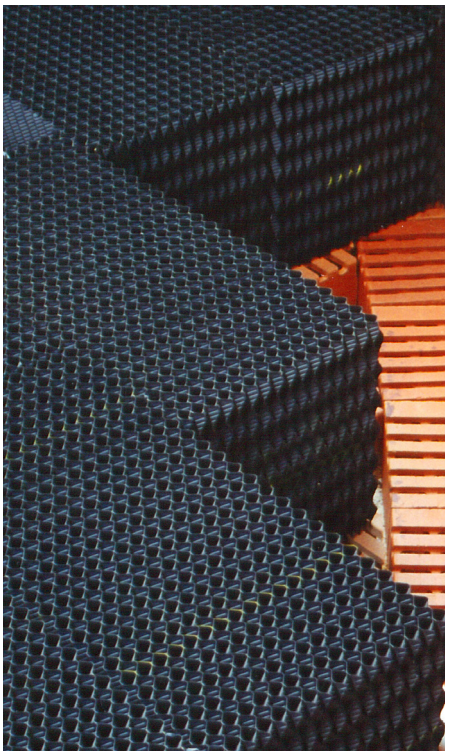
MARPAK biomedia system

WASTEWATER TREATMENT

MARLEY®

Make Your Projects and Expansions as Simple as Possible

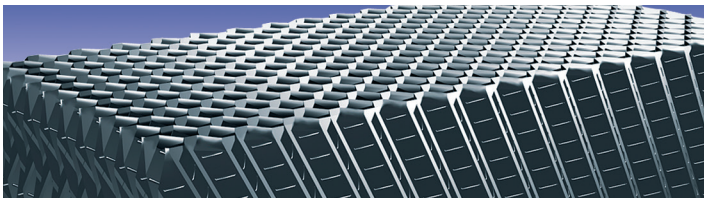


On-Site Pack Making

SPX Cooling Technologies' extensive knowledge and experience in manufacturing Marley PVC film-fill carries over into PVC media production for the biomedia market. Our capabilities in fill production includes the ability to manufacture adhesive bonded packs at the jobsite. In some cases, the ability to manufacture fill on-site means a lower cost to the customer and assures the highest quality product available and eliminates the dependency on freight carriers. This ability also ensures a timely delivery of packs at the jobsite, potentially reducing construction downtime and labor costs.

Construction Services

As a single-source supplier for cooling tower components, SPX Cooling Technologies extends the same philosophy to water waste treatment/biomedia installation. Construction is an integral part of the teamwork responsible for function and performance of your biological wastewater treatment. MARPAK biomedia is installed under the supervision of trained and experienced personnel—in most cases the entire crew are full-time SPX Cooling employees. Our superintendents are trained in the proper procedures for Marley fill pack installation—their many years of experience enables them to spot potential problems during the construction phase. SPX Cooling personnel installing Marley components on a regular basis ensures consistency and quality.



