

EVA-LAST®

INSPIRED BY NATURE, DESIGNED FOR LIFE.

OUR PATH TO SUSTAINABLE LIVING

EVA-LAST® ENVIRONMENTAL IMPACT STANDARDS

20 July 2018



A PLEDGE, REALIZED.



Our Company Passion

Our slogan says it all; "Inspired by Nature, Designed for Life". In this simple line lies the heart and soul of Eva-Last®, and an insight into why we do what we do. We believe in the power of our composite products to have a positive effect on the environment and in our customers' lives.

The first half of our slogan pays tribute to nature and the awe-inspiring designs and functions that work alongside each other and have so successfully for millennia. Nature is the best example of sustainability we could offer you.

The second half, Designed for Life, We take pride in our reputation and the end product we offer our clients knowing that they truly can and will improve their lives. Our slogan is more than just a catchphrase; it's the summary of why we get up in the morning and do the work we do.

We can make a difference

In a time when we now have the technology to recycle waste products and convert them into functional and safe flooring boards that are superior in performance to traditional wood, why would we continue to destroy our forests the way we do.

Planet Earth is under threat. For far too long, humans have taken the earth and its limited resources for granted. Now we are beginning to feel the effects of our own ignorance and carelessness. If the earth heats even just two degrees more, we run the irreversible risk of destroying our own home.

We need to understand the ways in which our lives and businesses affect the environment negatively in order to reduce this impact and help to make a positive difference even if it is one small step at a time.



EVA-LAST® ENVIRONMENTAL PHILOSOPHY

Our philosophy in a nutshell

When you choose Eva-Last®, you are making a truly thoughtful choice for you and the environment. Eva-Last® Infinity™ offers a durable, low-maintenance bamboo composite that consistently outperforms timber and other composites.

Industry & environmental recognition

Eva-Last® has always been at the forefront of the green building industry and, since our inception in 2007, we have been continually and consistently improving our commitments to serving the environment and our clients.

We love trees

No trees are cut down for the purpose of creating Eva-Last® products. Eva-Last® uses only repurposed timber and bamboo, paired with high-quality recycled plastics.

Recycling at its best

Eva-Last® is an industry leader in utilising recycled plastics, which would otherwise end up in landfills and oceans. We transform this potential waste into striking and durable decking, railing and fascade products.

Out with the bad, in with the good

Eva-Last® products are free of toxic chemicals and preservatives normally used for the treatment of natural timber products.

Waste not, want never

In our factory, only the coffee grounds are tossed away. Every bit of quality, left over product is put back into the manufacturing line to be recycled and made into beautiful, useful decking surfaces.

Getting it there with “green” in mind

We go the distance to ensure our transportation channels have the lowest carbon emissions and smallest environmental footprint possible.

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GREENPEACE



“Eva-Last is making a significant contribution globally in green building products and methods.”



KUMI NAIDO, International Executive Director of Greenpeace,
Climate Change Leadership Awards (CCLA), 2011



PRODUCT AWARDS & CERTIFICATIONS

As Eva-Last® expands further into the global market, we consider and comply with all international green codes and expectations.



AWARDS

- 2009** Decorex JHB, Sundome / Decorex greenest product award
- 2010** Decorex DBN, Gallegar estate / Greenest product award
- 2011** CCLA Climate Change Leadership Awards / Silver award
- 2012** Decorex JHB, Sundome / Decorex product excellence award
- 2013** Homemakers award, Sundome / Green product award
- 2014** Decorex JHB, Coca-cola dome / Decorex product excellence award
- 2015** Decorex Durban, KZN Exhibition Centre / Greenest product award
- 2015** Homemakers award, Tickerpro dome / Decorex excellence award
- 2016** Decorex Cape Town, CTICC / Greenest product award
- 2017** Decorex JHB, Tickerpro dome / Decorex greenest product award

CERTIFICATIONS

-  GREEN BUILDING COUNCIL MEMBER ORGANISATION GBCSA Green Building Council of South africa
-  FSC FSC / Certified (2009)
-  CE CE / Certified (2009)
-  Intertek Intertek / Certification (2011)
-  ISO ISO / Certified (2013)
-  ASTM INTERNATIONAL ASTM INTERNATIONAL (2014)

Infinity™

CAPPED BAMBOO COMPOSITE DECKING

Infinity™ cap,
an engineered polymer

Core comprised primarily
of HDPE and bamboo fibre



Sustainable bamboo fibre



Recycled HDPE plastic



Bamboo is one of the fastest growing plants on earth and in some cases can grow fifty times faster than timber.



