

eva-last®

INSPIRED BY NATURE, DESIGNED FOR LIFE.



Hybrid architectural system

CE



Intertek

ALCOTRUS
ALUMINIUM ARCHITECTURAL FRAMEWORK

www.eva-last.com

ALCOTRUS

ALUMINIUM ARCHITECTURAL FRAMEWORK



500 years ago roughly 60% of the Earth was covered in forests. Now, there is less than 10% of our rainforests left.

Forests are being destroyed for their precious timber for use as building products. Today with modern technology we are now able to create products that accurately resemble wood and can even out perform wood with regard to weather resistance. Eva-Last® has always been aware of this issue and sees an opportunity to create forest friendly alternatives to timber that would help to diminish the demand for tropical hardwoods.

Alcotrus™ is highly versatile and offers long lasting and eco-friendly alternatives for pergolas, cladding, screening, railing and other decorative architectural showpieces.



Why choose Alcotrus™

Alcotrus™ is an architectural system that combines Eva-Last®'s composite technologies with lightweight structural components. The surface appearance of Alcotrus™ is similar to natural timber but without the drawbacks. Alcotrus™ is super sustainable and has an ultra low carbon footprint compared to wood and other composites.

Extruded aluminium profiles make up the structural skeleton of the Alcotruss beams. The subsequent co-extrusion of a layer of Eva-tech composite with an adhesive furnishes these beams with a protective aesthetic finish.



Reinforced composite

The aluminium core and the extrusion process ensures the products have dimensional stability and flexural performance that far surpasses equivalent timber profiles.

Modulus of rupture (MOR): 60.0 MPa

Modulus of elasticity (MOE): 1.1 GPa



Weather resistant

Aluminium is a relatively durable structural material. The secondary barrier, provided by the highly weather-resistant layer of Eva-tech composite, further protects the structural skeleton of the Alcotruss framework. The resultant products are long-lasting and low-maintenance.



Modular system

The hollow-core cross-section of each beam provides distinct opportunities for efficient and seamless connections, both between Alcotruss members and other architectural products.



Versatile application

The material make-up, hollow-core profile, and reduced mass of the Alcotruss framework provide an abundance of application opportunities and methods with which to install or connect the products.



Lightweight system

Aluminium is well known for its lightweight, high-strength properties. By utilising an aluminium skeleton, and employing profiles with large voids, the Alcotruss system attempts to optimise the strength-weight relationship so as to reduce production, transport and construction costs.



Biodegradation resistant

Both the aluminium and Eva-tech materials are highly resistant to attack by organisms, such as termites, and microorganisms, such as fungi and bacteria.



GO GREEN

It is vital for us all to protect our natural resources, we must make an effort and work to develop alternative options to timber in the building and architectural landscape.



Made with recycled materials



Solar energy utilised



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Reinforced modular composite

Unprecedented span

The Alcotrus™ aluminum skeleton significantly enhances dimensional and flexural stability. A modified copolymer adhesive incorporated in a tri-extrusion process ensures robust bonds between the different elements. The cap, our engineered composite, completes the system providing an aesthetic finish, resistant to severe climatic and biodeterioration conditions.

- 1 Aluminum core
- 2 Engineered flexible adhesive
- 3 *Eva-tech*  composite coat



Alcotrus™ offers a 10 year warranty and has been designed to meet industrial norms, however, building codes and standards may differ between jurisdiction or countries, be sure to consult your local building codes when using Alcotrus™.