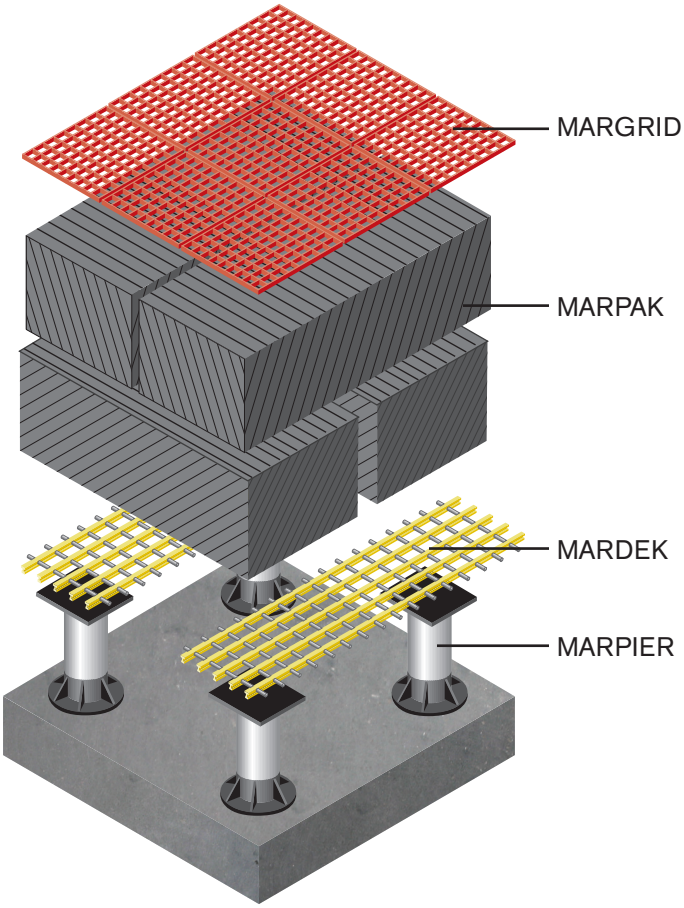
MARPAK®

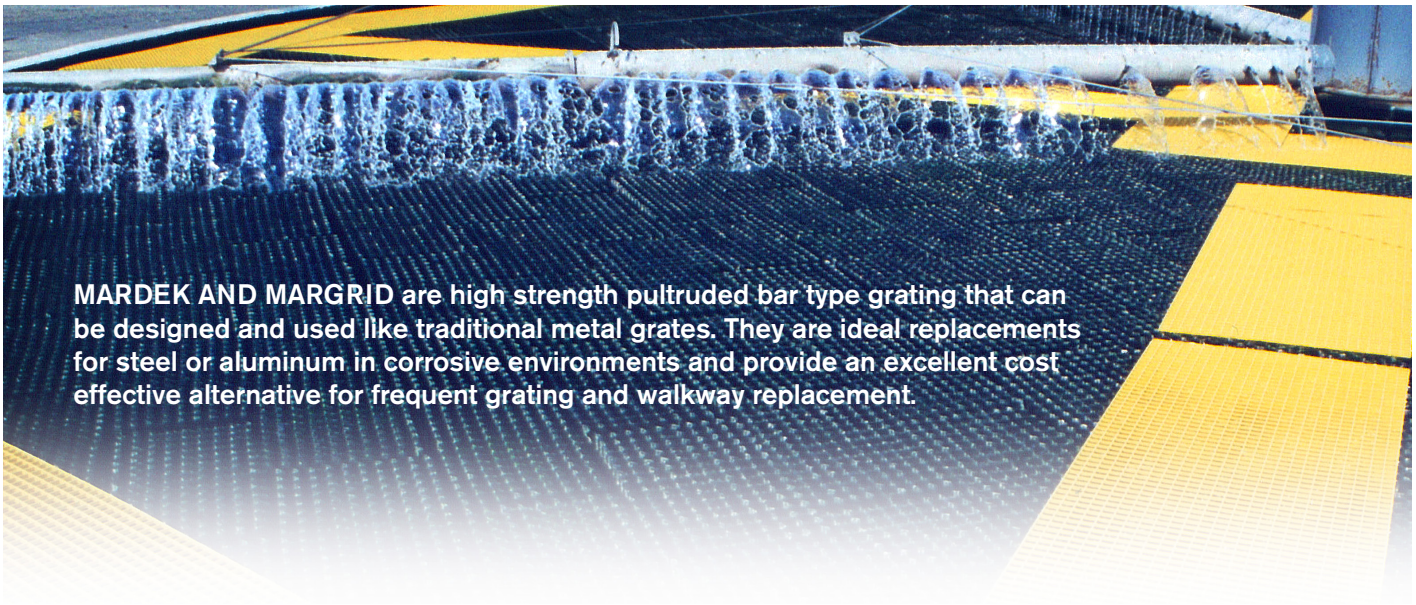
MARPAK is a modular PVC corrugated media specifically designed for biological treatment applications. MARPAK media is manufactured from rigid PVC sheets that are UV protected and resistant to rot, fungi, bacteria, as well as acids and alkalines commonly found in wastewater. MARPAK modules are manufactured in various sheet thicknesses to meet specific structural requirements. MARPAK includes a full range of modular PVC media geometries for wastewater treatment including complete secondary treatment, nitrification, denitrification, industrial roughing filters and anaerobic treatment.

MARPIER™

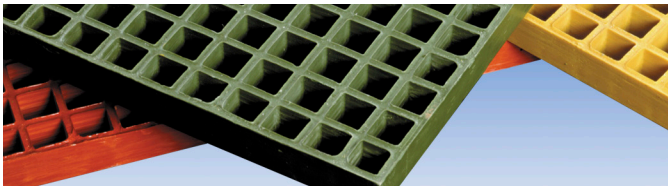
MARPIER is a specialized support system for biological treatment applications. It can be configured to accommodate various table floor slopes. MARPIER provides a firm foundation for all common filler configurations.

The Biomedia System





MARDEK AND MARGRID are high strength pultruded bar type grating that can be designed and used like traditional metal grates. They are ideal replacements for steel or aluminum in corrosive environments and provide an excellent cost effective alternative for frequent grating and walkway replacement.



MARGRID™

MARGRID custom grid or grating systems are designated to accommodate specific applications that cannot effectively be met by a standard fiberglass grating. MARGRID offers the customer options such as selection of open space, bar shape, cross-rod placement, customer fabrication, customer resin and color.

MARDEK™

MARDEK is a standard product stocked by distributors nationwide. It is available with individual bearing bars in either 1" or 1½" I-shapes or a 2" T-shape. MARDEK is a flame retardant product utilizing a polyester or vinyl ester resin. The bearing bars are assembled into 12 panel sizes: 3, 4, and 5-foot widths in each of 8, 10, 12 and 20-foot lengths. Standard panels come with cross-rod spacing of 6" or optional 12" on center.

