

THE CORE CONSTRUCTION FOR ENGINEERED HARDWOOD FLOORS

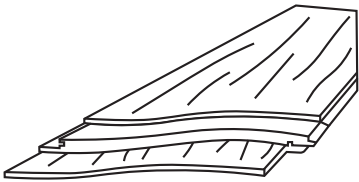
The core structure of engineered hardwood flooring is one of its most important features, as it affects the floors' stability, durability, and resistance to environmental changes. The core is the middle layer, situated between the top hardwood veneer and the backing layer. There are 3 major types of cores: Multilayer (plywood), Solid-Core (3-layer) and HDF.



Multilayer (Plywood) Core

Plywood core is composed of multiple layers of thin wood veneers glued together with the grain direction of each layer alternates, cross-ply construction, to provide high stability, resists expansion and contraction caused by humidity or temperature fluctuations. Durable and strong plywood can support all

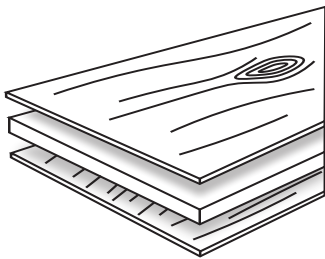
thickness face layer from 1mm to 4mm, either sliced or sawn cut. Plywood core performs better in higher-than-normal moisture environment.



Solid-Core (3-layer)

Solid-Core, 3-ply construction is one of the popular structures for durable premium engineered hardwood floors in the world. A top layer of precious hardwood lamella, a backing board and a core made from an eco-friendly fast growing wood species, in cross direction from top and bottom layer, allows the top and bottom

layer to expand and contract at the same rate to avoid warping, cupping and gapping due to changes in temperature and humidity. Solid-Core construction improves dimensional stability of wider widths and longer lengths planks. Solid-Core can only be produced with Sawn-Cut veneer that thicker than 2.5mm and best for 3-4mm applications, and it performs better in dryer environments.



High-Density Fiberboard (HDF) Core

The HDF core is made from wood fibers that are compressed with resin to form a dense, uniform board provides extremely resistant to dents and impacts due to its density. HDF core is the best solution for thinner veneer such as 1.5mm or less. It is dimensional stable, especially resistant to moisture. HDF core is a great budget-friendly option for engineered hardwood floors.

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