



03. Technical Specifications

03.02 WHAT IS A WOOD FLOOR SYSTEM?

Wood floors come in many different forms and include the following:-

➤ PARQUET

Mosaic / Wood Block / Custom Classic Panels / Hand Made Geometry and Coronets

NOTE : In locations that will experience high humidity, intense sun light, air conditioned environments or extremes of “stress” will be produced within specific environments should always remember that any form of parquet which incorporates a **cross-directional** pattern, can **reduce potential problems** by exactly **50 %** by designing in parquet rather than any one-directional board floor, where all expansion and all contraction is in one direction across the width of the board.

➤ STRIP FLOORING

T & G Flooring, generally installed in one direction.

Either “secret nailed” (up to 85 mm wide) or “face nailed” (over 85 mm wide)

- **WIDE PLANK FLOORING** - T & G Flooring over 130 mm wide
(Requires more skill and expertise to avoid potential problems and understand necessary requirements)

➤ ENGINEERED FLOORS

NOTE : In locations that will experience high humidity, intense sun light, air conditioned environments or extremes of “stress” will be produced within specific environments and where a one directional floor is really preferred, should always remember that a quality engineered product will be a much more “stable” product than a solid board floor.

Because of the “engineered” construction these products are designed to resist cupping and curling that generally to perform much more stably than a solid wood floor in similar high stress environments.

Engineered products also incorporate a **cross-directional** method of construction which is designed to **reduce potential problems** especially in more extreme environmental situations.

Engineered floors are available in variety of possible forms;

- “Locked” System (no glue)
- T & G glued-together system
- fully glued-down system
- “Floating” Acoustical Plank system over a range of alternative Acoustical membranes.

A wood floor “SYSTEM” is that combination of selected timber specie/s, chosen for color and other attributes, put together with the best choice of sub floor construction methods, the best choice of PATTERN or DESIGN and the most desirable coating system, to provide clients with the very best combination of technical results and performance, in a given GEOGRAPHIC LOCATION and /or ENVIRONMENTAL CONDITIONS.

➤ **GEOGRAPHICAL LOCATION and ENVIRONMENTAL INFLUENCES**

As natural timber is hygroscopic, it is continuously taking up and giving off moisture to keep in balance with the environment in which it is placed. These changes also alter the state of the timber, as the natural process of expansion and contraction takes place continuously, through a range of seasonal and climatic conditions.

Very dry geographic locations and locations around the harbor, coast or large bodies of water, each require different consideration when designing for wood floor systems.

Air conditioned environments require different consideration from those that are not air conditioned.