

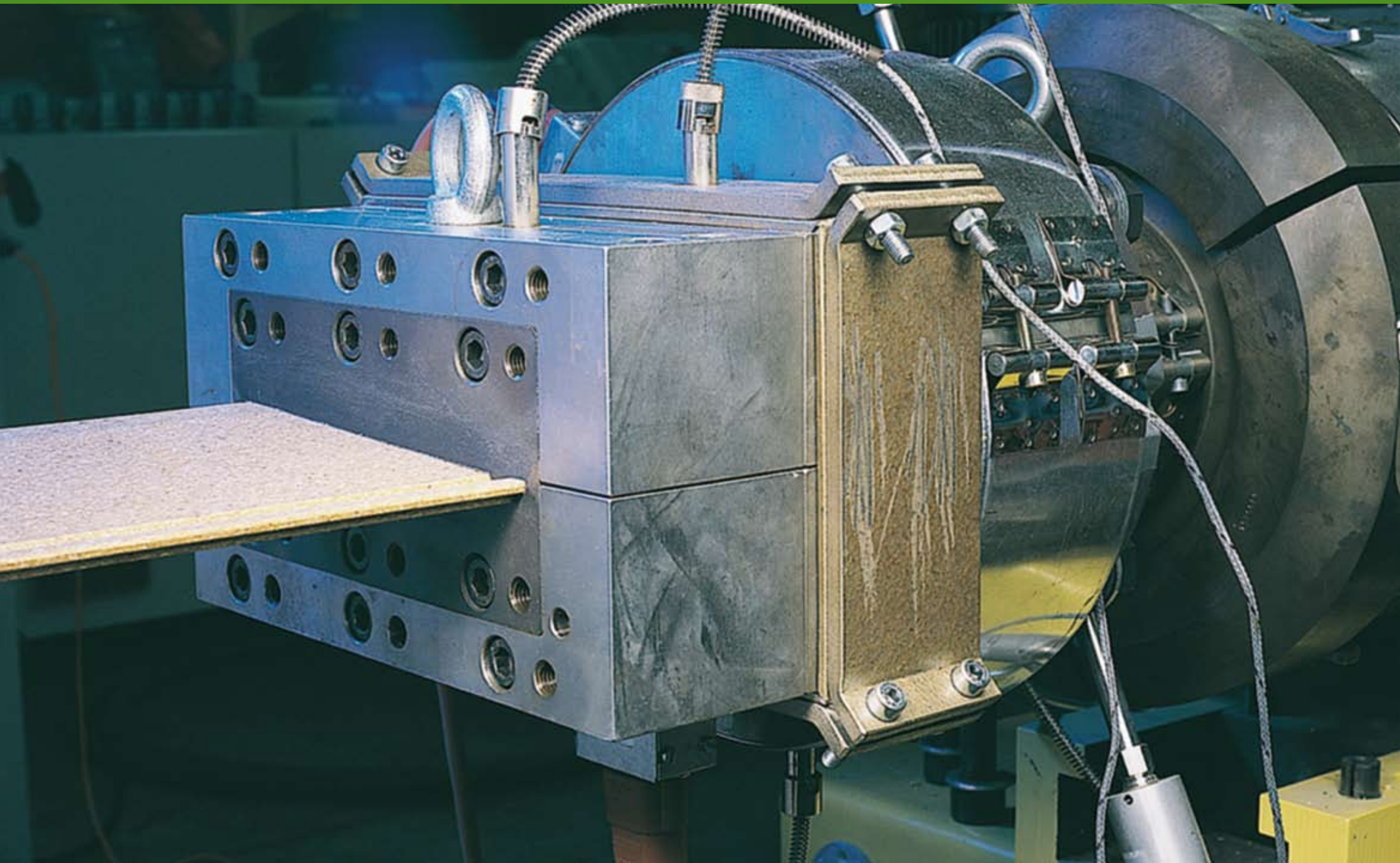


Tech-Wood Licensing, your Future in Wood!



