



Envirowin
Composite WOOD windows, frames & doors

Eco WOOD Windows

Whether you are replacing your old, leaky windows, or looking for the perfect window for your dream home, you will find that ECO WOOD windows will give you unmatched quality, insulation and energy savings.

ECO WOOD windows and door frames are high-performance products that are more energy efficient, longer lasting, stronger, more aesthetically appealing and more eco-friendly than typical wood, aluminum or PVC windows.

Metal or aluminum frames tend to conduct a lot more heat than ECO WOOD. Wood has long-term durability issues if not constantly maintained,

The electricity used to produce aluminium is relatively high. 2.25kg of aluminium requires 6-8 kilowatt-hours of electrical energy. This amount of energy can be used to power a 11watt energy efficient light bulb for between 540 hours and 720hours

Eco Wood Windows are dimensionally stable having a low coefficient of thermal expansion, which is why eco wood maintains its integrity and minimizes warping or leakage in inside and outside temperature differentials.

Eco Wood is a composite structural material that consists of UV Stabilised Wood Composite consisting of a proprietary blend of 50% PVC and 50% Wood Flour. The PVC is non-lead stabilised, and therefore not toxic. The wood flour is sourced from saw mills as a waste product, that would have gone to land fill. Eco wood is bound together in a high strength-to-weight ratio, which resists warping and is resistant to environmental corrosion. It is not as heat conductive as other window compounds currently used in the window market.

Manufacturing Process

The product is manufactured through a compounding and extrusion process. The only Emission generated during the manufacturing process is steam.

Fire Retardancy

PVC is a self-extinguishing polymer, and therefore the product will not propagate fire without a heat source.

UV Stability

The product is UV stabilised through the addition of UV blocking agents. The life expectancy is expected to far exceed the guarantee period of 10 years. PVC is also a well known polymer used in the building industry for exterior applications. In-house field tests have been done on African sun exposure with decks already exceeding 6 years with minimal deterioration.

Colour Fastness

The product is pigmented with inorganic lightfast pigments and will have minimal fading after installation.

Expansion

As with all composite products, these will also expand and contract due to moisture and temperature variations. In-house expansion testing has shown an expansion of 5mm per 4m or 0.125%.

Other benefits of Eco Wood frames:

- Made of a sustainable material
- Low energy usage in manufacturing process
- Life cycle is decades – very stable & durable
- Expansion & contraction is less than wood, less than aluminum
- Accepts paint very well
- Highly recyclable, eco-friendly, saving forest resources
- with the look of the natural wood but less timber problems
- Moisture/Water resistant, No rotting of Eco wood
- less cracking, less warping,
- Requires no varnishing, low maintenance
- Weather resistant, suitable for all South African climate conditions
- Termites, insects, and moldy-proof
- Available in different colors
- Easy to install and clean

We talk green

- Ecowood is produced from Pvc and waste saw dust thus saving thousands of trees
- Composite Installation eradicates the use of toxic chemicals used for the treatment of conventional wooden windows
- lower energy levels are required for production
- Enviro win's, eco wood windows conforms to GAP standards
- (Green Architectural Product)

Eco wood is well established as the premium wood composite compound in South Africa, and is a proudly Developed South African product.

Whatever your project, installing EcoWood windows will ensure that you will be warm and comfortable. And you will be confident that your windows will save you money for years and years to come.