development



## Testimonial

“[Structures Unlimited] structures are a one-stop shop for well-engineered aluminum frame buildings. Their sales, engineering and building staff went out of their way to make sure the project began on-time, followed progress along the way and were passionate about providing a premium quality finished product.”

Clark Porter, Developer



#### STRUCTURES UNLIMITED SPECS:

Pre-Engineered Aluminum Enclosures

Complex Center Ridge Enclosures

Aluminum Box Beam Frame:  
6" x 13" | 152mm x 330mm

Aluminum Finish: #00 White

Size: 25' x 144' | 8m x 44m

#### KALWALL PANEL SPECS:

Panel: 2.75" | 70mm

Grid core: shoji thermally broken

Exterior FRP: white

Interior FRP: white

Panel U-Factor: .23 | 1.31 Wm<sup>2</sup>K

Solar Heat Gain Coefficient: 0.22

Visible Light Transmission: 16%

#### PROJECT CREDITS:

Architect: Level One Architects

Contractor: CDP Development

#### WHY STRUCTURES UNLIMITED?

Single source turnkey solutions include:

Technical sales consultations

Estimating + budgeting services

Daylight modeling services

Design + engineering services

Drafting + modeling

Project management

Precision fabrication

Professional installation

## Blu Water Car Wash, Gambrills, MD, USA

### FRESH CONCEPT MEETS CLEAN DESIGN

Not every car wash is the same. The owner and developer of the Blu Water Car Wash in Maryland had a concept for a system that was more efficient, effective and a better overall experience for the user. He just needed an experienced partner to help make the concept a reality. Structures Unlimited, Inc. proved to be the perfect partner with a turnkey solution.

The new concept hinged on a tunnel that is approximately 30' (9m) longer than typical car wash buildings. This accommodates secondary and tertiary drying of the vehicles to provide better, streak-free results and reduced labor costs for the business.

The developer, Clark Porter, needed a vendor who could work with him and the architect to design, manufacture and install a complex, center ridge enclosure and two support structures for the new facility. After initial discussions, a factory tour was organized to meet the Structures Unlimited, Inc. team and showcase our award-winning capabilities available for this unique project. The recent addition of our 3rd Emmegi, 20-meter bed, 5-axis CNC machining center was key to success.

Structures Unlimited provided a modern, rigid frame building system, featuring corrosion resistant pre-engineered structural aluminum framework with Kalwall translucent roof and wall panels.

One concern about the 50% longer car wash tunnel was that it could exacerbate the feeling of being closed in as vehicles pass through. Museum-quality-daylighting™ delivered by the Kalwall panels alleviates this concern by creating a bright, welcoming environment within the car wash. Car wash tunnels are filled with equipment such as rotating brushes, product dispensing gantries and air-drying nozzles. The glare-free daylight also allows for a more productive maintenance environment for workers. The panels themselves are durable and self-cleaning, meaning normal rain helps keep the roof and walls free of sediment.

The three, factory-finished buildings were delivered on time and field installed by Structures Unlimited's in-house installation team. By providing total responsibility throughout the project, Structures Unlimited brought cost savings and peace of mind for the rest of the team.

Clark Porter said "[Structures Unlimited] structures are a one-stop shop for well-engineered aluminum frame buildings. Their sales, engineering and building staff went out of their way to make sure the project began on-time, followed progress along the way and were passionate about providing a premium quality finished product." Porter will not hesitate to use Structures Unlimited again on upcoming projects.

Structures Unlimited, Inc. has over 50 years of experience of designing large span pre-engineered aluminum structural systems for swimming pool enclosures, skylights and municipal wastewater applications. This unique car wash facility benefits from our unique expertise in providing pre-engineered aluminum structural systems for humid and corrosion prone environments.



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Structures Unlimited, Inc. | 166 River Road | Bow, NH 03304 USA | 800.225.3895 | +1.603.645.6539 | StructuresUnlimitedInc.com

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