Eva-Last® recycles significant quantities of waste plastic that would otherwise end up in our landfills and oceans.

WHY BAMBOO?



SUSTAINABLE

Bamboo is a type of grass and grows and regenerates extremely quickly, with most species reaching adulthood within 3 – 5 years. This amazing plant is one of the most environmentally friendly resources on the planet and requires no pesticides or chemical fertilizers to grow. Bamboo keeps our soil stronger, our air cleaner and our environment healthier.



STRONG

Bamboo must be one of the most underrated materials on the planet when it comes to strength. It has a greater tensile strength (resistance to being pulled apart) than steel, and can withstand compression better than concrete. These properties make for an ultra strong end product and allow Eva-Last® to offer an industry leading guarantee on Infinity™ decking.



COOL

Bamboo is known for its incredible cooling effect and its ability to deflect heat more effectively than wood. All natural fibres have a built-in thermostat, and Mother Nature has turned bamboo's way, way down. This means your deck will be cooler in hot weather and a bit warmer in the cold, just another great benefit of using bamboo over wood in composite decking.



SAFE

Bamboo is a super clean and safe material and the perfect additive for composite decking. Bamboo naturally repels odor and is hypoallergenic when compared to timber. Bamboo as a fibre is actually certified by most food agencies as safe to eat. So your customers can rest assured that Infinity™ decking will be the cleanest, safest surface for them and their families.

WASTE PLASTIC IS KILLING OUR PLANET

A PLASTIC EPIDEMIC

Our world faces one of its greatest threats from our short-sighted consumption of single use plastics. Plastic is now the most common form of marine debris. Plastic enters the oceans from a number of different land and ocean-based sources and imperils all aspects of marine life. Once in the water plastic never fully biodegrades.

IN 2017 EVA-LAST® PRODUCED
ENOUGH COMPOSITE PRODUCTS TO SAVE THE EQUIVALENT OF
70 MILLION PLASTIC BOTTLES

RECYCLING ONE TON OF HDPE RESULTS IN CARBON DIOXIDE SAVING OF APPROXIMATELY 0.73 TONS - THE SAME AS TRAVELLING 4 000km IN A CAR.



EVA-LAST® RECYCLED THE EQUIVALENT OF TWO THOUSAND TONS OF PLASTIC IN 2017



Reduce, reuse and recycle

Eva-Last® promotes eco-conscious practices in all areas of business and life. Be responsible: reduce, reuse, recycle.



AVOID HARMFUL CHEMICALS

Timber is often over harvested at great cost to the environment. Harmful chemicals and sealants, like arsenic and copper compounds, are required to protect wood from insects, mold and moisture.

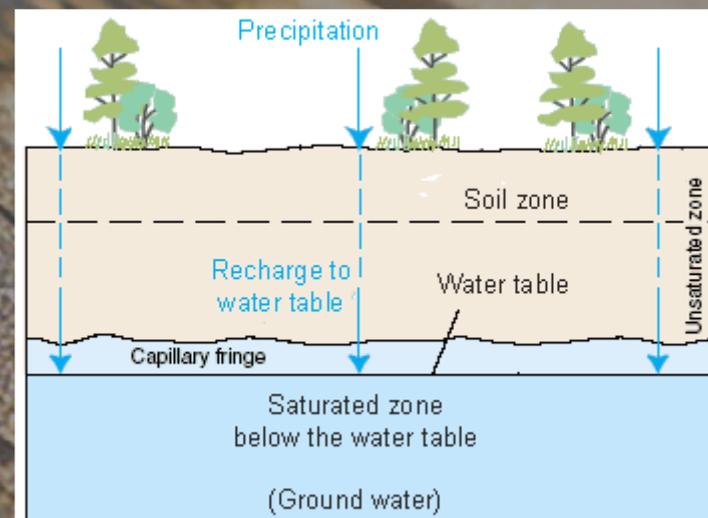
Always consider the environment when you choose materials for your project. Eva-Last® decking is completely VOC and formaldehyde-free. Our low-maintenance products do not require any dangerous chemicals or compounds, making them a cleaner alternative to wood.



