EN

krafton®
VAN BIJL

THE LEADING PRODUCER OF **GLASS FIBRE-REINFORCED POLYESTER PROFILES** AND **BRIDGE DECKING PLANKS**

Specialist in GRP pultrusion since 1995

About us

krafton® has been a leading and highly respected manufacturer of glass fibre-reinforced polyester profiles and high-grade composite structures for more than forty years

From our facility in Heijningen (Dintelmond), krafton® serves a steadily growing customer base throughout Europe. These customers use our products for a wide range of applications in construction, industry, rail infrastructure, transport, the HVAC sector, offshore, horticulture, energy engineering, sports and leisure. Ever since it was founded, krafton® has operated as a realistic and no-nonsense family company that relishes challenging projects. We attach great value to our customer relationships and to personal contact. Our specialists are always delighted to help you with questions and issues, and discuss the most suitable solutions for your needs.

We invest continuously in knowledge, innovation and production resources.

When you choose krafton®, you opt for maximum speed, quality and flexibility at an excellent price. **That's the unique strength of krafton®.**

This brochure presents our three main product groups.

- **GRP standard profiles**
- **GRP custom profiles**
- **GRP bridge decking planks**

Our history

Wim Bijl founded his company in the Westland area of the Netherlands in 1978, and produced the first mould for manufacturing polyester boats. After ten years, the company's activities had grown to such an extent that more space was required. A new facility

was built at the Dintelmond industrial estate in Heijningen, close to the marina, in 1988.

In 1995, Bijl started to make glass fibre-reinforced polyester profiles, in addition to the range of polyester products. The first pultrusion machine was purchased. It was not long before the first orders were received from the air treatment sector. Many other sectors, products and developments followed. In 2019, the company changed its name from Bijl Profielen en Bijl Bruggen to krafton®.

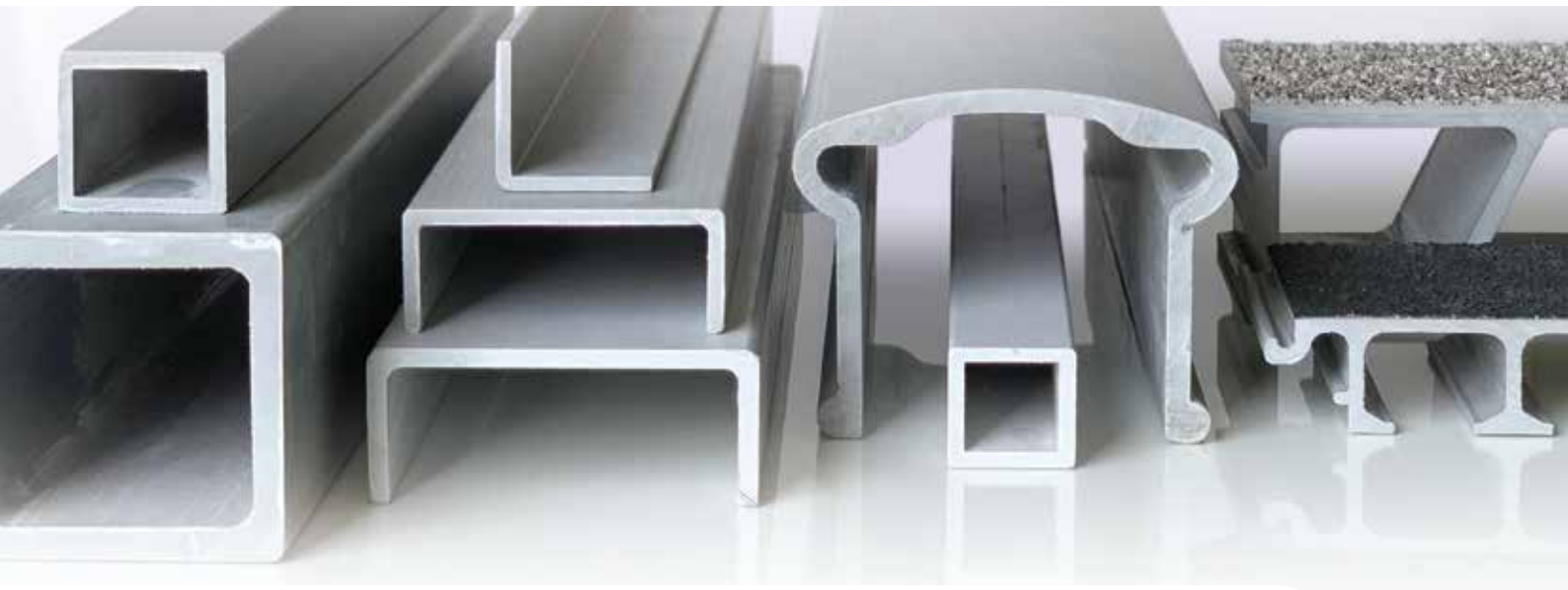
You can view an animation of the many changes that our company has undergone over the years on our website. After more than forty years, we know exactly what you require: precision, expertise, quality and maximum flexibility at an excellent price. **That's the unique strength of krafton®. Now and in the future!**

