MANUFACTURER OF ADVANCED COMPOSITES
THE UK’S LEADING MANUFACTURER OF EXTRUDED WOOD POLYMER COMPOSITES (WPC)

Located in Wrexham in North Wales, Vannplastic, is a UK Manufacturing company that has been designing, manufacturing and marketing advanced Wood Polymer Composites (WPC) since 2006. Recognised as a leader on the UK market in WPC, in recent years Vannplastic has expanded its range of material profiles to support the growing sustainable construction materials market.

Today, this expansion of the range allows Vannplastic to cover a broad range of solutions for construction material applications where a solid cross section of WPC is required.

With an on-site R&D and Technical team, we can provide products to match your application needs using our Wood Polymer Composite blended from recycled hardwood flour and HDPE. The product range is fully recyclable and is supplied under a Chain of Custody process that provides full traceability for all our products.

Our production techniques lead the industry with their ground breaking sustainability coupled with a strong commitment to local biodiversity work. What’s more Vannplastic WPC is produced in a carbon negative process which underpins our ethos of pursuing sustainability in our design and manufacturing operations.

Vannplastic WPC offers a high quality recycled, durable, sustainable and low maintenance alternative to timber. Currently used mainly for outdoor applications, we manufacture a range of extruded profiles that are used in sub structure, decking, balustrade and fencing applications amongst others.

As part of the design partnership for custom profiles, our technical team will make our engineering office available to work in tandem with our customers in the design of any new component profile. Our design engineers use advanced software to design any new technical element, together with the R&D laboratory on site, we have a team experienced in materials engineering who are highly qualified in the chemistry and physics of materials.
EUROPEAN RESEARCH & DEVELOPMENT

Vannplastic have an impressive background in the research and development of its products. Investing heavily in our laboratory and facilities, we continuously strive to enhance the recycled portfolio of our products, whether it is by using alternative recycled materials, or further improving the properties of our current products. To help facilitate this, we are part of EU Research programs that help create new materials and helps develop new technology and production methods.

Horizon 2020 is the biggest EU Research and Innovation programme, with nearly €80 billion of funding available. Horizon 2020 will support projects that have the potential to create real impact and growth for Europe and tackle major European issues. The programme is a Europe 2020 initiative aimed at securing Europe's global competitiveness which has the political backing of Europe's leaders and the Members of the European Parliament.

Vannplastic and Ecodek are very proud to be part of three Horizon 2020 funded projects, namely FISSAC, GelClad and Smart Plant.

The overall objective of FISSAC project is to develop and demonstrate a new model towards a zero-waste approach within the industries of the construction value chain.

Vannplastic and Ecodek will support the overall reduction of general construction waste by incorporating secondary raw materials with our traditional raw materials that could lead to material enhancement to improve our product range.

GelClad is a project created to develop a cost-effective and highly energy efficient cladding system that can be fitted to new buildings or retro-fitted to existing ones. The new lightweight multi-component system incorporates both thermal insulation and weatherproofing and will provide an extremely efficient passive insulation solution, including ventilation functionality. The role of Vannplastic and Ecodek in the GelClad project is to co-develop and manufacture the composite part of the system. Vannplastic and Ecodek are also responsible for production and distribution of GelClad for northern Europe, including the UK, German and Netherlands markets.

The third of the Horizon 2020 projects is the SMART-Plant project aimed at modernising wastewater treatment plants by recovering waste materials that are traditionally lost. The new, automated systems will optimise the wastewater treatment, resource recovery, energy-efficiency and reduction of greenhouse emissions and recover materials including biopolymers and cellulose.

Vannplastic and Ecodek is working together with several institutions, including European Universities towards developing bio-composite materials that can be used towards manufacturing of building products.

VANNPLASTIC ADVANCED COMPOSITES

With a standard range of WPC profiles and OEM custom design service available, Vannplastic can give your business advantage with tried and tested product development, innovation and production technology experience.

To see how your business can benefit from increased productivity and profitability, please contact our OEM solutions team and they will work with you to develop the best WPC profile solution for your business needs.

For more information on any of our services contact us on 08547 365 874 or email info@vannplastic.co.uk
Alongside our standard range of WPC profiles, we are able to provide a full OEM service to find an optimal solution to your specific technical needs helping you develop higher performing, lower cost solutions for your products.

**OEM WPC PROFILE RANGE**

- **38 X 88MM PROFILE**
- **40 X 48MM PROFILE**
- **19 X 44MM PROFILE**
- **19 X 136MM PROFILE**
- **25 X 136MM PROFILE**
- **21 X 136MM PROFILE**
- **SHELL PROFILE**
- **19 X 150MM CLADDING**
- **POST CAP**
- **88MM SQUARE POST**
- **BESPOKE PROFILE**