

# ACTIVITIES REPORT

# 2022



Courtesy photo of Holland Composites



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# Executive Letter

Dear Customers, Colleagues, and Friends,

For nearly three years, we have been navigating through an unprecedented global health crisis that has continued to challenge all of us, both personally and professionally. As society begins to emerge from the pandemic, it is our hope that you and your loved ones are staying healthy and safe.

Through these years, we managed to lead the way with an outstanding performance across the world. I am proud to say that we have achieved record revenues and our efforts to build a strong company in the composite industry have helped us to achieve enormous success.

## Among the biggest again this year...

In 2022, we succeeded in being the 650<sup>th</sup> largest exporter in Turkey according to the study of "Turkey's Top 1000 Exporters in 2021" by the "Turkish Exporters Assembly (TEM)". We were also ranked as the 517<sup>th</sup> in "Turkey's Top Industrial Enterprises" report by the Istanbul Chamber of Industry (ICI). We were honoured to find ourselves in good company, earning a spot on these lists along with the top companies in Turkey.

## Growth and new investments have been all our focus in 2022...

In 2022 we added two additional facilities to our existing Manisa campus. One is 10 000 m<sup>2</sup> and the other one is 6 000 m<sup>2</sup>, these two new facilities has enabled us to grow capacity and increase service levels to the local and European customer base. We also started to the pultrusion production for our wind energy customers. In 2023, we will be investing more in new lines and be able to meet wind energy industry demands as a one-stop shop solution partner for composites.

I am also proud to say we will invest 2 million EUROS in our Hungarian facility; under the umbrella of the "Level-Up Project." We have already started to work on the project in 2022 but there is a long way to go as we aim to increase our production capacity by fifty percent by the end of 2023.

As for USA, we re-engineered many of our processes for further growth in the global markets with a new management, we increased the efficiency, extended our warehouse capacity and also invested in new multi-axial production lines at the end of the year as the product & service demand increased in marine, automotive and construction industries.

The commitment to our loyal customer base is what drives all the decisions we make. As we expand our business, we will be helping our customers grow their businesses as well, through

our strengthened portfolio of products, improved logistics, and even more comprehensive services and support. We are grateful to our customers, partners, and distributors for our continued growth, and we look forward to working together as we execute our vision.

## Happy to be back with our signature event: 5th METYX Composites Summit

After a long time, we finally reunited with the composite industry in our signature event METYX Composites Summit this year. Since the beginning, we always believed in creating a platform that we can exchange our knowledge and experience that will add a value in our industry and will help us expand our visions. So luckily experts from all over the world agreed on participating in our event and share their case studies with us in the conference part of the summit at the first 2 days that took place in Izmir. We are also grateful to be partnering with experienced Composite Integration for Infusion & RTM trainings that took place in our Manisa facility. I do hope the whole summit has been useful for all the participants as well as our speakers and sponsors.

## Sustainability...

As a human being our primary role is to be a good steward of our community and to leave a better world for tomorrow. I am sure we all try to do our best individually to protect the environment, but there is more that can be done. As a company, we asked ourselves how we can we focus more on this mission. For many years even though we have been recycling, working on environmental projects, and maintaining sponsorships that support sustainability, we knew we had to do more, so our first step was to create a new sustainability department. This global unit will help raise an awareness about the dangers that we are facing globally and how we, as METYX can improve ourselves and do more for the future generations.

## In closing...

The progress we made in 2022 was massive and we have been busy, especially coming out of the pandemic. We attended all the major trade shows in our industry and had a chance to catch up what we had missed the last few years. We continued to invest in innovative technologies, people, new production lines and even new sites this year. We will continue to move forward into 2023 with investments, as well as we will ensure we balance our growth and maintain stability, and also we are happy to complete our 20th year in the composite industry.

## Stay healthy and well.



**Besim Uğur Üstünel**  
CEO  
METYX



## METYX USA Updates

### Workforce planning, sales and production all ramped up this year!

2022 was a busy year for METYX USA. With a new Plant Manager leading a team focused on ramping up production, METYX USA has re-engineered many of its processes for further growth in the global markets. Milestones within this re-engineering process were the setup of new key processes, plant re-tooling and company-wide preparation for a new ERP system which has already been introduced in Europe and the investment in new equipment and several new team members.