Contact

We would be delighted if you would visit us for a personal introduction, during which we can tell you more about our products and our approach. If you have any questions, please do not hesitate to contact us. If you require more information about krafton®, go to www.krafton.nl. Details of our complete range can also be found here.

krafton®
Markweg Zuid 34, 4794 SN Heijningen, Netherlands
Tel. +31 (0)167 521 717, Fax +31 (0)167 521 818

info@krafton.uk, www.krafton.uk



GRP standard profiles

krafton® profiles made from glass fibre-reinforced polyester (GRP)

krafton® is a highly reputable and extremely experienced Dutch manufacturer of glass fibre-reinforced polyester profiles. GRP is the usual abbreviation used for 'glass fibre-reinforced plastic'. These profiles are used in countless different industries, construction, rail infrastructure, the HVAC sector, etc. They are known for their excellent mechanical, dynamic and thermal properties. Further advantages are good UV and corrosion resistance and excellent electrical insulation performance.

In-house pultrusion capability

Since 1995, krafton® has developed a broad range of high-quality GRP profiles. The highly capable team of experts at krafton® uses pultrusion equipment to produce GRP profiles in the company's production facility in Heijningen.

Superior quality

The high-quality raw materials and precision-made moulds ensure that ensure krafton's® GRP profiles are highly resistant to chemicals and maintain their shape. The profiles' excellent and consistent quality is demonstrated by the company's many quality labels, certificates and positive audits, such as **EBA**, **DIBt** and **TÜV**.

NEN-EN 13706-23

Our GRP profiles have been tested according to the European standard **NENEN 1370623**. This certification assures us and you that our GRP profiles will perform safely and durably in a variety of applications.

Large range

Many years of research and development by krafton® have resulted in an extensive portfolio of GRP profiles, such as U profiles, box-section profiles and angle profiles. We hold many of these profiles in stock. As standard, our profiles are grey in colour.

Continuous quality control

Thanks to many years of experience of producing GRP profiles, our products are guaranteed to be of a consistently high quality. However, quality must be checked on a permanent basis. krafton® performs in-house tests using advanced ZwickRoell material testing systems and other equipment to assess the mechanical performance of our profiles and planks against the specified standards.
krafton® applies a well-designed and proven quality management system to monitor quality throughout the process, from the selection of the raw materials right up to the finished product. In addition to quality checks in the factory, SKZ performs a six-monthly external audit of the production facility and processes. This is an extra guarantee of reliability and quality.

Glass fibre-reinforced plastic profiles from krafton®: the material of the future

The use of composites in construction has many advantages: they are light, quickly installed, require little maintenance and are very durable. GRP is much more environmentally friendly than people generally realise. In addition, this material is extremely cost-effective. Many other materials have an environmental impact throughout the value chain: starting with extraction of the raw materials, followed by transport, processing and the production process and then transport to the company that creates and fits the end product. krafton's® activities have a much lower environmental impact at all stages of the value chain. For example:

- Glass fibre production requires 75% less energy than steel production.
- Glass fibre structures are up to 75% lighter than steel. As a result, 50% less energy is required for transport and assembly.
- GRP's CO_2 equivalent is less than half that of a concrete bridge and approximately a third of the CO_2 equivalent for a steel bridge.
- Hardly any harmful by-products are generated during production. Pultrusion takes place in a fully closed process that minimises the evaporation of volatile compounds.
- Laboratory tests show that the expected lifetime of GRP profiles is 50 to 100 years, and in some cases even longer.
- GRP is 100% recyclable and can be reused in many different applications.

krafton's® guaranteed return policy

Glass fibre-reinforced plastic is an extremely sustainable product with an excellent life cycle analysis. In order to promote the cradle-to-cradle concept, krafton® guarantees that it will take back all the GRP profiles it produces. As a result, we can arrange for the profiles to be reused or have them recycled in an environmentally responsible manner.

