

THE PROFILE NEWSLETTER

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STRONGRAIL™ Architectural Handrail Incorporated Into Hurricane-Proof Homes!



A hurricane resistant model home on Topsail Island in North Carolina has been fitted with Strongwell's new architectural handrail system, STRONGRAIL™.

The home was designed by 1st Class Homes NC, with the help of three engineering firms, to withstand hurricane force wind to Category 4 (140 MPH). 1st Class Homes selected STRONGRAIL™ because of fiberglass handrail's engineered wind-load strength, durability of finish and attractive appeal to homeowners, designers and builders. Potential customers can purchase the entire home package from 1st Class Homes or may select STRONGRAIL™ to renovate and upgrade existing homes, docks, piers, condominiums and commercial structures.

Over 500 linear feet of the composite handrail complements the home in Topsail. Square pickets with rounded handrail in 36" and 48" heights were selected to outline the wrap-around porch, sun-deck and entrance stair ways. The lightweight handrail sections were prefabricated by Strongwell and shipped ready to install. The installation only required three men and three

days! 1st Class Homes expects the handrail will have a full return on investment in less than three years.

The low-maintenance STRONGRAIL™ handrail is cost-competitive with traditional railing materials. STRONGRAIL™ is a better choice than PVC, which has no comparable strength or durability to fiberglass and degrades rapidly in coastal environments. When compared to lumber, the high quality pultruded shapes that comprise STRONGRAIL™ will not splinter, stain, warp or require repainting for the next 10 years or longer. Advantages over competing aluminum and steel systems include resistance to oxidation, discoloration and pitting. In the highly corrosive salt-water environment, STRONGRAIL™, with molded-in color, will outlast aluminum and steel systems with virtually no maintenance.



A Managing Partner of 1st Class Homes NC, said, "Strongwell's STRONGRAIL™ is a long-term, cost-effective solution for our coastal-designed decks and porches. We will include this product in every home we custom build. Our integrity & reputation is safe-guarded and certainty like this comes but once in a lifetime. Thank you, Strongwell." ●

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Case Study: **EXTREN®**, **SAFDECK®** & **DURASHIELD HC®**

Colossal Cooling Towers Rebuilt Using Fiberglass Components

GEA Power Cooling, Inc., a wet and dry cooling solutions leader, was contracted to replace two concrete cooling towers for the Anclote power plant.

The more than 200 ft. diameter round cooling towers dissipate waste heat from the power plant to the atmosphere by cooling a water stream to a lower temperature.

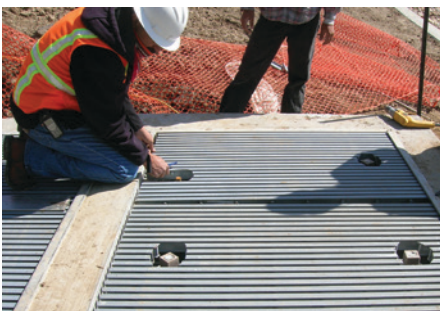
Because of the extreme amounts of salt in the supplied cooling water, future corrosion resistance was a major concern. Fiberglass replacements manufactured by Strongwell were selected to replace the heavily corroded concrete structures.

Strongwell's **EXTREN®** structural shapes, in conjunction with **SAFDECK®** decking and **DURASHIELD HC®** building panels, were utilized in the new construction. The corrosion resistant benefits of the pultruded fiberglass composites translate into a virtually impervious structure that will resist the environmental conditions of the cooling system. In addition, cost savings will increase significantly due to the lightweight, high strength materials' low maintenance requirements. ●



Case Study: **EXTREN®**, **DURAGRID®** & **DURAGRID® HD**

Storm Water System Protected by Strongwell's Pultruded Products



The City of Denver is planning ahead for storms, floods and other natural disasters. Recently, Denver moved forward with upgrading the city's storm water system. The effort was designed to minimize street flooding around Ferrill Lake, the

centerpiece of Denver's City Park, and to restore the area's historic integrity.

Concrete Works of Colorado teamed with Parsons Engineering to construct the necessary improvements to transform the lake into an irrigation and storm water detention center. The groups had long-term performance and strength in mind when designing the drainage facilities. The contractors selected Strongwell's **EXTREN®** structural shapes, **DURAGRID®** & **DURAGRID® HD** grating to construct fiberglass storm gates.

The strength, resistance to corrosion and long-term reliability found in Strongwell's fiberglass products were ideal to protect

the draining system from debris. The fiberglass products also mean years of low maintenance service; much better than the previous grates that were fabricated with galvanized steel and had failed. ●



Case Study: EXTREN®

EXTREN® Supports Heavy Duty Wastewater Piping

Massive aeration pipes at the Littleton/Englewood wastewater treatment plant in Englewood, Colorado, are being supported by EXTREN®, Strongwell's proprietary line of fiberglass reinforced structural shapes.

The cities of Littleton and Englewood, Colorado experienced major population growth that, with an increase in demand

and arrival of more stringent pollution control regulations, pressed the cities to update their shared water treatment facility. Contractor Western Summit Constructors won the job to increase the wastewater treatment's capacity from 36 million gallons per day to 50 million gallons per day.