During 2022, the Gastonia, North Carolina plant has worked diligently to manage growing demand for the product at the same time the world has faced historical shortages of skilled workers in the manufacturing industry. Every day METYX was training operators to take on greater responsibilities to make the best quality product. METYX USA added new lines, enhanced training procedures, and developed a compensation plan tied to learning new skills.

The plant has also constructed warehouse and office expansions. The total production and office space for the Gastonia, NC, facility is now close to 141,000 sq. ft. Part of the re-engineering project included creating office space for our new engineering, safety, accounting, and HR staff. Those teams are now located within very close proximity to both the production and logistics departments, which has resulted in improved cooperation and communication. The Human Resources Team has been working on a Leadership Development Program and as part of the skills training many of emerging leaders have taken a globally recognized behavioral based assessment known as DiSC®. This is a personal assessment tool used by more than one million people every year to help improve teamwork, communication, and productivity in the workplace. Supervisors and Managers have also attended training such as

Managing Across Generations, Managing Conflict, Crucial Conversations, Positive Workplace Practices and SMART Goal Setting.

METYX USA has targeted to further improve customer satisfaction, quality, and production yield. This was seen as the base for further growth with our existing business and in new markets such as high end automotive where we are collaborating exclusively with a client to design and produce high end specialty vehicles. This venture has created opportunities worldwide for us as we continue to grow.







## METYX HUNGARY Updates

### METYX operations in Hungary continues to grow

#### New investment amounting to 2 million Euros in Kaposvár

IMETYX Hungary is going to invest 2 million EUROs in its Kaposvár Factory under the umbrella of the "Level-Up Project." Along with this investment, METYX Hungary aims to increase its GRP and Composite production capacity by fifty percent, especially in the Technical Textiles division.

Hungary Factory Manager Cenik Çobanoğlu said: "In the last 3 months of 2022, we are going to increase our GRP and Composite Production Capacity by approximately 50%, especially in our Technical Textiles department, thanks to our new investments of approximately 2 million EUROs in our Kaposvár Factory under the umbrella of the Level-Up project." Stating that they have invested in 3 100-Inch COP MAX 4, 1 Warping Machine and 100-Inch Weaving Machines in addition to the existing Technical Textile Machinery Park, Çobanoğlu said: "In 2023, we will also produce our warp bobbins under the roof of our company. And thus, we are going to eliminate our foreign dependency on one more product."

In 2023, we plan to increase our existing closed production area of 16,000 m2 to 22,000 m2 with an increase of 40%. Approximately 4000 m2 of this expansion includes new construction projects, including a new production hall and 2000 m2 of warehouse expansion projects." Stating that they are currently benefiting from the incentive packages already provided by the Hungarian Government for these capacity increases and new construction projects, Çobanoğlu underlined that they are also going to take advantage of new incentives. Stating that they are going to make a significant contribution to the employment of personnel in 2023 along with the capacity increases, Çobanoğlu said: "We aim to employ a total of 100 new employees. We will be creating new job opportunities for the people living in Kaposvár."

Apart from these projects, they are continuing to support the local community in social, economic and educational issues, Çobanoğlu said: "In 2023, we shall continue to be in close relations with the Hungarian and Kaposvár authorities as in previous years. In 2023, we shall launch the "Engineering Interns" Program, primarily at Kaposvár University. We have prioritized the program and have started interviewing candidates. We are also planning to extend this program to technical high schools. Together with all the other major local companies, we signed a letter of intent for the newly established technology, science and innovation zone in Kaposvár, and declared our commitment. In 2023, we mutually agreed to work together (with the above-mentioned major local companies) on three different projects. In this context, our engineering team continues to work on these issues. In line with the expectations of our city, we continue to cooperate with Kaposvár Municipality in social responsibility projects and support local sports clubs."

#### "Our goal is to go beyond expectations"

Stating that they are a company that is continuously growing globally and therefore locally, Çobanoğlu said: "We continue to increase all our investments and energy in 2023. In this sense, we would like to thank everyone in our organization, especially our CEO Uğur Üstünel, for their support. In 2023, our goal will be to go beyond the expectations of our business partners with our personnel and our efficient and sustainable product range without compromising on quality."







