

## Professor Zinc Says, “Light to medium wet storage stain will be gone with the wind.”

**Q. There appears to be white rust on some of the galvanized steel stored at our job site. Is this a problem?**

A. The short answer is "Probably not, unless it is severe." Hot dip galvanized steel is carefully scrutinized during the inspection process for any issue that might indicate a problem with coating thickness. If your steel was galvanized at Galvan Industries, it passed inspection before it shipped. We guarantee our work to meet ASTM A123 specifications.

The surface condition known as wet storage stain, often referred to as white rust, is not uncommon after galvanizing. Wet storage stain is a visible formation of zinc oxide and zinc hydroxide on the surface of the galvanized steel.

You may find wet storage stain on nested or stacked products where moisture gets trapped between the articles restricting adequate airflow, or when galvanized steel is exposed to rain, dew, or high humidity conditions. The hot-dip galvanizing process does not contribute to the formation of wet storage stain. The stain occurs after the coating reacts with the environment, not during the coating process. Wet storage stain is often superficial, even when some chalky, white product is visible on the surface.

## Hot Dip News Spring 2023



Light and medium wet storage stain does not require cleaning and does not effect the service-life of the zinc coating.

It can be installed and allowed to weather naturally. With adequate airflow the stain will be gone with the wind, converted to zinc carbonate as it reacts with carbon dioxide, completing the development of the zinc patina. **There's more! Scan the QR code above or visit <https://galvan-ize.com/knowledge-base/professor-zinc/> to read the complete answer.**



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## Galvan Industries, Inc. Hot Dip News

### Read more:

- *Meet Kristi Wilson, Human Resources Manager*
- *Who works at the carwash? GALVAN!*



## GALVAN WINS 2023 AGA EXCELLENCE AWARD

**Galvan Industries recently received the Excellence in Hot-Dip Galvanizing Award from the American Galvanizers Association (AGA) in the Building & Architecture category for its work on the new Atrium Health parking structure. It is Galvan's 13th win in the nation-wide competition since the AGA began the Excellence Awards in 1995.**

Atrium Health, located in Charlotte, NC, has been expanding its operation since it was founded in 1940, more than 82 years ago. Due to the continuing growth, several parking areas that serve patients and visitors needed to be elevated and changed from smaller parking lots to a much larger parking deck. Galvan Industries provided award-winning hot-dip galvanizing for this major project to add longer service life for the structure, and reduce overall construction costs. **Read more on next page.**





## Galvan provides Atrium Health award-winning service

The Atrium Health campus in Charlotte is a landmark, home to the Levine Cancer Institute, The Sanger Heart and Vascular Institute, The Levine Children's Hospital, and The Neurosciences Institute. The hospital has expanded to 874 beds years and is designated an ACS level 1 trauma center, with a helipad for emergency patients.

In designing the new parking deck, careful consideration was given to building a facility with the longest life possible service life, while providing the most economical solutions for the new construction.

One of the major steel design elements for this project was a special proprietary C Beam. C Beams, also known as cellular beams, are created by cutting a normal structural steel beam down the middle, using both a straight line and a semi-circular pattern. The beam is then separated and offset, and welded back together. This creates a circular pattern of openings through the middle of the beam, resulting in a taller, deeper beam than the original from which it was cut. The voids in the finished beams create significant material cost savings.

The Atrium Health design team chose hot-dip galvanizing by Galvan Industries for all 81 truckloads of steel used in the project for many reasons, including aesthetic

appearance and long, maintenance-free service life.

Galvan's expertise in progressive dipping was also important. Several steel column members, connecting support beams, and most of the cellular beams were more than 62 feet long, requiring progressive dipping in the galvanizing kettle.

Designing the steel in longer lengths reduced the number of steel members required on the project. It also reduced field splices, helping control labor costs.

Galvan helped keep the project on schedule, too. The raw steel was all stored at Galvan, then scheduled for production, galvanized, and loaded for delivery to the job-site, as needed. Keeping all the steel stored and staged at one location facilitated scheduling and transportation – saving time and money.

Galvan's work on the project will also save money in the future thanks to hot dip galvanizing's maintenance-free longevity. These savings over time will allow Atrium Health more opportunities for expansion to benefit the community. **For award-winning service that goes beyond the kettle, call Galvan Industries today.**

## NEW EMPLOYEE SPOTLIGHT:

### Kristi Wilson, Senior Human Resources Manager

Kristi Wilson has overseen the HR Department at Galvan Industries since May 2021. Kristi is a committed and motivated human resource professional with more than 15 years' experience in the field.

Before joining Galvan, Kristi was Human Resources Manager of Operations at Driven Brands Shared Services. There she was responsible for HR functions including onboarding, talent management, employee relations, plus policies and procedures for companies in five different markets and employees in more than 200 locations.

She also spent several years as a Human Resources Manager at retail giant Target, where she led all Human Resource activities for a store with more than 150 employees. She also assisted 11 other stores with HR compliance and talent management, as well as recruiting, hiring and onboarding.

Kristi sees opportunity in Galvan's history of growth and stability.

"Galvan is a growing, family-owned, family-oriented company with a successful history going back more than 60 years" Kristi says. "Our growth creates opportunities for employees, and even though the work in the plant is hard, we approach it as a team. It's part of our company culture. We work together to keep a positive, friendly environment where everyone can succeed."

Laurens Willard, President of Galvan Industries, said, "Kristi Wilson's depth of experience and knowledge in all aspects of human resource management makes her a key member of the Galvan team as we grow into the future."



## Galvan Works at the Carwash!

Car wash water often contains phosphates, detergents, soaps, cleaners, road salts, paint chips, and chemicals that promote rust. Hot-dip galvanizing by Galvan STOPS rust on the steel rails that guide cars through the wash.

**Go rust-free with Galvan!**