Why Use MARDEK and MARGRID?

They are lightweight, which saves on freight and makes installation easier. Their unique cross-bar construction allows the grating panel to be easily cut and modified to fit almost any plant requirement.

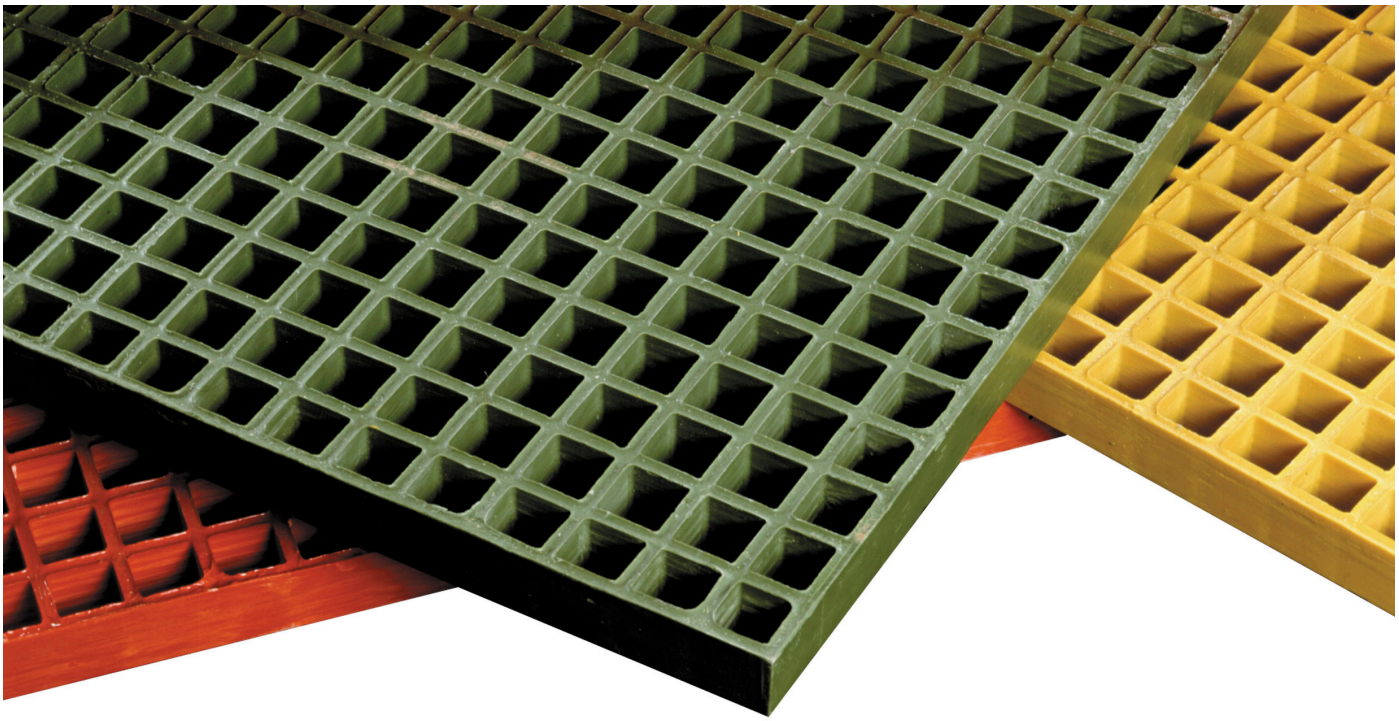
Features

- Corrosion Resistant
- Structurally Strong
- High Impact and Fatigue Strength
- Lightweight
- Easy to Fabricate and Install
- Low Maintenance
- Low Electrical and Thermal Conductivity
- Resistant to Chipping and Cracking
- Aesthetically Pleasing Appearance
- Skid Resistant
- Rigid
- Non-Sparking

MARPAK®

Biomedia

WASTEWATER TREATMENT SYSTEM



Materials of Construction

MARDEK and MARGRID fiberglass are a composite of fiberglass reinforcements (fiber and mat) and a thermosetting resin system, produced by the pultrusion process. The pultrusion manufacturing process produces many of the outstanding characteristics of the product. The bearing bars use both longitudinal glass roving and multidirectional (glass mat) reinforcement as well as a synthetic surfacing veil to provide unequaled strength and corrosion resistance.

The densely packed core of continuous glass roving gives the bar strength and stiffness in the longitudinal direction while the continuous glass mat provides strength in the transverse direction and prevents chipping, cracking and lineal fracturing. The synthetic surfacing veil provides a 100% pure resin surface for added corrosion resistance and UV protection.

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