## METYX added 16.000 m2 of covered manufacturing space to its Manisa campus

**METYX Manisa campus has grown with two additional campuses added to our existing facilities. Two facilities, 10 000 m2 and 6 000 m2 respectively, will enable the company to grow its capacity and increase service levels to the local and European customer base.**

METYX is in the process of expanding its production facilities in Manisa, Turkey. METYX began manufacturing technical textiles and composites-related products in the Manisa Industrial Zone in 2012 with a 12,500 square meter (134,550 square foot) factory. In 2016, by acquiring the land and buildings adjacent to the existing factory, the company expanded its site to 2.3 hectares (23,000 sq. m), providing METYX the space to not only double weaving capacity for glass and carbon fibre multiaxial fabrics, but to also add more tooling and kitting capacity.

In 2022, again in the Manisa Industrial Zone, METYX began operations of an additional new warehousing facility approximately 13.000 sqm with 10.000 sqm covered space to

further improve stock holding and distribution services. At this facility the company support customers nationally across Turkey and supply a growing number of export customers.

As the company has grown rapidly in recent years, METYX's four factories in Turkey, Hungary, and USA, have not been enough to fulfil the new product and services demand. Company leadership found a new site in the Manisa Industrial Zone allowing an increase in production capabilities, adding another approximately 16.000 sqm open area and 6.000 sqm closed area of space.

Additional staff have been recruited and has become full operational in 2022. This new sites continue to serve the composite industry and strengthen the company position as a key supplier in the market.







JEC World 2022



TURK COMPOSITES 2022

## Trade Show Activities 2022

Even many of the major trade shows have been postponed to 2022, METYX was still able to attend:

### **JEC World 2022**

(Paris, France)

May 3-5

### **METYX COMPOSITES SUMMIT 2022**

(Izmir - Manisa, Turkey)

May 23-27

### **SAMPE 2022**

(Charlotte, NC, USA)

May 23-26

### **IBEX 2022**

(Tampa FL, USA)

September 27-29

### **Turk Composites 2022**

(Istanbul, Turkey)

October 6-8

### **CAMX 2022**

(Anaheim, USA)

October 17-20

### **METS 2022**

(Amsterdam, Netherlands)

November 15-17

### **AMI Wind Turbine Blade Manufacturers Conference**

(Düsseldorf, Germany)

December 13-15

METX USA Chief Technology Officer Stephen Misencik was a speaker at CAMX 2022 Theatre Session and presented METX's web based application "METXALC".



CAMX 2022- METX USA CTO Stephen Misencik

## Planned events for 2023

### **JEC EUROPE 2023**

(Paris, France)

April 25-27

### **IBEX 2023**

(Tampa FL, USA)

October 3-5

### **WIND TURBINE BLADE MANUFACTURE 2023**

(Düsseldorf, Germany)

December 5-7

### **CAMX 2023**

(Anaheim CA, USA)

October 30 - Nov 2

### **METS 2023**

(Amsterdam, Netherlands)

November 15-17



AMI Wind Turbine Blade Manufacturers Conference



METS 2022



CAMX 2022





## METYX Composites Summit took place in Izmir and Manisa

METYX Composites Summit is our signature event. It was born out of the belief that ongoing formal training and real-world experience are what make it possible to turn ideas into successful end products. METYX Composites Summit has become the most comprehensive event for high-performance composites in Turkey. The event amassed industry leaders and professionals from around the globe in every sector of the composites industry. The latest METYX Composite Summit, offered attendees the opportunity to take part in interactive presentations and hands-on demonstrations; to learn about new products, techniques, and industry advancements; and to network with composites industry leaders, was held in İzmir and Manisa between May 23 and 27, 2022.

Due to industry growth and even greater demand for expertise, METYX Fifth Composites Summit promised to be the most informative yet. This year it included two days of composites conference followed by three days of practical training (RTM School and Infusion Training). All sessions were designed to provide the maximum amount of targeted content, including theory and practice with the goal of teaching, challenging and inspiring all attendees.

