

THE GEOSOURCE UPDATE

Geosynthetics | Erosion & Sediment Control | Stormwater Management | Hardscapes

PROJECT HIGHLIGHT

Tensar's InterAx Geogrid Used for Soil Stabilization ASP Enterprises Supplies Subgrade Stabilization Solution

This project site required a geogrid that would help stabilize the subgrade and that could support extreme weight. This site receives 60-80 trucks per day carrying steel coils that weigh 45,000 pounds per load, plus the truck weight. Because of this, they needed to stabilize the ground to support the high flow of traffic with heavy loads to prevent rutting and sinking.

The original design required 2700 lbs/sf for the pavement section with 30" of aggregate. However, the design was switched to 12" of lime stabilized soil, NXF850 grid with 16" of rock on top of the geogrid, and then finished with 10" of concrete (a 5,000 psi mix) with double #4 rebar placed 12" on center.

Tensar NXF850 was selected as the solution for this site because of its strength and performance, which led to a reduced amount of required aggregate. InterAx geogrid is Tensar's highest-performing geogrid, made for high trafficked surfaces or soft subgrades. It has optimized geometry for maximum confinement of granular fill, creating the most efficient stabilized layer. InterAx geogrid has advanced material science to improve compaction and restrict movement over time, retaining the stiffness long term and further enhancing performance.

In the pictures, the InterAx geogrid was covered with granular fill and will be finished with a concrete surface to complete the project. The InterAx will prevent the concrete from crumbling and cracking under the weight of these heavy loads. This site will be able to maintain its structure and function for years to come, even with the extreme weight and high traffic.



PRODUCT PROFILE



Flex MSE Vegetated Wall System

Flex MSE is a cost-effective, sustainable and permanent solution. Flex MSE offers quick installation and does not require specialized equipment or labor, bringing costs down. These units are recycled, non-toxic products that meet LEED requirements. They are flexible enough to conform to any landscape or surrounding trees and support and feed the vegetation.

Flex MSE weathers events that would ruin other systems, and only gets stronger and greener as time goes on. While settlement and water ruin concrete walls, Flex MSE has a very high settlement tolerance and drains excess water through the units to feed the vegetation. This drainage ability eliminates the need for pipe or chimney drains behind the units.

Benefits:

- Permanent Retention and Erosion Control
- Cuts conventional wall installation times in half
- Restores natural habitat and property
- A Low Impact Development solution

MANAGING STORMWATER IN OREGON



June 16, 2022 | Salem, OR | Salem Convention Center

Join Cascade Geosynthetics at the 2022 [Managing Stormwater in Oregon Conference](#). This annual event convenes regulated companies, solution providers, and government agencies to explore current topics, best practices, and the most effective solutions in stormwater management. Cascade will have a booth at this conference and our team is looking forward to seeing everyone there! [Register here](#).

Designed by environmental professionals from across the region's consulting, legal, regulatory, policy, and regulated industries, the four track, twelve session agenda will cover a wide range of topics addressing the issues and challenges in the fast-changing environmental landscape for stormwater professionals.

Attendees can earn CEUs and network with stakeholders working in the stormwater sector. The conference also features a trade show where the region's top service and technical stormwater solution providers (i.e. Cascade Geosynthetics) will be available with informative presentations and information about their products and services.



**Managing Stormwater
in Oregon**



TECHNICAL TALKS WEBINAR SERIES

Join us for our monthly webinars! We answer questions, share technical information and collaborate on projects, plus attendees receive a PDH Certificate for attending. Our goal is to educate attendees on some of the site solutions we can provide.



UPCOMING WEBINARS

Flex MSE Webinar

June 1st, 2022 | 12:30pm-1:30pm CST

[REGISTER HERE](#)



Learn about the Flex MSE Vegetated Wall System in our webinar. This system can be used for retention, slope stabilization, erosion control, landscaping or anywhere land meets water. Learn about this unique system which carries a 120-year design life, a 75-year warranty, and is the first Geosynthetic system in the world to have an internationally recognized EPD (Environmental Product Declaration). Flex MSE offers a low environmental impact solution that installs in 1/2 the time at nearly 1/2 the cost.