Tech-Wood
more than wood

The difference in Wood Polymer Composite



Our involvement in wood composites began while building a boat in 1993. I was having a replica of a sea-going, fishing, sailing boat built from the late 19th century, a so-called lugger, which was traditionally made out of oak. My aim was to replicate this ship according to its original specifications but would require a minimum amount of maintenance, combining traditional craftsmanship with modern technology. Although many ships have been built in reliable wood/epoxy-systems since the late sixties, this technology proved to be insufficient when it comes to fulfilling the current requirements of renewable resources, recycling of materials and its environmental impact, which are aspects of increasing importance for products in the building trade. My connection to the building trade was the plastic pipe business, in which I was active for most of my life. At that point, the idea of using the advantages of wood composites was born.

The challenge was to make use of a fast growing, non-durable wood species (either virgin or from scrap) and transform it into a durable wood composite by the use of a recyclable thermoplastic. This new technology should be suitable to manufacture products for outdoor/indoor use, with minimum or no maintenance, a high bending stiffness comparable to wood, a minimum of creep deformation and a long life span of at least 50 years. Furthermore, the products ought to be paintable, recyclable, environmentally friendly by product as well as by production and competitive to hardwood in price.

During the first three years of the development, numerous tests were performed to investigate formulations, extrusion techniques, design of screws, dies, and methods for fibre drying and fibre orientation. The latter aspect proved to be of a great importance as it became clear that only orientated fibres could fulfil the objective of a high bending stiffness and strength.

The development took far longer than expected. Although within a short period of time common wood composites (WPC) could be made, the set goal in strength and durability proved more difficult to achieve. By the end of 1996, after three years of development, the potential possibilities became clear and a pilot plant started. It would take another 3 years in technology improvements and a further two years of field tests before starting production on a commercial scale in 2002.

Dick van Dijk
Tech-Wood International Ltd



Tech-Wood[®], a proven technology



Today Tech-Wood Nederland BV, the first licensee of Tech-Wood International Ltd, is one of the leading manufacturers of high quality Wood Polymer Composite products worldwide. Tech-Wood® products, a result of the highest standard WPC production technology combined with top quality wood-fibres and virgin polypropylene, have proven themselves in various applications.

It is our objective to remain a leading player in our markets. A lot of attention, in close cooperation with Tech-Wood International Ltd and under the protection of its patents, is paid to product development and process improvement. This enables us to keep a head start in technology and application.

The market for WPC products is fast growing and the potential for Tech-Wood® applications is immense. It is in this environment that we choose to focus on adding value where durability is asked and timber is the existing solution. Either commodities, special products or custom made products.

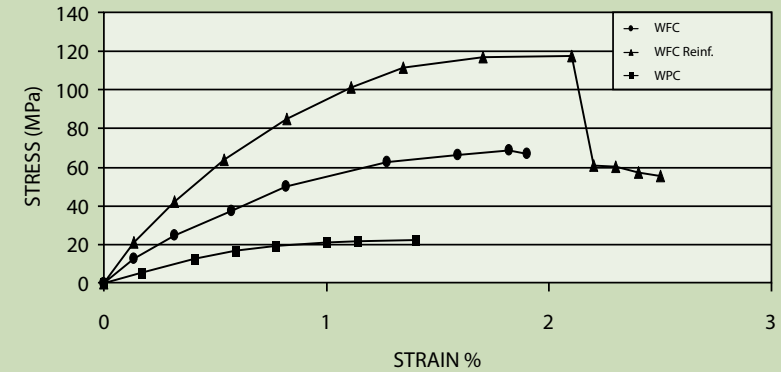
Tech-Wood Nederland B.V.

New technologies such as Reinforced Load Bearing construction profiles and Sea or Flood Defence products....., the applications are endless due to the high strength (E module 6000-12.000 Mpa) and a high (orientated) Wood Fibre content (72%-75%).