More than 170 guests from 15 different countries attended the conference session that was held in Izmir Kaya Thermal Hotel on May 23 and 24th, and a total of 21 presentations were made by experts from various sectors, two of them were online. It was unique in terms of breadth of content across industries where high-end composites were employed: marine, automotive, transportation, wind energy, construction and architecture, infrastructure, sports and leisure, and others. The conference was brought by METYX and valued sponsors such as Armacell,

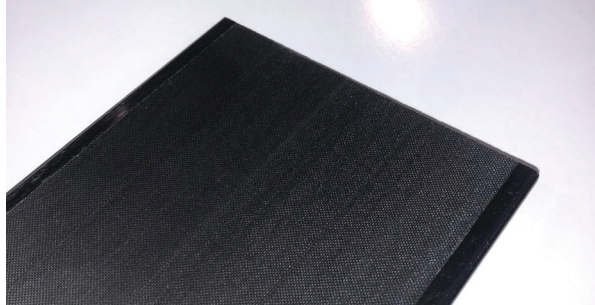
Axel, Composite Integration, Kompozitpazari.com, Oxeco, Scott Bader, Şişecam Glass Fiber, Turkish Composites Manufacturers Association and Westlake Epoxy. 2022's presenters represent world renowned companies and institutions, including ENSIA – Energy Industrialists & Businessmen Association (Turkey), Tenowo, Pontis, Oxeco, WINDNovation, Scott Bader, Adapa A/S, TPI, 3A, Armacell, Coats, Ferretti, Turkish Composites Manufacturers Association, Owens Corning, METYX, Orsa Projects, LM Wind, DD-Compound, Composite Integration (UK) and Kreysler & Associates.

Following the two-day composite conference, three days of infusion and RTM training took place in the Manisa plant along with support of Composite Integration. The participants benefitted from having practical demonstrations and training in RTM and infusion, seeing the latest in RTM and resin infusion technology; theoretical training combined with practical demonstrations, process techniques and troubleshooting, case studies illustrating industrial applications, overview of mold design and overview of mold construction and mold building materials.

The event was designed to be appropriate for newcomers to composites as well as those who required advanced techniques in order to maximize their results. METYX is planning to organize the next one in 2024.







## New Product: Pultruded Plank Production for OEMs

METYX has recently added pultruded planks to its product range in order to meet the OEMs one-stop shop expectation and fulfil our company vision of being a full solutions provider to our customers.

METYX has the capability for different resin systems such as PU injection and EP matrix systems with the expertise on the carbon and glass fiber materials. METYX offers a wide range of Carbon, Glass or hybrid NCF solutions for different applications thus, a carbon pultruded plank will be one step forward towards a solution to fulfil the customer needs.

Started in late 2022 for OEM validations, focused on EP matrix system and heavy carbon tows which gives high strength and

stiffness to the planks, this process is ready now for serial production for wind OEM's as a dedicated supplier for wind industry. METYX carbon planks are being produced using heavy tow carbon fibers, which can be utilized by traditional resin bath systems and injection systems.

METYX is working with different partners and solution providers using state-of-the-art technology, equipment and machines to be a reliable supplier. Our current capacity can run 4 streams and will be increased to 12 streams in mid-2023. To further add value, our textiles expertise provides us with the capability to produce our own peel ply which is being used to get the best surface properties for infusion of the planks.

## METYX has introduced a brand new web-based application to the composite world that will make laminate calculations easier!



METYX is METYX's web based application dedicated to the design of laminated composite structures. This program is developed to assist composite engineers in achieving specific estimated stiffness, strength and weight targets for their application in laminate design.

The engineering estimations generated by METYX are based on engineering principles and empirical data. It can be useful for the approximate sizing of composite laminates and for comparing various composite laminate designs.

The App has the feature to examine beam bending calculations by using various boundary conditions and load configurations;

- SS Endpoints - Centralized Loading
- Clamped Endpoints - Centralized Loading
- Assisted - Equal Loading
- SS Endpoints - 4 Point Bending
- Clamped Endpoints - Equal Loading
- SS Endpoints - Equal Loading
- Assisted - Loading from the Endpoints

Any composite material application with critical performance and safety requirements should be confirmed by the overall engineering and development approach, such as final laminate testing through ISO/ASTM test standards, which should be used to complete this design tool.

In order to provide better resin absorption in the core materials used in sandwich laminates, the channels, holes, etc. on the surface are taken into account in order to obtain an accurate result in the total laminate weight calculation.