A portion of the plant's expansion included the addition of 20" to 48" diameter aeration piping placed into a submerged basin. The heavy duty piping was fabricated to contain 5,000 pounds of thrust that is produced by the air passing through the aeration system. Given the corrosive wastewater treatment environment, Strongwell's EXTREN® fiberglass structural shapes were selected to fabricate the single and dual seated pipe supports.

The EXTREN® pipe supports were a perfect fit



because the lightweight FRP beams, columns and gusset plates are all corrosion resistant and extremely cost effective when compared to stainless steel. The project managers at the Littleton/Englewood were extremely pleased with the installation and love the fact that the fiberglass pipe supports will remain virtually maintenance-free for years to come! ●

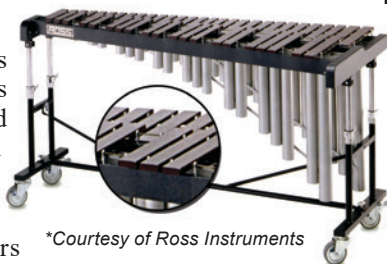
Case Study: EXTREN®

Fiberglass Plays Key Part in Musical Instruments

Ross Mallet Instruments designs musical instruments for professionals and students at all educational levels.

Ross preferred pultruded rectangular bars from Strongwell for use in the company's indoor/outdoor xylophone and marimba product lines. The thick fiberglass bars were selected because of Strongwell's ability to maintain consistent quality. Consistency was essential because high cures are needed to achieve specific ring tones and produce high quality sound.

Additional factors also supported the pultruded solution. The fiberglass bars prove more aesthetic than aluminum and more available than the traditional rosewood bars. Fiberglass also provides superior longevity despite environmental conditions. Most importantly, the musical instruments will produce beautiful sound outdoors just as pleasing as on the concert stage. ●



*Courtesy of Ross Instruments

Case Study: DURADEK®

Fiberglass Grating Offers Simple Installation with Superior Results

Four floors up, an exterior maintenance platform's stability and safety was the major concern for Yuen Long primary school in Hong Kong. The customer required a straightforward installation that could be assembled on site with minimal labor.

International distributor Bumatech selected Strongwell's DURADEK® I-6000 1.5" fiberglass grating for the platform walkway because of DURADEK®'s light weight and dependable strength.

The panels were cut on site to the exact width of the platform. The DURADEK® grating was then attached to the supporting framework and held in place with simple hold downs. The fiberglass grating provided reliable strength as well as a pleasant look to the platform. ●



Case Study: COMPOSOLITE® Secondary Containment Systems Shore Up Substations

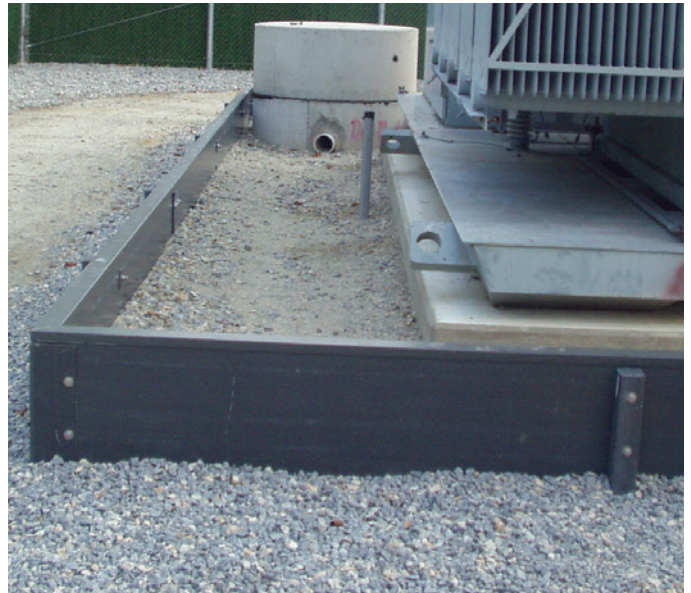
Strongwell distributor, J. P. McElvenny Co., has provided several new COMPOSOLITE® Secondary Containment Systems to Delmarva Power. The pre-cut, ready for installation kits are designed to function as oil containment dikes around power substation equipment while also meeting an Environmental Protection Agency (EPA) mandate,



the Spill Prevention Control and Countermeasure (SPCC) plan.

Delmarva Power was initially curious about the cost and installation of the fiberglass systems, but was well satisfied with the final results. The COMPOSOLITE® kits' quick installation times and cost savings, compared to a concrete alternative, prove the value of the fiberglass containments. The fire retardant

containers may also be easily removed if it becomes necessary to replace the equipment the containment systems surround. Added benefits of Strongwell's system include UV resistance, low thermal and electrical conductivity and a low maintenance life cycle. ●



STRONGWELL. People

Bill Faust - Regional Sales Manager



Strongwell welcomes Bill Faust as the new Regional Sales Manager for the territory covering Illinois, Missouri and Kansas. He is a graduate of the University of Missouri and holds a Bachelor of Science in Business. Bill comes to Strongwell from Westfall Company and brings extensive sales experience in pultruded products. He specializes in corrosion resistant materials.

Rebecca Crawford - Customer Account Specialist



Rebecca Crawford has accepted the position of Customer Account Specialist at Strongwell's Bristol Division. Rebecca is responsible for handling customer inquiries and orders for all of Strongwell's product lines. She is a graduate of Old Dominion University in Professional Communications and Counseling and has a background in construction and non-profit work.

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