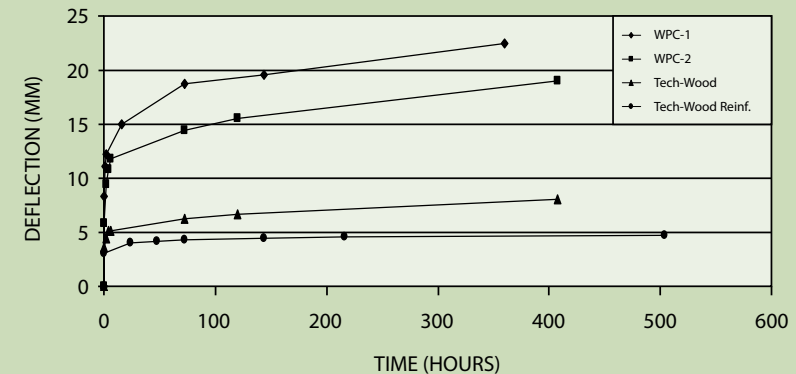
The believe in the future of Wood Plastic Composite, especially in the Tech-Wood Wood Fibre technology, and the commitment of Tech-Wood International Ltd in building further upon this State of The Art Technology, along with the experience and success of Tech-Wood Nederland BV in the European market, was decisive for Tech-Wood to adopt this technology by becoming a licensed Tech-Wood manufacturer.

Tech-Wood USA LLC

MECHANICAL RESPONSE IN BENDING



FLEXURAL CREEP OF PROFILES



New Markets on the spot with Tech-Wood Licenses



Decking, Railing, Cladding, Fencing, Sheet Piling, Reinforced load bearing construction profiles, I Joist, Scaffold Boards, Window and Door frames, Fire retardant profiles, ...

Tech-Wood International Ltd. offers you a patented technology with a non-abrasive formulation to manufacture wood like products with a proven durability, outstanding mechanical properties and a constant quality at a competitive price.

Due to the high content of 74% orientated Wood Fibres and the use of virgin Polypropylene (22%) Tech-Wood® compound ensures, together with the patented high output pushtrusion technology, stronger profiles at a lower cost in material and production.

Your Tech-Wood License :

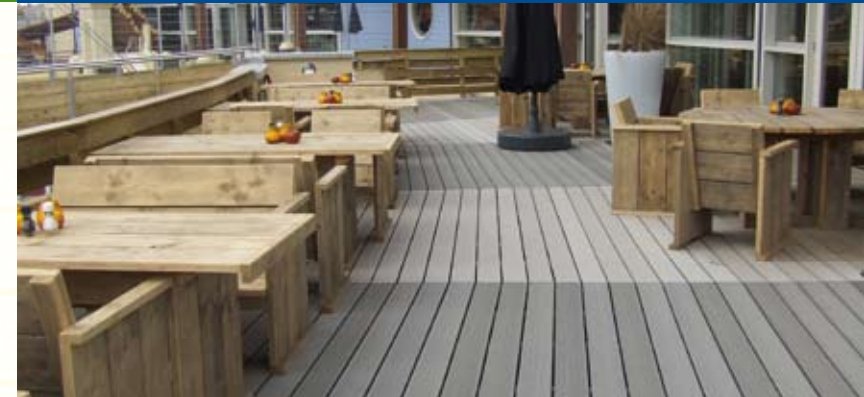
- Technology transfer and Training
- Coordination of Equipment purchase and Feedstock
- Assistance Plant Lay-out
- Monitoring of quality and output
- Supplementary product development
- License protection by Patents and Patented applications
- Area protection

Our Tech-Wood Licensee:

The plastic extrusion manufacturing company interested in entering new markets with a proven technology.

The Tech-Wood License options:

- Profile production with the supply of compound
- Profile production incl. fibre production and compounding, depending on the availability of the suitable wood in your area.





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