102.5 x 32.5 x 5 800



150 x 50 x 5 800

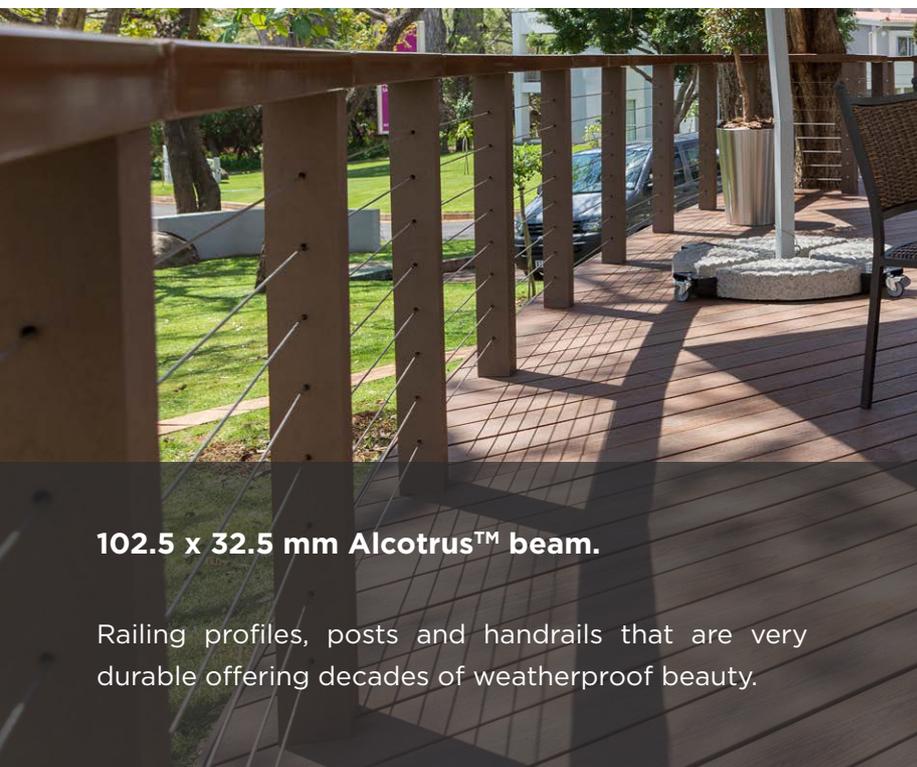




150 x 50 mm Alcotrus™ beam.

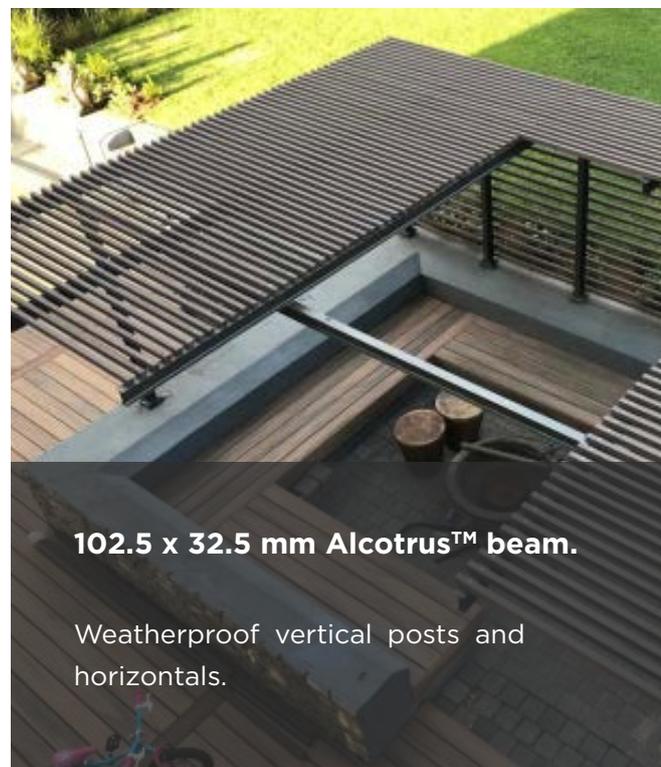
Alcotrus™ offers a perfect pergola system that is lightweight, needs no reinforcement and is easy to install.

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102.5 x 32.5 mm Alcotrus™ beam.

Railing profiles, posts and handrails that are very durable offering decades of weatherproof beauty.



102.5 x 32.5 mm Alcotrus™ beam.

Weatherproof vertical posts and horizontals.

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