Furthermore, METYX helps to speed up production and reduce labour by showing how different material choices can change the process. Meanwhile, it also offers cost-effective solutions in order to optimize the number of layers required to meet design goals.

METYX is a powerful user-friendly application that is free to use. METYX offers this to the industry as a value-added support tool in order to facilitate the evaluation of various design solutions.

You can access the METYX App at [www.metyx.com/metyxcalc](http://www.metyx.com/metyxcalc).





## Proud to support the BlueWind Team

BlueWind, a METYX USA Customer, was founded in August 2019 to supply a large demand of nacelle covers for the wind industry. In May 2022, they reached a very special milestone in their history: the manufacture of nacelle number 1,000. Blue Wind offers services including concept and prototyping, engineering development, mold production, part manufacturing, assembly and finishing, and final products.

The company has been working with METYX USA since the beginning. Due their history of positive experience with METYX in Europe and Composite Integration, they chose to work with METYX in the US as well. Now, they have 8 Ciject One systems in their production line that are relied on daily in their infusion process.

Working with METYX and Composite Integration gives Blue Wind stability in their workflow on the production line. In a matter of long-term commitment planning dates, cost targets, quality of the products and fast communication are all elements required to ensure success each day.

METYX USA provides e-glass technical fabric to the company from their Gastonia, North Carolina factory. METYX USA is the authorized Composite Integration distributor in the USA and is proud to support the Blue Wind Team in their pursuit of excellence.







## Oyster 495 wins European Yacht of the Year 2023

Globally recognized for their innovative boats, Oyster Yachts confirmed that their newest, and smallest, addition to the fleet, the Oyster 495, has won the European Yacht for the Luxury Cruiser category.

Designing, building and delivering the Oyster 495 marks a major milestone for Oyster coming into our 50th year," comments Richard Hadida. "As the 'baby' of our fleet, she embodies the best aspects of our much-loved larger superyachts, all within a compact 50-foot yacht, which feels much larger and more luxurious than other yachts of this size. The fact that she has met the demanding criteria of the EYOTY judges for the world's best luxury cruiser, is the highest praise for this new 50 foot bluewater benchmark. The 495 is the first all new Oyster under my leadership. It's a proud moment for me and the entire team at Oyster. We set a clear ambition and delivered upon it seamlessly. I'm excited about the future and the quality of yacht we can produce."

Now in their 20th year, the final decision was made by twelve jury members from across Europe, renowned for their

extensive knowledge and respected as leading voices in the industry. The jury members spend several days at sea in the autumn of 2022, gathering data on the boat's performance, design, sail plans and manufacturing quality.

Oyster, METYX distributor in UK GRP's customer, is a modern superyacht manufacturer that chose METYX e-glass and carbon fabrics to attain the high aesthetic finish standards and product performance needed for their luxury superyachts. Oyster 495's range of features are distilled from the luxury bluewater builder's larger yachts. The iconic Oyster styling is obvious; she is effortless to sail; delivers consistently fast passage speeds; and features contemporary new generation luxury interiors.

METYX products were chosen by Oyster as well as GRP, because of a combination of the outstanding technical product performance and the fast, high quality, reliable service provided.







Courtesy photo of Real Madrid

## Game Changing Development for the Construction Industry: New Real Madrid Stadium Project!

METYX is incredibly proud to share that it has played an integral role in the construction of the new Real Madrid stadium by supplying multiaxial fabrics for its state-of-the-art roof. This cutting-edge innovation has not gone unnoticed, as it has been nominated for the prestigious JEC Innovation Award 2023.

METYX valued customer, Gavazzi entrusted METYX high quality products with this groundbreaking project and invited the company on this phenomenal journey together to collaborate on a truly game-changing development for the construction industry.

Gavazzi Tessuti Tecnici is a textile company founded in 1881 and an industry leader in both the domestic and the international technical textile sector. Its product quality and customer-oriented attitude are at the core of its foundation. Gavazzi has become increasingly competitive in highly innovative markets over the past few years; from the building industry to the plastic materials industry, from the mosaics to the sport articles, from the wind energy sector composite materials to the boat building and the ballistic protections. The headquarter is in Calolziocorte, Italy and

two more production plants allocated in Cisano Bergamasco and Arcore, again in Italy.