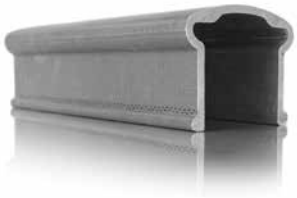
krafton® GRP box-section profile

krafton® GRP U profile

krafton® GRP angle profile

krafton® GRP I or H profile

krafton® GRP strip



krafton® GRP railing profile

Other profiles

Also available: GRP Z profiles, roof edging profiles, roof gutter profiles, corner profiles, box section profiles with three cores and tube profiles.

GRP custom profiles

Custom products account for more than half of our production

krafton®, the pioneer in the field of pultrusion profiles, will always help you find the GRP profile that matches your requirements. By manufacturing our glass fibre-reinforced polyester profiles in our own production facility, we ensure maximum flexibility. We continuously improve the quality of our GRP profiles by incorporating the most modern materials and technologies available in our work processes. As a result, we always meet your specifications and strive to exceed your quality requirements.

GRP profiles to order

We produce custom profiles according to your specifications, and in the required quality and colour. With our pultrusion machines, we can make profiles up to a maximum width of one metre and a maximum height of thirty centimetres.

Principal advantages of glass fibre-reinforced plastic:

- maintenance-free,
- uniform colour throughout the profile,
- UV-resistant,
- high resistance to chemicals and corrosion,
- non-magnetic,
- excellent electrical and thermal insulation properties,
- high strength,
- low coefficient of expansion,
- fire-retardant (depending on product)

Four-step process for custom products

We make everything for you to order, in the required colour and in accordance with the highest quality standards. We review the options with you to select the most appropriate solution for your situation. krafton® helps you to define your custom GRP profile in a four-step process:

1. Intake interview

We analyse your requirements in an intake interview. During this interview, we explain the pultrusion process and discuss the technical possibilities with you. We also estimate project feasibility based on cost and our production capabilities. Our pultrusion machines enable us to produce profiles measuring a maximum of 1 metre wide and 30 cm high.

2. Profile design

If adequate preliminary feasibility can be demonstrated during the intake interview, we will produce a design for your profile. Based on the profile design, we will also design a mould. We will then send you our quote for the profile and mould.

3. Pultrusion process

If you award us the contract to produce your profile, we will send you a final profile drawing for your approval. Following receipt of the signed and approved drawing, we will order the mould. Once the mould has been delivered, we will invite you to attend an initial production run of the first few metres of the profile for test purposes. Following acceptance of the profile, production can begin. The entire procedure, from the initial order to production of the first few metres of profile, takes 12 to 16 weeks.

4. Post-production operations

In many cases, a profile has to be cut to size, mitred, milled or drilled. We can also perform these operations for you. We have automatically controlled sawing machines, milling machines and a machining centre at our disposal for these tasks.

GRP bridge decking planks

Customers throughout Europe put their trust in us thanks to our extensive experience

With a track record of more than twenty years in glass fibre-reinforced plastic bridge decking planks and structural profiles, krafton® is one of Europe's most experienced suppliers in this field. This is demonstrated by the many quality certificates and quality labels awarded to the company. We are the market leader in our home market, where we have a share of about 80%. Demand from other European countries is growing strongly, largely thanks to the DIBt and EBA approvals we have obtained for our GRP bridge decking elements. All our bridge decking planks have been assessed based on the Dutch Buildings Decree and comply with the NEN 19912 standard.

Fitting methods

In recent years, we have continuously researched how to improve and simplify the fitting methods for our bridge decking planks.
We have developed a total of twelve fitting methods, all of which are DIBt-certified.