SOIL CONTAMINATION

Organic soil is full of nutrients and is a place for both plants and animals to thrive. When deck treatments are used and come into contact with the soil, they will eventually seep into the ground water table. This will result in the contamination of the water system, harming the ecosystem and the plants and animals that live there.

Consider safe alternatives for outdoor flooring. For decking use a composite if you require this finish, alternatively use flagstone, slate or even concrete as timber has no safe defense against the elements and needs to be replaced more often these alternatives.





Infinity™

INFINITY™ IS 100% CLEAN



Eva-Last® Infinity™ and associated decking products are free of harmful chemicals.



Treated wood or the coatings applied to them may cause the soil and water around your deck to become contaminated. Infinity™ requires no poisons or harmful chemicals for treatment or maintenance.

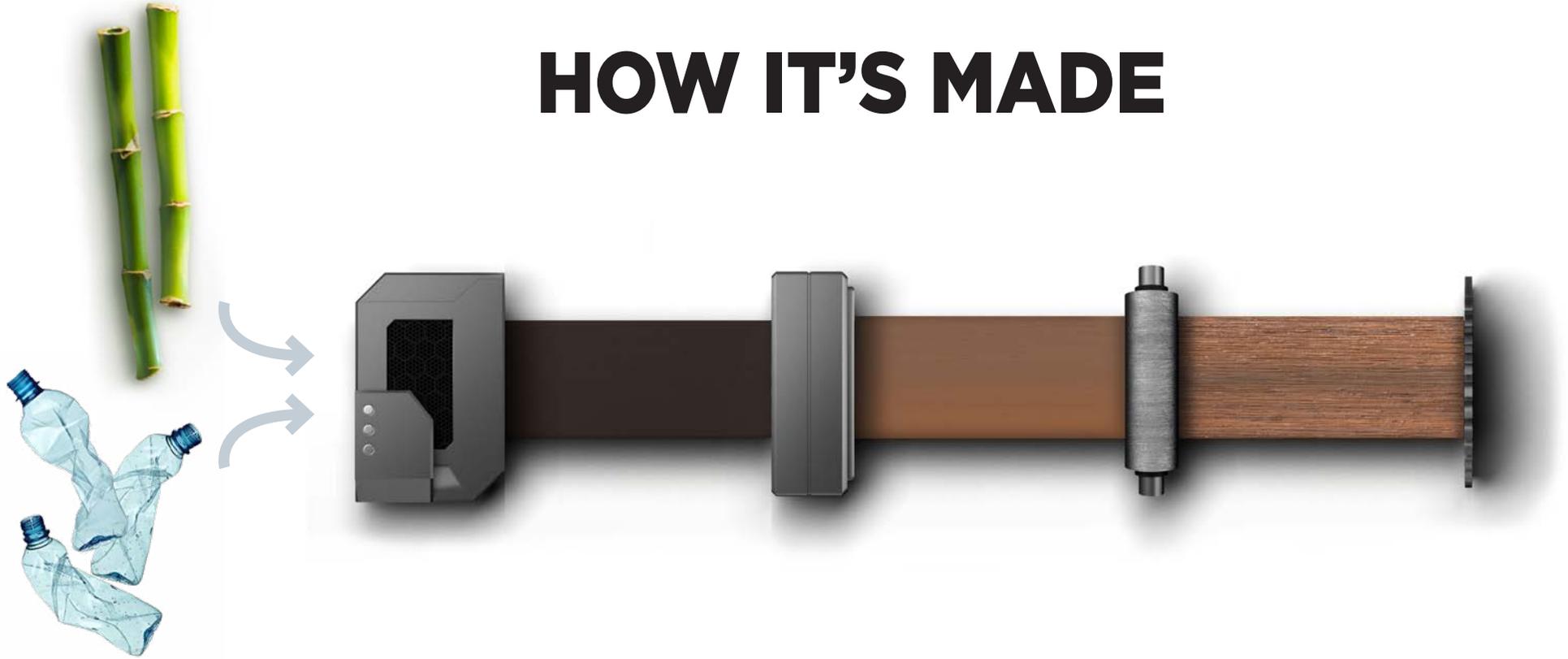


The bamboo fibre in the Infinity™ product is contained in a high density polyethylene matrix, giving the decking greater strength and safety features. Polyethylene is a thermoplastic (HDPE) that may be sourced as both virgin and recycled materials.



Standard Infinity™ materials consist of 40% HDPE and 60% bamboo fibre.