The collaboration with METYX began many years ago when they decided to focus on their core business of technical fabrics and tapes and cease production of multiaxials and gradually sold all their lines to METYX facilities in Turkey and Hungary. METYX became their valued partner to supply multiaxials allowing Gavazzi to continue servicing their customers with these products, and since then they have been regularly buying e-glass and carbon fiber multiaxials. Being a former producer of multiaxials, Gavazzi has exceptional technical knowledge of these products and METYX produces them based on their own specifications.

"Right from the start our cooperation with METYX was marked by mutual trust and understanding. Being two family owned businesses focused on the technical textiles makes it easier to collaborate. All in all we have found in METYX a reliable partner," commented Gavazzi Sales & Marketing Director Dario Buzzi.



Courtesy photo of Real Madrid





## New Hospital Column Plug and Molds Manufactured at METYX Manisa

The preferred design for the new columns in the lobbies of the A and A2 entrances of Acibadem Ataşehir were C4C brand composite columns. The speciality columns were produced by METYX and provided with project design and contracting services by Dragos and met all the necessary technical and aesthetic needs for this challenging project.

In the project, a total of 12 column coverings, 6 in elliptical form with a length of 7.45 meters and 6 pieces of 7.85 meters in length, were produced and applied. C4C composite columns covered around the reinforced concrete columns were used for decorative purposes in the project. Eight columns were produced from

2 pieces and four columns were produced from 4 pieces and installed.

Plug and mold of the columns were manufactured at the METYX Manisa plant using a giant CNC machine. Consequently, e-glass fiber and Crestapol, Scott Bader's resin that METYX distributes in Turkey, was used to finalize the product.

Twelve columns, mounted very precisely in a short time in a challenging construction site environment, were installed on time and delivered to Acibadem Hospital.





## New Joining Techniques in Construction

Core Composites (CC), a Division of ROM Development Corporation, a project management company building advanced composite structures such as military field hospitals, truck mounted mobile shelters, autonomous surface ships, etc. has an extensive 44 year background in supplying and processing resins, core materials and reinforcements. CC works with construction, marine and industrial manufacturing companies in the development of their process technology, helping them to select the best process and materials for the part and volumes that they are trying to achieve. The present focus for CC is "innovation in composite material and processing." Projects using both thermoplastic and thermoset resins in the Construction Industry as well as "in-mold powder coatings" will play a role in developing "green," "sustainable" solutions to some of the World's most pressing environmental challenges.

Composite construction is becoming very cost effective due to improvements in materials and process technology driven by wind, automotive, marine and aircraft industries but modified appropriately for building construction. The increased use of CAD to CAM - CNC machines and robotic handling equipment are also driving the cost of composites down and take advantage of the light weight panels being able to be transported over road and assembled in large sections at the construction site.

Fire, smoke and toxicity were also difficult for composites to meet existing codes such as IBC but improvements in material combinations have successfully addressed this objection and offer higher survivability times than traditional materials. CC

has recently applied for a patent in this area after running a number of fire and heat tests for IMO (International Marine Organization) as well as US building standards such as ASTM E 84 and E 119.

In 2022, Core Composites chose to supply from METYX USA NCF reinforcements for its unique FS properties. Company founder and President Rich O'Meara, from Core Composites states: "We have distributed METYX USA materials for over 5 years and continue to be impressed with the service, product quality and management support that we get from everyone at Metyx from the CEO, head of Engineering and Customer support, they have a great team.

METXY supported us with a number of large sample rolls to run on our supplier's (Standard Panel, Inc., Tulsa, OK) 100" wide, continuous, phenolic resin panel line. We are very close to a cost effective, quality single ply skin that will be bonded in Standard Panel's large (40' x 8') vacuum presses to a variety of PET, EPS and balsa cores to provide a high quality, Structural Insulated Panel (SIP) that will not rot, corrode or degradate over time. This has huge advantages vs. traditional OSB (wood) EPS foam SIPs that are competing against legacy "stick built" buildings where material and labor prices are running well above the current US inflation rate making it even more difficult for people to afford to build new homes.