- These fitting methods must be used to ensure safe and durable fitting of the bridge decking elements.
- Depending on the nature of your project, you can select beam clips, metal plates, PE blocks, steel angle profiles, GRP angle profiles, etc.
- Our bridge specialists will also suggest suitable and safe solutions for securely fitting the bridge decking planks in exceptional situations.

Please contact us to find out more.

We will be delighted to discuss the possibilities for your specific situation with you. If you send us your drawing in advance, our bridge decking plank specialists will be able to provide reliable and fast advice. For more information about the twelve fitting methods, please refer to our website. Each method is explained in detail there.

Non-slip coating

krafton® glass fibre-reinforced plastic planks are coated with a TÜV-tested non-slip and wear-resistant material. This coating complies with the R12 and R13 floor slip ratings and class E fire resistance (according to EN13501-1:2007+A1:2009 and ISO 11925-2:2010).

NEN EN 1991-2

We manually apply all the wear-resistant coatings to the plastic planks in our factory. This means that we can apply the type of coating you require without unnecessary complications. We also offer a broad range of anti-slip surfaces, both in terms of colour and grain size.

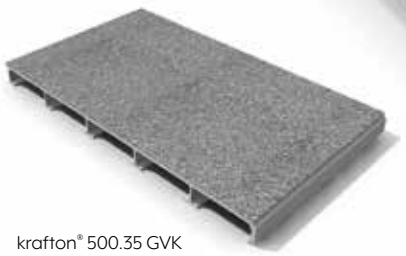
Range of TÜV-certified wear-resistant coatings

Range of bridge decking planks

krafton® 256.40 GVK
bridge decking plank

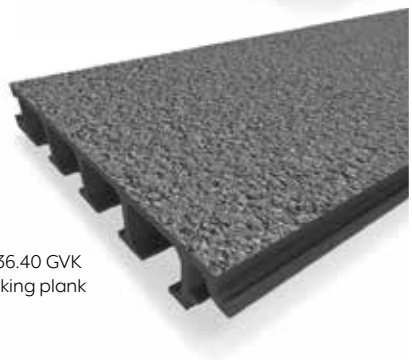
krafton® 400.85 GVK
bridge decking plank

krafton® 500.40 GVK
bridge decking plank



krafton® 500.35 GVK
bridge decking plank

krafton® 500.55 GVK
bridge decking plank



krafton® 236.40 GVK
bridge decking plank

made by

krafton®
VAN BIJL

GRP PROFILES


SWIMMING POOLS


RAILWAY


AUTOMOBILE INDUSTRY

GRP **BRIDGE DECKING** PLANKS


CANAL BRIDGE

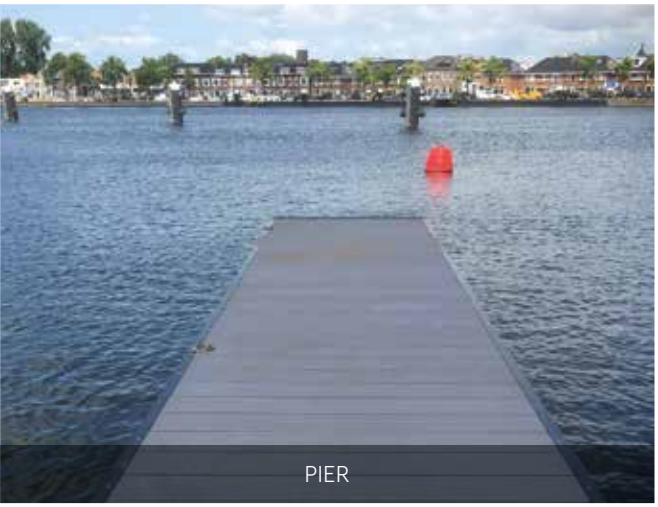

BRIDGES IN THE NETHERLANDS

CENTER PARKS AQUA MUNDO

COOLING TOWERS

THRESHOLDS

CUSTOM GRP PROFILE



PIER

BRIDGE IN HISTORIC VILLAGE CENTRE

krafton®
VAN BIJL

krafton®
Markweg Zuid 34, NL-4794 SN Heijningen, Netherlands
T +31 (0)167 52 17 17, F +31 (0)167 52 18 18
info@krafton.uk, www.krafton.uk