HOW IT'S MADE



1

Eva-Last® starts with a unique combination of bamboo fibre and recycled polyethylene pellets to create the ideal mixture.

2

Intense heat and pressure are applied to form a large, continuous block of composite material.

3

Each colour is artistically blended as the composite is molded into its final shape.

4

The dual-surfaced board is then embossed with two distinct grain patterns.

5

In the final stage, the co-extruded composite is cooled and then cut to length.



GIVING BACK

We at Eva-Last® see our business as an opportunity to better peoples lives as well as the communities we do business in. We actively work to support this important mission by focusing on local charitable and sustainable projects.

People

Besides making our children's future a little greener, we try to make it a little brighter as well. Twice a year Eva-Last® rennovates, rebuilds equipment and improves infrastructure at a local school or orphanage. We are a primary sponsor of South Africa's first orphanage to be built sustainably out of used shipping containers. We donated both time and materials to make these projects possible.

Planet

We consider the environment in all aspects of our company. Our production, processes and end products revolve around the basic mantra of reduce, reuse, recycle. We lead by example in the sustainable engineering and construction fields and educate those around us on the benefits of going green, hosting information sessions for contractors, developers and the public.

Our own use of recycled and repurposed materials saves countless acres from deforestation, keeping trees and animals in healthier ecosystems, where they belong.





Mohau Pre-primary School, 2017

Each year our Eva-Last® team visits a pre-primary school in a local South African township where we construct playgrounds and improve infrastructure for the students. The smiles on the children's faces bring us year on year.



OUR FORESTS ARE DISAPPEARING!

Every minute a forest the size of 20 football fields is cut down.
In 100 years there will be no more rainforests.

500 years ago, it is said that 60% of the Earth was covered in Forests. Now, there is less than 10% of our rainforests left.

Deforestation is when forests are processed by cutting down trees and using this precious timber for the creation of paper and building products. With more than 7 billion people in the planet, we need more land to build cities, raise livestock and grow food. People also make money by clearing the forests and selling the lumber and wood to be converted into other products, such as decking.

Eva-Last® saw the chance to create alternative forest friendly building products that would help to deminish the demand for tropical hardwoods used in decking, railing and other buidling materials.

We urge you to get involved, your contribution can help to make a difference in defeating logging. Please educate others and follow or support these trusted deforestation initiatives:

Rainforest Alliance: <https://www.rainforest-alliance.org>

Rainforest Trust: <https://donate.rainforesttrust.org>



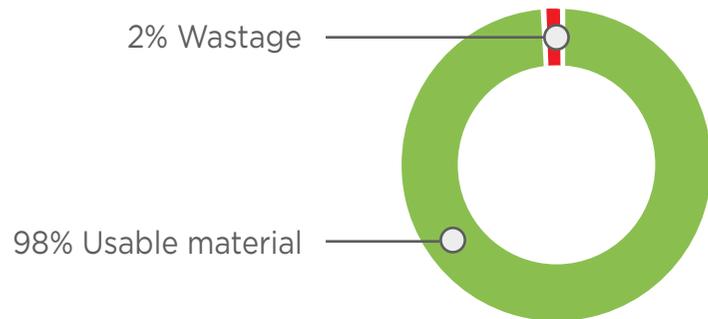
BAMBOO FACTS

- Bamboo is a member of the grass family.
- This grass can grow in just about any soil or climate.
- Bamboo contains natural antibacterial properties.

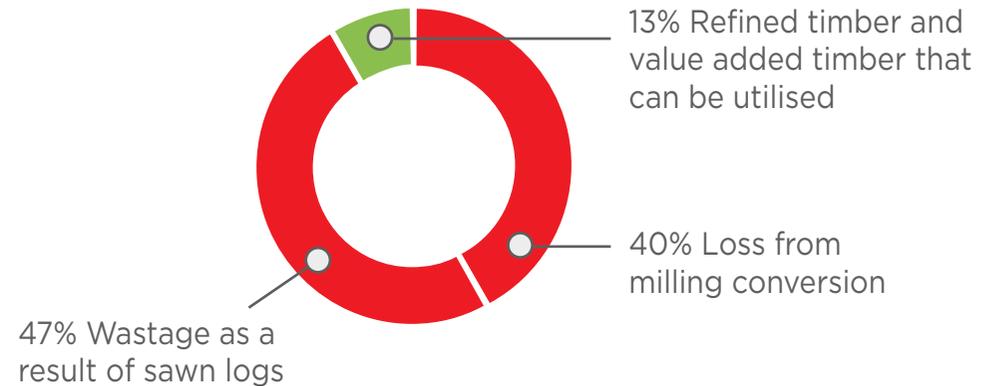
RAINFOREST FACTS

- Up to 28,000 species indigenous to rainforests can go extinct in the next quarter century due to deforestation.
- By the year 2030, we might only have 10% of rainforests left due to human interference.
- In the time taken to read this, almost 3 hectares of rainforest have been cleared.