We look forward to further collaboration with the METYX team in 2023 and hopefully we will build more buildings as well as shelters with METYX fiberglass reinforcements."







## METYX Fabrics in Bio-Composite Materials

Holland Composites is a Netherlands based composite manufacture that demonstrates creativity with (Bio) composite materials. Showing a passion for technology and composites, they often develop and produce larger, technically advanced composite structures for the building industry. They think in total solutions and strive for customer excellence.

The company was founded in 1992 and has an impressive track record of successful composite projects ranging from high-quality single items as part of a special project, up to series-based solutions. Most projects are produced for the offshore / maritime sector, renewable energy & building industry. Conventional composite materials are toxic and non-fire-retardant. The building industry and especially façades and roof constructions can only be built with fire retardant materials. Apart from that aspect it needs to start building with more durable / CO2 saving and bio based materials to make the world a better place for the future.

With Holland Composites Duplicor pre-preg material, they present an unique fire retardant Bio-composite material, providing a solution for all negative aspects of toxic conventional composite materials like polyesters, vinylesters and epoxy's whilst providing the same positive aspects of a lightweight form freedom that come with use of composite materials.

For constructions of sandwich façade and roof elements, the Duplicor pre-preg laminates are produced with METYX glass fiber materials for optimum material properties. The City of Amsterdam set high standards for the new development, from the quality of the homes to circularity and sustainability, urban nature, mobility and public facilities.

Their last project the Pulse, located at the Zuidas Business District, meets all these requirements and is planned to be completed in 2024. The development consists of two towers – one office, one residential – atop a plinth that joins them and houses the leisure functions. On top of the plinth, and between the two towers, there is an urban forest at a height of 35 metres above the ground, complete with 8-metre-high native species of trees. This space is devoted to nature, and forms part of a green corridor linking the city's two largest green areas, the Amstelscheg and the Amsterdamse Bos. Holland Composites is making the exterior composites for composite structural façade elements at the project using METYX fabrics.

Working with METYX provides them a reliable supply of continuously growing demand for glass-fiber laminate material to use in bio-composite building products and/or side products as Duplicor profiles, Duplicor skins and Duplicor sandwich panels with high fire retardancy properties besides being made with unique bio resin compound. They use different Quadraxial glass fiber laminates to produce Duplicor pre-preg(s) with.







## UK's first specialist FRP pedestrian rail crossing bridge

METYX UK distributor GRP Solutions Ltd. has recently shared the great news about a new project of Suigeneris, GRP: the launch of the UK's first specialist FRP pedestrian rail crossing bridge.

Suigeneris collaboratively designed, manufactured, and installed the bridge with a host of industry-leading experts from across the country on behalf of Network Rail.

Craven Arms in Shropshire were the first to benefit from a major safety boost with the installation of this low carbon, lightweight and affordable safety alternative to a traditional steel and concrete bridge. Suigeneris even managed to incorporate a range Safe Tread, Non-Slip Products for Decking, Flooring and Stairs, providing anti-slip solutions too.

Designed and funded by Network Rail's R&D team, the 'FLOW Bridge' aims to provide a faster, more sustainable, and affordable option to assist with the closure of dangerous railway foot crossings around the UK. The footbridge replaces an extremely high-risk level crossing that closed a number of years ago after it was deemed unsafe for use.

Suigeneris authorities declared: "This has been an extremely challenging and exciting project for us to work on and we can't wait to share more very soon, so watch this space!"

METYX supplied many of the composites materials, and is proud to be a part of this project as it is a first in the UK.





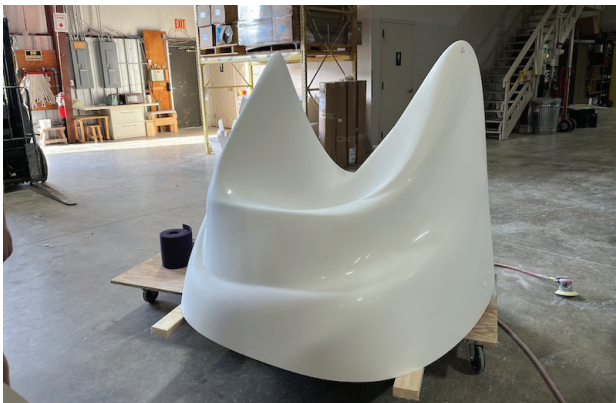


## Composite use at colorful chairs and slime slingshots

StudioLNGR are a design firm in architecture and have been designing architectural project for twenty (20) years and is based in Charlotte, NC, USA. StudioLNGR is a respected architect firm specializing in everything from buildings to unique components.

