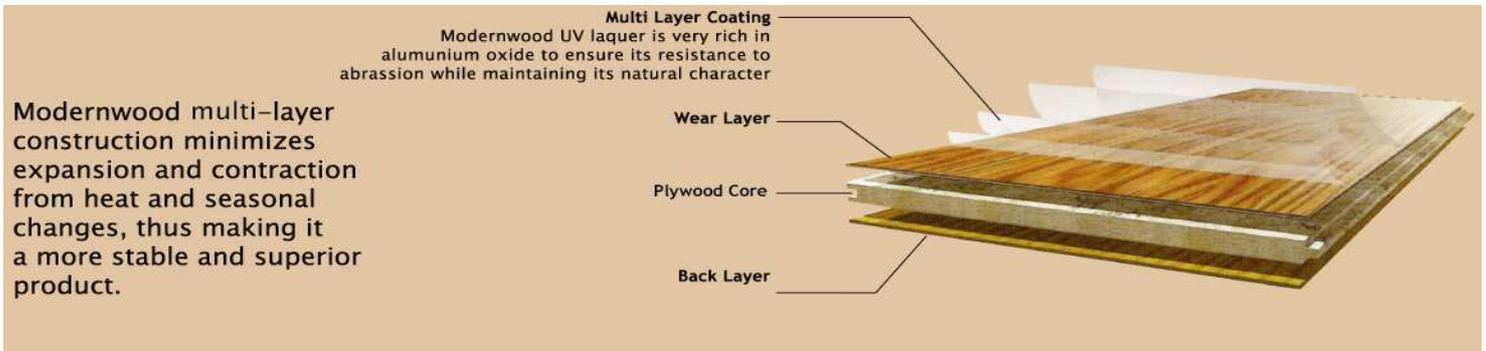


## FACTS YOU MAY NOT KNOW ABOUT OUR ENGINEERED FLOORING



- **HOW IT IS PRODUCED**

Sawn Timber received, from our own forest concessions and Australian Hurford Timbers, go through more than 30 days Kiln Drying process where it is heated up to 70° C until 7% moisture content is reached before being frame-sawed into veneers. The veneers are inspected for grading and then laminated to cross-laminated plywood core board and back layer. Next, it goes through a cold press and a hot press to strengthen and stabilize the construction. After the curing process, the boards are rip-sawed into planks. The planks are then sanded, and filled with putty, and then re-sanded again until a smooth surface is achieved. Coating process then follow, up to 12 layers of UV lacquer with Anti Scratch and Aluminum Oxide coating that provides optimum protection against wear and tear. Finally, the boards are cut with multiple profiling saws to create the Tongue and Groove profile. The finished planks go through a quality control inspection for surface finish, size and correct interlocking capabilities. Once approved, they are packaged and shipped out.

- **CHECKLIST OF FEATURES & BENEFITS WHEN BUYING ENGINEERED FLOORING**

	<b>MODERNWOOD</b>	<b>OTHER SUPPLIERS</b>
<p><b>STRUCTURAL WARRANTY : LIFETIME</b>                      Our product is made with a specially developed high-pressure bonding system to maintain its quality, and is guaranteed for life against buckling, warping, and delamination</p>		
<p><b>WEAR LAYER WARRANTY : 25 YEARS</b>                      Direct warranty provided by our German coating supplier KLUMPP Coating, the world leader in durable wood coating products.</p>		
<p><b>TIMBER LEGALITY : FSC CERTIFIED</b>                      With a total of 2.8 million hectares of its own forest concessions, our manufacturer gives complete assurance that it uses only 100% legally sourced logs from a sustainably managed forests. They are fully FSC certified, which is the “Mark of Responsible Forestry”. For Aussie timber material, our factory sources from HURFORD Timber Group, one of the largest timber supplier based in northern NSW, with full FSC and PEFC Certification.</p>		
<p><b>COATING TYPE : UV ALUMINUM OXIDE</b>                      Our product is protected with UV Aluminum Oxide coating that increases superior durability and abrasion resistance up to 10 times the standard urethane lacquer coating. UV Aluminum Oxide is also double the strength and wear layer than polyurethane coating used in Solid raw timber flooring. With UV Aluminum Oxide coating, no sanding and recoating is necessary until after 25 years subject to normal residential applications.</p>		
<p><b>COATING VOC : NO VOC EMISSIONS</b>                      KLUMPP Coatings are environmental friendly and non hazardous due to our zero emissions of VOC (Volatile Organic Compounds). Some factories, in order to cut costs, use locally-made coating chemicals that can be hazardous and toxic for human and pets.</p>		

