



Sustainable solutions from recycled plastics

Do you prefer safe and reliable material that does not require maintenance? In that case you need not look any further. Ever since 1975 Lankhorst Recycling Products have been supplying innovative products that are made from recycled plastics and that fit into a green and sustainable environment. As well as synthetic poles and planks we also produce complete landing stages, pilings, picnic sets and bridges. We offer custom-made sustainable solutions in recycled plastic.



How it all started

In 1803 Nicolaas Jurjan Lankhorst started a factory named "Lankhorst Touwfabrieken". The rope that was produced was not only applied for agricultural purposes, it was also used in shipping. During the 1960's the first synthetic yarns were introduced to the market. Tensile strength and elasticity of these new materials outperformed the properties of natural fibres and further the new materials were moisture resistant and had floating capacity.

In 1964 Lankhorst also started to produce synthetic yarns and residuals from that production process were used again to manufacture new products. The material was cleaned, shredded and used to produce synthetic poles and planks. Lankhorst kept on developing more and more and started to also process other synthetic materials such as bottle caps and agricultural film. This is in short the history of how recycling began.

Lankhorst Recycling Products

Now, more than 35 years later, Lankhorst Recycling Products have gained enormous knowledge and experience concerning production processes, materials compositions and application possibilities. Our poles and planks are the basis for a wide range of applications varying from street furniture, ground reinforcement and garden applications to marine engineering. This is for example shown

in our picnic sets, diamondhead bollards, grass verge paving stones, decking, fencing, fenders, bridges, sheet pilings, façade panels, pile planking and landing stages. The brand name for these products which are made from 100% recycled plastics is KLP®. Customers include marinas, local authorities, industrial companies, recreational organisations, architects, building and landscape contractors.



Advantages of a large family

Lankhorst Recycling Products is part of the Royal Lankhorst Euronete Group which was established in 1998 after a merger between the Portuguese Grupo Euronete and the Dutch Lankhorst. The group was created in order to take full advantage of international opportunities. At the bicentennial of

Lankhorst in 2003 Her Majesty the Queen of the Netherlands granted the group the predicate "Royal". The Royal Lankhorst Euronete Group expanded from a regional

family owned company into a worldwide operating company with leading positions in many different markets including ropes, industrial yarns, fish netting, reinforced composites and recycled plastics. We exchange knowledge and ideas and create synergies for joint developments.



What are our priorities?

Reliability

From the very beginning we have been supplying innovative and sustainable products made from recycled plastics. The whole production process – from raw materials to the manufacturing of

end products – is kept into our own hands. This is your guarantee for quality! And as each KLP® product can be reprocessed again at the end of its life, the circle of recycling is closed: the closed loop principle.



Innovation

We can also offer you a total solution, bespoke projects that involve construction parts such as bridges and landing stages. We have our own experienced project managers who have the knowhow and expertise. We provide specifications and advice, and we calculate, design, produce, assemble and install.

An important development for Lankhorst customers has been the introduction of reinforced recycled plastics with steel by means of a patented production process. This makes it possible to construct bridges

and landing stages with a much larger span. Compared to traditional constructions fewer components are required. This results in reduced material and construction costs.

Many of our new products are developed according to specific requirements obtained from our customers. Our R&D department translates these wishes into new productions concepts, recipes and production methods. We look forward to cooperating with you in finding even better solutions for any ideas or technical issues you may have.

Sustainability

Safety, environment, product quality and quality for people. Our goal is to constantly improve our organisation and services according to the principle of sustainable enterprise.

In order to guarantee this we have been certified according to the following international standards:

- ISO 9001: 2008 (Quality)
- OHSAS:18001:2007 (Labour conditions)
- ISO 14001: 2004 (Environment)

In our organisation 'People, Profit and Planet' are in balance with each other.

The 'People' component even has another extra interpretation: Three years ago Lankhorst introduced to its production facility an in-house social (sheltered) workshop known as Empatec. This workshop provides possibilities for many standard products to be customized by means of sawing, milling and assembling. These activities have been integrated into our primary process.





KLP® and its strengths



Sustainable and maintenance free

KLP® material is very strong, it does not rot and will last decades. KLP® can simply be cleaned and does not require painting. These issues will become more and more important when it comes to 'Sustainable Procurement' and 'Total Cost of Ownership'. As the material will last over 40 years and requires almost zero maintenance. You will see significant reductions in life costs after using KLP®.



Safe and environmentally friendly

As KLP® products are made from recycled materials, waste streams such as bottle caps, crates and agricultural film can be turned into bridges or landing stages with a long life. KLP® is not impregnated and will therefore not exude toxic substances into the environment, all of which contributes positively to a cleaner environment. Furthermore KLP® material is extremely safe, it does not splinter and - especially in wet weather conditions - anti slip properties can be up to twice as high as wood. We produce decking that is not slippery and will not splinter so you can walk barefoot without any concerns.



Charming plastics

KLP® material has the charm of and processability similar to that of wood. KLP® can easily be sawn, drilled, planed and screwed. And after years of sunshine, rain and frost KLP® will still look as new as it is UV, water and weather resistant.

Durable and environmentally friendly

References



KLP® Arched suspension bridge - 'Gemeente Opmeer' (NL)



KLP® Landing stages - 'Gemeente Almere' (NL)



KLP® Combi-pile planking - marina 'Jachthaven Akkrum' (NL)

Reasons to choose KLP®:

- Sustainable
- Durable
- Environmentally friendly
- UV, water and weather resistant
- Maintenance free
- Easy to process
- No rotting, no splintering
- Easy to clean
- Recyclable



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