

Engineered Wood Flooring - Our Manufacturing Process

There are four main categories within the production process of our engineered wooden floors:

1. The Substrate
2. The Hardwood Top layer / Lamella
3. Bonding
4. Finishing



The Substrate

The first step in the process is to cut Birch Plywood, which forms the substrate to width on the **Beam-Saw** (pictured left).



The Hardwood Top-Layer / Lamella

This is the labour-intensive part of the production process.

Firstly the hardwood is sawn to become both square and to the correct width, on the **Straight-Lining Machine** (pictured left).

It is then milled to the required thickness.



Deep-Sawing

The next step in the process is deep sawing on the **Band-Saw** (pictured left).

The lamella is then sanded on one face to produce a flat surface suitable for bonding.



Bonding - Adhesive

Adhesive is applied to the substrate by a **Roller-Coater** (pictured left).



Bonding - Hydraulic Press

The lamella is then placed on top of the substrate in the **Hydraulic Press** (pictured left) and the two components are then squeezed until the bond is cured.



Straight-Lining

The 'engineered boards' are now ready for the next process which requires straight-lining on the **Straight-Liner** (pictured left) prior to milling.



Milling

The engineered boards are put through the **Multi-Head Milling Machine** (pictured left) to produce the Tongue and Groove on the long sides of the floorboards, and milling to the required thickness.



Cross-Cutter

Engineered floorboards are cut to length / size on the **Cross-Cutter** (pictured left).



End-Matching

Tongue and groove is machined into the ends of the engineered floorboards on the **Double End Tenoner** (pictured left).



Final Sanding

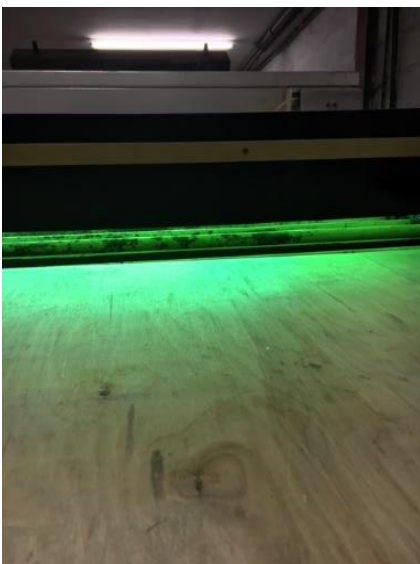
The floorboards then have knots filled and receive a final sanding on the **Finishing Sander** (pictured left).



Staining & De-Nibbing

Our engineered floorboards are now ready to be stained (if specified) and protected with a UV Oil. If staining is required, the stain is then applied.

The engineered floorboards then pass through the many brushes within the **De-Nibbing Machine** (pictured left) to smooth the hardwood surface as fibres can raise after being stained.



UV Finishing

The engineered floorboards then go through the final process UV Oil Finishing (protection) on the UV Roller-coater. This machine applies a specialist UV Oil to the hardwood surface and cures each floorboard in under 60 seconds, as it simultaneously passes through Ultra Violet curing lamp.

Manufacture is now complete and we have a completely finished product - engineered wooden flooring, ready for packaging and dispatch.