## MODERNWOOD



### FACTORY QC CERTIFICATION – ISO 9001

All factories during production will always have some batches of finished products that do not pass Quality Control (QC). However, instead of disposing them or selling it as a “B” grade, some factories deliberately continue to sell as a standard quality product in order to maintain their profit. This is why some importers, especially smaller importers, sometimes get high quality product in one container and low quality product in the next container.

Our factory, PT. Kayu Lapis Indonesia, is one of the largest Timber Processing facility in Indonesia. Established since 1975, the factory manufactures several timber products including plywood, decking, furniture, doors, and wall cladding. We have a large distributor network in Australia where we have been selling our products for more than 35 years. Due to our strict compliance to the factory Standard Operating Procedures (SOP), our factory has been awarded with ISO 9001 Certification in Quality Management Control. We import over 100 containers of flooring per year into Australia nationally and we can assure our valued customers are getting consistently superior quality products.

### FORMALDEHYDE : E1 COMPLIANCE

In addition to Timber factories, our factory also own Glue manufacturing facility where they produce high quality Phenol glue for use in the multi-layer plywood core of our engineered flooring. Hence, we are able to better control and ensure that our glue is of the highest quality and will consistently comply with the E1 industry standard for gas emissions.

### MOISTURE CONTENT (MC) : UNIQUE TO EACH REGION

Each country has its own unique climate, and within the same country again different regions will have different climate (eg. Queensland is a lot more humid than Perth). Different climate means different MC level is required for the flooring. Unlike most factories that produce flooring at the same standard MC level regardless of different regions, our factory produces flooring at an MC level specifically cater to each different region (eg. Perth requires 9-10% MC, Queensland requires 10-11% MC).

This is very crucial because engineered flooring with the wrong MC level will have product failure. For example, if flooring designed for Perth climate is being installed in a more humid Queensland, then the Perth 9-10% MC will adjust to the higher humidity Queensland climate by expanding through moisture intake, until there is no more room to move except up, and this is called Warping and Buckling.

### JOINT PROFILE : TONGUE & GROOVE (T&G)

Our flooring is manufactured with T&G joint profile, which is better than Click system profile. Click System profile (eg. Unilin or Valinge) is purely designed for DIY installers because it is a faster installation as it requires no glue in the joint, however when the boards expand and contract, they will rub against each other and may cause Creaking / Squeaky noise when walked on it. On the contrary, T&G profile will require adhesive applied in the groove joint that limits the timber movement, hence will not have the Creaking / Squeaky noise issue.

### CORE CONSTRUCTION : MULTI-LAYER PLYWOOD

(See Above Diagram) Our engineered flooring is constructed with cross-laminated multi-layer plywood core that restricts the movement in timber, hence more stability against expansion and shrinkage. Whereas the standard 3-layer hevea core, which is a very soft timber, is constructed with gaps in the core allowing for expansion and shrinkage within the flooring, which may result in the bowing of the board and weakening the top veneer. Multi-layer Plywood is a more superior core material and it is the reason why in the solid raw timber installation, plywood is installed first over concrete floors prior to laying the solid timber (also referred to as Plank-on-Ply installation method) in order to achieve the best stability for the overall flooring.

### PLYWOOD CORE MATERIAL : MERANTI SPECIES

We use Indonesian Meranti timber as the material for our plywood core. Many factories, in order to cut production cost, use a soft and inexpensive timber such as Chinese Poplar species as their plywood core material for their engineered flooring. Due to its low density, soft Poplar plywood core material may result in the floor boards to bow and cup and thus not suitable for Australian climate.