Uses for DuraWood

**CLADDING, SIDING & FAÇADES**

DuraWood® is suitable for siding and facades and is the ideal choice where aesthetics and less frequent maintenance are critical. The dimensional stability, durability and natural UV resistance, alongside the lower maintenance requirements on coated products, combine to decrease overall life cycle cost on projects.

DuraWood® and its range of many sizes mean it can be produced in any profile required to obtain your required appearance.

**WINDOW FRAMES, DOORS & GATES**

DuraWood® has low thermal conductivity and is more durable and dimensionally stable than other woods thus improving the performance of windows and doors during changes in climatic conditions. This increased stability minimises expansion of the wood and ensures that doors and windows will always open freely. Its low density makes it the ideal choice for use as external gates resulting in less weight on hinges. It is produced without the use of any chemicals or preservatives, using far less energy than other artificial materials.

DuraWood® wood is naturally attractive with subtle Iroko / Teak colouring and grain. It can be opaque, translucent or transparent coated.

DuraWood® and its lower maintenance requirements increase its cost effectiveness.

**OUTDOOR FURNITURE & EQUIPMENT**

DuraWood® is an ideal choice for tables, chairs, tree houses, play sets, planter boxes and animal shelters because it is non-toxic and able to withstand the rigors of different weather conditions.

**EXTERNAL LOUVRES / BRISE SOULÈS**

In specifying External Louvres, natural beauty, stability and all-weather performance are very important. DuraWood® is the perfect choice for this application. Its dimensional stability and natural durability result in a product that can be machined into any profile. It will stay flat, will not warp, twist or rot during performance. DuraWood® Louvres can be left natural to weather to a uniform grey appearance or they can be opaque, translucent or transparent coated with lower maintenance requirements than other timbers.

**INTERNAL JOINERY**

DuraWood® is the perfect choice for use as an Internal Joinery timber. It machines beautifully and with its naturally rich and warm tones, similar to Teak / Iroko in appearance, it is very easy on the eye. With a full range of sizes available DuraWood® can be machined and manufactured into any profile or product used in internal joinery: Skirting, Architrave, Doors, Paneling, Handrail, Mouldings, Ceiling, Sheathing and tiling.

**Summary**

- Thermally modified hardwood
- Excellent stability and durability
- Attractive virtually knot-free look
- Naturally consistent colour
- Ideal for coating
- No chemicals used
- Sourced from sustainable forests

**Contact Us For More Information**

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DuraWood®-Natures Technology

Exclusive to DuraWood®, this unique process modifies sustainable sourced hardwood which produces a beautifully textured wood with outstanding durability and exceptional stability in service.

DuraWood® is produced using the latest thermal modification technology—applying heat (180 – 260 Degrees C), water vapour and pressure to the timber. This modification takes a period of 48 to 96 hours to complete (taking into account different thicknesses). The process is very environmentally friendly as no chemical substances are used during modification.

1. HARVEST

Our process begins with the harvesting of including grade omissions, all of which are sustainably sourced from FSC certified sustainable woodlands.

2. MILLING

Modifications

The process reduces the equilibrium moisture content (EMC) and gives the wood a warm appearance, with a consistency through boards.

3. HEAT 260°C & STEAM

Benefits - Wood Made Better

100% NATURAL

DuraWood® is free of any chemical substances.

ECOLOGICAL

DuraWood® is harmless to humans and animals. It is environmentally friendly, recyclable, strong, long lasting and produced from sustainable forests.

DURABLE

DuraWood® is suitable for use in external situations such as Cladding, Louvres, Windows, Doors, Fasico, Soffit and General Joinery.

INSULATING

DuraWood® offers 35% greater sound and insulation benefits when compared to non-modified wood.

4. PROFILE

Once inside the kiln, temperatures slowly increase to around 260°C, effectively drying the wood's moisture content to nearly zero. It is at these high temperatures that the chemical and structural changes occur in the wood that make dimensional stability properties possible. Once modified, steam is introduced into the kiln in order to recondition the wood by returning its moisture content between 6-7%. The entire process can takes up to 96 hours depending on the thickness of the Hardwood and doesn't allow for any shortcuts. The process is very environmentally friendly as no chemistries are used during modification.

Coating Suitability

Durawood® is a similar appearance to Teak and Iroko, with a beautiful brown colour with a contemporary appearance.

Durawood® has outstanding stability in service, with resulting in no cupping, movement or splitting. This makes it ideal when choosing a performing timber substrate that requires a clean, sharp and contemporary appearance.

Durawood® is a smooth, straight grained and virtually knothole hardwood which is perfect for any projects that require a clean, sharp and contemporary appearance.

Durawood® is frequently preferred by Architects to achieve the highest expectations of their design brief in appearance and performance.

Durawood® is a beautifully brown colour with a subtle figure. Once modified Durawood® creates a consistent look reminiscent of Iroko / Teak. When left untreated, Durawood® weathers more quickly than unmodified timbers, in a uniform and matte pronouuced way resulting in a beautiful silver grey appearance.

Durawood® is approximately 327 Kg/m³ of a moisture content of 6-7%, this low density, allows for ease of handling and greater flexibility in relation to installation.

Sustainability

Durawood® does not require maintenance and if left untreated, will quickly decay to a beautiful silver grey. Although there is no requirement for DuraWood® to be painted, in situations where appearance is required, the exceptional stability properties described above, this product is highly suitable for factory finishing through our irishmade Coater or other site applied coatings which we can advise on.

The coatings system will be subjected to less substrate movement and as a result the coating will last significantly longer than when applied to non-modified timbers. This in turn substantially reduces the maintenance requirement, meaning that the lifetime cost of the product is reduced.

Durawood® is FSC Certified and is therefore sourced from well-managed, sustainable forests.

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The thermal modification process changes the structure of the timbers, resulting in Durawood® having an extremely low, maintained moisture content of 6% (+/- 2%). The benefit of this is that it has a great effect internally. Excellent stability, low density and a contemporary appearance.

Results show that Durawood® has outstanding dimensional stability properties, making it suitable for a wide variety of project types including Joinery, Windows, Doors, Cladding, Internal and External Joinery.

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