BAMBOO USAGE



HARDWOOD OR SOFTWOOD USAGE



This is why Eva-Last® insists on using bamboo fiber. Felled bamboo is efficiently converted into usable products.

FACTORY TO BE 100%

SOLAR IN 2019

One of the prime instigators of global warming is energy production using fossil fuels, such as coal and oil. Fossil fuel production and emissions are responsible for as much as half the global surface temperature increase and roughly 30% of global sea level rise.

The process to make Eva-Last® products is a energy intensive one, undermining the true environmental ambition of the company. Something had to be done. In 2017, in the pursuit of true sustainability Eva-Last® proudly made the decision to take all production off grid and run completely on green solar energy. This allows Eva-Last® to further decrease its carbon footprint by cutting out non-renewable resources and replacing them with clean and sustainable solar power.

Eva-Last® now has one of the largest production plants of its kind in the world encompassing 135 000 sq/m of roof area which is ideal for a supersize solar installation. To take advantage of this green opportunity, our group of companies is currently installing an army of solar panels.



Eva-Last® and Anhui Sentai have a combined factory space of 135 000 m² which will be run on 100% solar energy by the end of 2020.





A SOLAR ERA

There is a huge offset in carbon emissions, that we achieve, through reuse of waste plastic and waste bamboo fibre. However, producing our products is still very energy intensive. We are a people Inspired by Nature, so for us this was a huge underling issue.

Running our operation on clean energy is the ultimate solution and one we are now very proud to be actively achieving.

46 000 kw/h

of energy per day, by the end of 2018

As of June this year Eva-Last® is already producing 20 000 kw/h of electricity which is powering part of our production and by the end of **2020** we plan to expand the installation to take the entire production facility off grid.

1 kg

 of coal to produce

2.64 kwh

 of electricity.

To give you perspective, 1 kWh of electricity, when produced from a coal burning power plant, will generate **0.94 kg (or 2.07 lbs) of CO² emissions** to the atmosphere. That means that it takes nearly **8 tons of coal** to be burnt daily to produce enough power to match our current solar capacity and more than **16 tons, daily**, to match our total production by the end of 2018.

8

 tons of coal to be burnt per day

Eva-Last® would need 8 tons of coal to be burnt daily to produce enough power to match our current solar capacity More than **16 tons daily**, would be needed by the end of 2019.

43 tons

 of CO² emissions **SAVED per day**

Using the above averages, this translates into an approximate total 43 tons of CO² emissions, per day that we will stop going into the atmosphere, while at the same time no trees are required to be cut down to produce our "timber" products and with the advances we have made in the technology, our products can do anything timber can do an more. By the end of 2020 we will be completely carbon negative and actually be putting a few hundred kwh of energy back into the grid.

ONE WORLD, TWO FUTURES

Atmospheric concentrations of CO₂ are 37% higher than they have been at any time in the past 650,000 years.

In one future the international community and majority of countries continue burning fossil fuels and cutting down trees ultimately leading to catastrophic climate change. Our forests and coral reefs are destroyed, poverty increases, food supply dwindles and the global economy collapses.



In the other future the global community has adopted renewable energy and green products that can help to save our rainforests and oceans. Solutions are created for cleaning our oceans and recycling waste plastics. The global community prospers, poverty is reduced and earth has time to heal.

THERE IS NO PLANET B

Help us to make people and businesses aware of the dangers we face in today's world. Only if we make a stand together can we achieve the healthy future our children deserve.



WHY WE DO IT

Our hope that these initiatives not only have a positive impact to the problems we face, but that it also brings to attention how much CO² is being dumped into the atmosphere and just how real these problems are. It is also our hope that this highlights just how important it is for us to protect our natural resources and find alternative ways of achieving the same or a better outcome while doing so.



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THANK YOU

If you are passionate about any of the above causes, please feel free to contact Eva-Last® and see how you too can help make a difference.

For more information:

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