In 2022, they approached METYX USA for master plug and mold production services. Cost quality and timing were the main reasons that StudioLNGR chose to work with METYX USA. "We needed a high quality molds produced for our weird oversized chairs and slime slingshots and METYX did a fantastic job producing high quality molds for these products," commented Jefferson Ellinger, Partner StudioLNGR, Assoc. Professor UNC Charlotte, SoA.

METYX CTO Stephen Misencik: "We were delighted to help StudioLNGR make these extraordinary, colorful pieces. Our tooling and logistics team did a wonderful job, keeping quality and schedule as top priorities."







## METYX Hungary kft. takes part in charity for Covid orphans

In the beginning of 2022, the Mayor of Kaposvár, Mr. Szita Károly made an inquiry to the main employers of Kaposvár if they can support a noble cause. He mentioned in his letter that there was a country-wide organization (Érmeahló) which collected donation for children who lost their parents during the Covid Pandemic. This organization was also supported by the bishop of Kaposvár, Varga László, the President of The Hungarian Republic Mr. Áder János and the main patron of the charity is his wife Mrs. Herczeg Anita.

The management of METYX steadily stood behind the cause and after a discussion with the owner of the organization, has

decided to donate to support the COVID orphans. With this decision, METYX became one of the main benefactors among other Kaposvár companies.

Érmeahló organization held a dinner for the donating companies' representatives in the Kaposvár Cultural Palace where the organizers expressed their gratitude for all the support, and made sure that every dollar goes to the right place.

## METYX supports local waterpolo team in Kaposvár

METYX believes that sports and healthy lifestyles are essential, especially in these challenging times. METYX Hungary made a major step to support this cause; to become a sponsor of the Kaposvár waterpolo team who recently participated in the first league of the Hungarian championship.







## The Foundations of the Science and Innovation Park in Kaposvár Have Been Laid

The groundbreaking ceremony of the Science and Innovation Park, supported by the Municipality of Kaposvár and the University of Óbuda, was held in 2022.

METYX Hungary Kft took part in the groundbreaking ceremony of the Science and Innovation Park, which will be located in the Kaposvár East Industrial Zone near the METYX factory. Among invited guests were our Factory Manager Cenk Çobanoğlu, METYX Hungary Kft., Production Manager Blazsek Tamás and METYX Hungary Kft. Human Resources Supervisor in Zoltán Kelemen.

The construction of the Science Park, which is being supported by state funds, has begun and will host the R&D activities of many companies. For instance, in one of the factories in the

industrial zone, there will be an assembly point for electronic parts of military vehicles developed by the Turkish Army. Cenk Çobanoğlu was among the 15 other local company leaders who signed a letter of intent with Science Park and the University on behalf of METYX Hungary Kft.

Palkovics László, the Head of the Ministry of Technology and Innovation, Varga Mihály, the Head of the Ministry of Finance, and Szita Károly, the Mayor of Kaposvár, attended the event and made speeches emphasizing that the industrialization of the city of Kaposvár is a big step towards its continuous development. Hopes have been expressed that it will help to keep the local workforce in this area, as well as encourage other potential employees to work in the area.

## METYX continues its support of the sports!

METYX has always been a big fan of sports and tries to do its best to support the athletes. METYX had a chance to sponsor Mr. Ruso Yakimoviç who competed

at Ironman Kona World Championship that was held in Kailua Kona, Hawaii on October 6th and 8th, 2022.

The world's best triathletes gather each year to compete in this challenging and strenuous athletic competition. The purpose of the Ironman triathlon is to test the physical endurance and mental stamina of its athletic participants due to its grueling length (11 to 17 hours of constant exercise) and arduous race conditions (winds, waves, heat, and sometimes very inclement weather).

Mr. Ruso Yakimoviç achieved to bring the best Turkish rank with 140.6 miles in 9.25 hours. METYX will continue supporting him in these competitions in 2023 too!







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