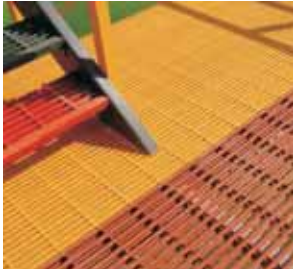


# WE COMPOSITES<sup>®</sup>



### Moulded & Pultruded Gratings

Kemrock is one of the world's largest manufacturers of moulded gratings, which are produced under a strategic alliance with M/s. Fibergrate Composite Structures, USA. Top Glass is one of Europe's largest suppliers of moulded and pultruded gratings. Supplied from their Pioltello distribution centre, TopGrid gratings meet the specific demands of the European market.



### Pultruded Structural Profiles

Our combined Pultrusion capability makes us one of the largest Pultrusion producers in the world. The Kemrock Plant in Vadodara is an alliance with Top Glass, who provide us with the cutting edge technology both in Pultrusion and Pullwinding. Kemrock's large production capacity, coupled with its in-house raw material manufacturing capability, and Top Glass' unrivalled technical capability provides commercially competitive and technically superior pultrusion solutions.



### Composite Access Systems **EASY Reach**

Composite Access Systems are not only tough and durable, but are based on a market leading design that is modular, highly portable and meets the requirements of EN 1004. Based on pultruded and pullwound shapes together with Glass Reinforced nylon fittings they provide access to the most inaccessible areas. These systems can be customised and are suitable for both indoor & outdoor applications, especially in hazardous environments when working with over-head power lines.



### Composite Handrails and Ladder Systems

Our combined Pultrusion capability enables us to produce complete range of composite handrail and ladder solutions for access engineering applications. Supported by our Design Team in Vadodara, we are able to provide full confidence to our clients by way of the 3D and FEA Software we employ.



### Composite Piping Systems for Infrastructure & Sewage

At Kemrock's Vadodara facility we manufacture Filament Wound Glass Fibre Reinforced Pipes. Glass fibre rovings and thermosetting resins constitute the two main raw materials required for manufacturing of GRP/GRE pipe and fittings. Kemrock is amongst the very few GRP/GRE pipe manufacturers in the world who produce their own thermosetting resins such as Polyester, Vinyl Ester and Epoxy Resins for use in composite pipe manufacture..



### Industrial Cable Management Systems

Our combined reputations as suppliers of Composite Cable Management Systems grows year by year. Top Glass' specialist knowledge of the demands of the European Tunnel market provides the most exacting solutions for fire and toxicity requirements. Kemrock's corrosion resistant Cable Ladder system meets the most demanding industrial requirements, which comply with the highest Industrial Standards.



### Composite Lighting Pole & Flag Masts

Top Glass S.p.A., Italy is a world leader in the production of lighting poles, using the centrifugal casting process. Kemrock now uses this technology to cater to the Indian market for the supply of Lighting Poles & Flag Masts. They find particular favour in areas of high corrosion, such as coastal regions, or industrial complexes such as fertiliser plants.



### Rotor Blades, Nacelle Covers & Nose Cone

With over 28 years of product development experience in the field of Composite Technology, we have established a state-of-the-art Rotor Blade manufacturing facility to meet the demands of our customers in Asia, Europe and North America. In Vadodara we are producing the highest quality composite products to support the development of the ever evolving and increasingly demanding wind energy market. The Rotor Blade team comprises highly skilled professionals with extensive knowledge of aerodynamics, composite material and production technology.



### Railway Interiors & Exteriors

Both Top Glass and Kemrock are supplying the demanding Rail Industry using innovative techniques to produce rail coach products that are safe, meeting the highest international standards. A volume economics, engineering performance package provides aesthetically pleasing products supported by a well-equipped R&D facility, along with a highly-trained and experienced technical team, ensures that all items meet customer's expectations. Kemrock was the first, and remains the only Indian composites manufacturer to comply with IRIS (International Railway Industry Standard).



### Carbon Fibre

Kemrock has established a Carbon Fibre Division manufacturing Fibre under licence to National Aeronautical Laboratory (NAL), Bangalore. Using its own Carbon Fibre, Kemrock is manufacturing technical fabrics of the highest quality and moving into advanced composite production thereby enhancing its reputation as a composite major. Top Glass uses Kemrock Carbon Fibre in the manufacturing of Carbon Reinforced Custom Pultruded shapes.



### Application Development & Design Centre

Kemrock operates a fully equipped application development centre, providing Product Development, Destructive and Non-Destructive Testing, to support our internal activities and to also address the pressing and exacting requirements and applications of our partners and customers.

Top Glass supports its composites activity with a complimentary in-house testing facility.



### Thermosetting Resins: Unsaturated Polyesters, Vinyl Esters, Epoxy & Phenolic Resins

Georgia-Pacific Kemrock International Pvt. Ltd. (GPK) offers a comprehensive range of high-performance thermosetting resins for the composites industry in India. GPK resins are manufactured at Kemrock's most modern manufacturing facilities and state-of-the-art plant, controlled by precision DCS Systems, delivering batch-to-batch consistency. Approvals by Water Regulations Advisory Scheme (WRAS), Germanischer Lloyd (GL) and supported by a well-equipped R&D facility, along with a highly-trained and experienced technical team, ensure that the resins meet customer's expectations.

# A B O U T U S



Established in 1981, **Kemrock Industries & Exports Ltd.** manufactures and exports composite raw material and end user products for industrial sectors such as chemical processing, oil and gas, metals and mining, water and waste treatment, infrastructure, construction, pharmaceuticals, food and beverage, pulp and paper, electronics, railways, aerospace, marine, defense, wind energy, telecommunications and many more...

A leader in the field of composites in India, the company delivers standard as well as customized solutions that are ideal replacements for conventional materials particularly those prone to corrosion. The State-of-the-Art facility located close to Vadodara in the western part of India, provides high-quality engineered advanced composite solutions and reliable services, complying with customer specifications as well as national and international standards. Oriented towards continuous improvement, the company operates using principles of Total Integrated Management, ensuring complete customer satisfaction. Dedicated to single point responsibility it encompasses conceptual design, prototype development, testing, manufacturing, logistic support, installation and comprehensive after sales service.



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Since 1963, **Top Glass** has adopted a unique approach to the world of fibre reinforced pultruded composites.

During our 45 years history, we have developed an outstanding range of composites solutions calling upon our professionalism and expertise to meet the challenges and opportunities offered by our valued customers.

In doing so, we have created an important and viable alternative to profiles that are made using traditional materials.

Today Top Glass operates from two sites close to Milan (Italy), one in Osnago (14.000sqm) and the other in Pioltello (8.000sqm).

We have developed a highly impressive production capacity and dynamically undertake all new challenges by designing complex sections and moulds in our own tool room and choosing the exact material mixes to meet all requirements.



**Composite Solutions**

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