EMPLOYEE SPOTLIGHT



Nathan Walter

Warehouse Manager at Quick Supply Co.

Nathan grew up in Ankeny, Iowa, and has worked at Quick Supply Co. for over 18 years. He started on the explosives side of our business, working his way up to a lead blaster. In 2015, Nathan transitioned to the landscaping and geotextiles side of the business and was promoted to Warehouse Manager in the spring of 2021. Throughout his time at Quick Supply, Nathan has helped see the company through growth and many yard expansions. In his role as Warehouse Manager, he coordinates deliveries and manages the daily operations of the warehouse/yard. He makes sure customers get in and out of our yard quickly, that our warehouse is organized, and that customers receive the highest level of customer service when getting materials from Quick Supply. In his spare time, Nathan enjoys golfing, Husker football, playing guitar and sharing life's adventures with his wife.

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ENGINEER'S NOTE

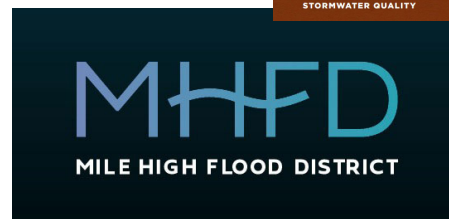
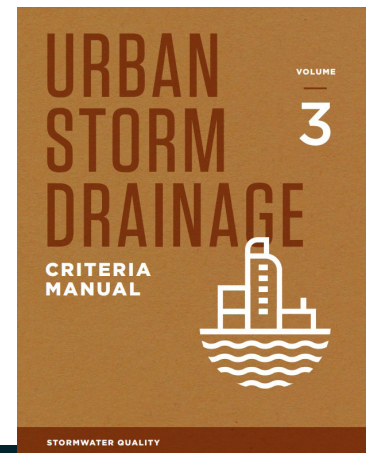


Bill Murphy, P.E.
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From the Desk of Bill Murphy, P.E.

More than just mountains! (Part 2) Last month I talked about Colorado's water rights (and several other states). While the laws governing water rights are complicated, the basic concept is simple: you do not exclusively own the rights to water that falls on your property in Colorado. There are exceptions, for example, some communities allow a rain barrel or two to collect rainwater for irrigation. However, everyone must research their deed and know their legal rights and restrictions. So, what about green infrastructure and low-impact development? Does this mean that no one in Colorado is allowed to manage the water that falls and runs across their property? Absolutely not. In fact, the state of Colorado and most of its larger communities urge homeowners and land developers to slow, cool and clean stormwater before it leaves their property.

For more than a decade, our friend Andrew Earles Ph.D., P.E. (Vice President of Water Resources for Wright Water Engineers, Inc. (WWE) in Denver, Colorado) has worked closely with the Mile High Flood District (formerly Urban Drainage and Flood Control District) along with many other talented people in public and private roles on updating their "Urban Storm Drainage Criteria Manual" (now up to Volume 3 – updated Jan2021). The purpose of the manual can be summarized as "... providing guidance... in selecting, designing, maintaining, and carrying out best management practices." That's where we come in. We offer a variety of erosion control, sediment control and stormwater management solutions that help you achieve those shared goals. We partner with cities, counties, states, engineers, landscape architects and contractors to select BMPs that help "minimize water quality and quantity impacts from stormwater runoff." Rainwater is a resource that must be appreciated and protected. We can help.



2022 IECA GREAT CONNECTIONS CONFERENCE

July 26–28, 2022 | St. Louis, MO

Join ASP Enterprises and Quick Supply Co. at the 2022 IECA Great Connections Conference July 26-28 in St. Louis, Missouri! We will have a booth at the conference and look forward to seeing everyone there, so mark your calendars! Learn more and register [here](#).

Stormwater, Erosion Control and Watershed Management professionals are encouraged to participate and learn about the latest techniques and technologies in the industry. The Great Connections Conference is a great way to connect with others in the industry while expanding your knowledge and skill set.

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